

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 | |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|-------------------------|------------------------------|
| Responsible Party | OGRID |
| Contact Name | Contact Telephone |
| Contact email | Incident # (assigned by OCD) |
| Contact mailing address | |

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|-------------------------|----------------------|
| Site Name | Site Type |
| Date Release Discovered | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| | | | | |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

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

Cause of Release

State of New Mexico
Oil Conservation Division

Page 2

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

| | |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

| | |
|--|------------------|
| <input type="checkbox"/> The source of the release has been stopped. | |
| <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. | |
| <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. | |
| <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name: _____ | Title: _____ |
| Signature: <u>Patricia Zapanta</u> | Date: _____ |
| email: _____ | Telephone: _____ |
| <u>OCD Only</u> | |
| Received by: _____ | Date: _____ |

| Spill Calculation - Subsurface Spill - Rectangle | | | | | | | | Remediation Recommendation | |
|--|------|------|-----|--------|--------|------|--------|---|---|
| <div> <div>Received by OCD: 7/2/2024 1:25:06 PM</div> <div> <div>Convert Irregular shape into a series of rectangles</div> <div>Length (ft.)</div> <div>Width (ft.)</div> <div>Average Depth (in.)</div> <div>On/Off Pad (dropdown)</div> <div>Soil Spilled-Fluid Saturation (%)</div> <div>Estimated volume of each area (bbl.)</div> <div>Total Estimated Volume of Spill (bbl.)</div> </div> </div> | | | | | | | | Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .) | <div>Page 3 of 41</div> <div>Current Rule of Thumb - RMR Handover Volume, (yd³.)</div> |
| Rectangle A | 40.0 | 25.0 | 0.1 | On-Pad | 10.50% | 1.48 | 0.16 | 0.39 | 750 |
| Rectangle B | | | | | | 0.00 | | 0.00 | |
| Rectangle C | | | | | | 0.00 | | 0.00 | |
| Rectangle D | | | | | | 0.00 | | 0.00 | |
| Rectangle E | | | | | | 0.00 | | 0.00 | |
| Rectangle F | | | | | | 0.00 | | 0.00 | |
| Rectangle G | | | | | | 0.00 | | 0.00 | |
| Rectangle H | | | | | | 0.00 | | 0.00 | |
| Rectangle I | | | | | | 0.00 | | 0.00 | |
| Rectangle J | | | | | | 0.00 | | 0.00 | |
| Total Subsurface Volume Released: | | | | | | | 0.1558 | 0.39 | BU |
| Released to Imaging: 8/1/2024 8:40:58 AM | | | | | | | | | |



June 27, 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: Reclamation Report
Aircobra 12 State 002H
Incident Number NAPP2317133599
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared the following *Reclamation Report* for the Aircobra 12 State 002H (Site). This *Reclamation Report* documents the Site history and reclamation activities completed to date.

BACKGROUND

The Site is located in Unit B, Section 12, Township 19 South, Range 34 East, in Lea County, New Mexico (32.6803°, -103.5115°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO).

On June 11, 2023, an equipment malfunction caused approximately 0.1558 barrels (bbls) of crude oil to be sent to the flare. The crude oil ignited and extinguished itself after reaching the surface of the well pad. COG 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 June 20, 2023. The release was assigned Incident Number NAPP2317133599.

Since the release remained on the active well pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

Delineation and excavation of impacted soil was completed at the Site between June 2023 and August 2023. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on September 7, 2023. The NMOCD approved the *Closure Request* on December 29, 2023. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request*. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

COG Operating, LLC
Reclamation Report
Aircobra 12 State 002H

RECLAMATION ACTIVITIES

The excavation area measured approximately 3,277 square feet. A total of 180 cubic yards of impacted and waste-containing soil were removed during excavation activities. Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled and restored to its original condition. The excavation was backfilled with caliche. Following backfill activities, the disturbed area was graded and contoured to match the surrounding topography. Since the release remained on the active well pad, revegetation was not required. The excavation extent and reclamation area are shown on the attached Figure 1. Photographic documentation is included in Appendix A.

One representative 5-point composite sample (BF01) was collected from the backfill material. The backfill soil sample was transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (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 300.0.

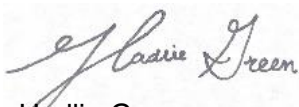
Laboratory analytical results for the backfill soil sample confirmed compliance with NMOCDC requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg) and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1 and the complete laboratory analytical report is included as Appendix B.

RECLAMATION APPROVAL REQUEST

Based on the reclamation activities completed to date, COG respectfully requests approval of this *Reclamation Report* and a status update to *Incident Closure Approved* for Incident NAPP2317133599.

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

cc: Jacob Laird, COG Operating, LLC
New Mexico State Land Office





Appendices:

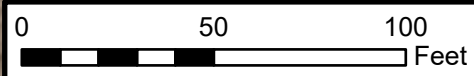
| | |
|------------|---|
| Figure 1 | Excavation Extent / Reclamation Area |
| Table 1 | Backfill Soil Sample Analytical Results |
| Appendix A | Photographic Log |
| Appendix B | Laboratory Analytical Report |



FIGURES

Legend

-  Point of Release
-  Earthen Berm
-  Surface Steel Line
-  Excavation Extent / Reclamation Area



Source:
Bing Maps



Excavation Extent / Reclamation Area

COG Operating, LLC
Aircobra 12 State 002H
Incident Number: NAPP2317133599

Unit B, Section 12, T19S, R34E
Lea County, New Mexico

FIGURE

1



TABLES



| TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Aircobra 12 State 002H COG Operating, LLC Lea County, New Mexico | | | | | | | | | | |
|---|------------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| Sample Designation | Date | 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 Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Backfill Soil Sample | | | | | | | | | | |
| BF01 | 05/30/2024 | N/A | <0.00199 | 0.0417 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 507 |

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**GRO: Gasoline Range Organics**DRO: Diesel Range Organics**ORO: Oil Range Organics**TPH: Total Petroleum Hydrocarbon**Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*



APPENDIX A

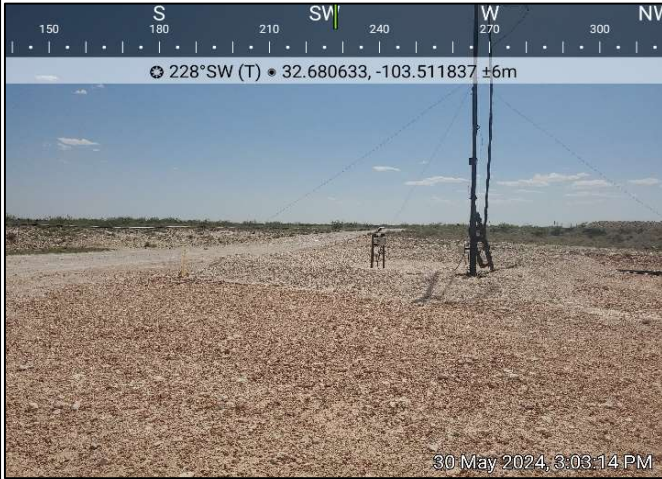
Photographic Log

**Photographic Log**

COG Operating, LLC

Aircobra 12 State 002H

Incident Number NAPP2317133599



Photograph: 1
Description: Backfilled area
View: Southwest

Date: 5/30/2024



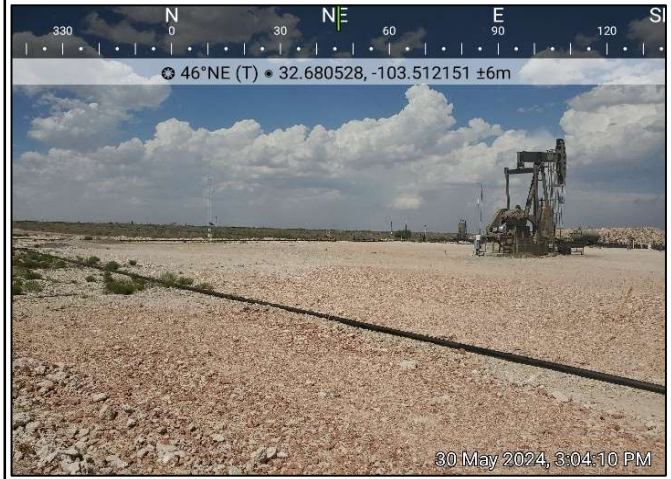
Photograph: 2
Description: Backfilled area
View: North

Date: 5/30/2024



Photograph: 3
Description: Backfilled area
View: South

Date: 5/30/2024



Photograph: 4
Description: Backfilled area
View: Northeast

Date: 5/30/2024



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 6/7/2024 2:49:03 PM

JOB DESCRIPTION

AIRCOBRA 12 STATE 2H
03D2024201

JOB NUMBER

890-6733-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.
Released to Imaging: 8/7/2024 6:40:58 AM



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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6/7/2024 2:49:03 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Laboratory Job ID: 890-6733-1
SDG: 03D2024201

Table of Contents

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Definitions/Glossary

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Ensolum
Project: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1

Job ID: 890-6733-1

Eurofins Carlsbad

Job Narrative
890-6733-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 5/31/2024 4:28 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BF 01 (890-6733-1).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-82244 and analytical batch 880-82547 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-82244/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The method blank for preparation batch 880-82244 and analytical batch 880-82547 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-82262 and analytical batch 880-82299 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

Client Sample ID: BF 01
Date Collected: 05/30/24 14:58
Date Received: 05/31/24 16:28

Lab Sample ID: 890-6733-1
Matrix: Solid

| Method: SW846 8021B - Volatile Organic Compounds (GC) | | | | | | | | | |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 06/03/24 09:47 | 06/03/24 17:29 | 1 | |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 06/03/24 09:47 | 06/03/24 17:29 | 1 | |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 06/03/24 09:47 | 06/03/24 17:29 | 1 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 06/03/24 09:47 | 06/03/24 17:29 | 1 | |
| o-Xylene | 0.0417 | | 0.00199 | mg/Kg | | 06/03/24 09:47 | 06/03/24 17:29 | 1 | |
| Xylenes, Total | 0.0417 | | 0.00398 | mg/Kg | | 06/03/24 09:47 | 06/03/24 17:29 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | | 06/03/24 09:47 | 06/03/24 17:29 | 1 | |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | | | 06/03/24 09:47 | 06/03/24 17:29 | 1 | |

| Method: TAL SOP Total BTEX - Total BTEX Calculation | | | | | | | | | |
|---|--------|-----------|---------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Total BTEX | 0.0417 | | 0.00398 | mg/Kg | | | 06/03/24 17:29 | 1 | |

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 06/06/24 14:11 | 1 | |

| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 06/03/24 19:14 | 06/06/24 14:11 | 1 | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 | 49.9 | mg/Kg | | 06/03/24 19:14 | 06/06/24 14:11 | 1 | |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 06/03/24 19:14 | 06/06/24 14:11 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1-Chlorooctane | 84 | | 70 - 130 | | | 06/03/24 19:14 | 06/06/24 14:11 | 1 | |
| o-Terphenyl | 76 | | 70 - 130 | | | 06/03/24 19:14 | 06/06/24 14:11 | 1 | |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 507 | | 25.1 | mg/Kg | | | 06/04/24 19:39 | 5 | |

Surrogate Summary

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-44158-A-1-J MS | Matrix Spike | 104 | 97 |
| 880-44158-A-1-K MSD | Matrix Spike Duplicate | 103 | 98 |
| 890-6733-1 | BF 01 | 106 | 93 |
| LCS 880-82124/1-A | Lab Control Sample | 103 | 98 |
| LCSD 880-82124/2-A | Lab Control Sample Dup | 102 | 97 |
| MB 880-82124/5-A | Method Blank | 105 | 91 |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)
Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|----------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-6733-1 | BF 01 | 84 | 76 |
| 890-6733-1 MS | BF 01 | 86 | 85 |
| 890-6733-1 MSD | BF 01 | 88 | 86 |
| LCS 880-82244/2-A | Lab Control Sample | 126 | 133 S1+ |
| LCSD 880-82244/3-A | Lab Control Sample Dup | 107 | 113 |
| MB 880-82244/1-A | Method Blank | 109 | 112 |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

Method: 8021B - Volatile Organic Compounds (GC)

| Lab Sample ID: MB 880-82124/5-A | | | | | Client Sample ID: Method Blank | | | | |
|---------------------------------|--------------|--------------|----------|-------|--------------------------------|----------------|----------------|---------|--|
| Matrix: Solid | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 82131 | | | | | Prep Batch: 82124 | | | | |
| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 06/02/24 17:55 | 06/03/24 11:52 | 1 | |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 06/02/24 17:55 | 06/03/24 11:52 | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 06/02/24 17:55 | 06/03/24 11:52 | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 06/02/24 17:55 | 06/03/24 11:52 | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 06/02/24 17:55 | 06/03/24 11:52 | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 06/02/24 17:55 | 06/03/24 11:52 | 1 | |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | | 06/02/24 17:55 | 06/03/24 11:52 | 1 | |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 | | | 06/02/24 17:55 | 06/03/24 11:52 | 1 | |

| | | | | | | | | | | | |
|----------------------------------|--|-----------|-----------|----------|--------------------------------------|-------|---|------|----------|--|--|
| Lab Sample ID: LCS 880-82124/1-A | | | | | Client Sample ID: Lab Control Sample | | | | | | |
| Matrix: Solid | | | | | Prep Type: Total/NA | | | | | | |
| Analysis Batch: 82131 | | | | | Prep Batch: 82124 | | | | | | |
| | | | Spike | LCS | LCS | | | | %Rec | | |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Benzene | | | 0.100 | 0.1090 | | mg/Kg | | 109 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1006 | | mg/Kg | | 101 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1068 | | mg/Kg | | 107 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.2137 | | mg/Kg | | 107 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1071 | | mg/Kg | | 107 | 70 - 130 | | |
| | | | | | | | | | | | |
| | | | LCS | LCS | | | | | | | |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | | | |
| 4-Bromofluorobenzene (Surr) | | 103 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | | 98 | | 70 - 130 | | | | | | | |

| | | | | | | | | | | |
|-----------------------------------|----------------|----------------|-------------|----------------|-------|--|------|-------------|-----|-------|
| Lab Sample ID: LCSD 880-82124/2-A | | | | | | Client Sample ID: Lab Control Sample Dup | | | | |
| Matrix: Solid | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 82131 | | | | | | Prep Batch: 82124 | | | | |
| Analyte | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
| Benzene | | 0.100 | 0.09595 | | mg/Kg | | 96 | 70 - 130 | 13 | 35 |
| Toluene | | 0.100 | 0.08851 | | mg/Kg | | 89 | 70 - 130 | 13 | 35 |
| Ethylbenzene | | 0.100 | 0.09115 | | mg/Kg | | 91 | 70 - 130 | 16 | 35 |
| m-Xylene & p-Xylene | | 0.200 | 0.1850 | | mg/Kg | | 93 | 70 - 130 | 14 | 35 |
| o-Xylene | | 0.100 | 0.09510 | | mg/Kg | | 95 | 70 - 130 | 12 | 35 |
| | | | | | | | | | | |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | | | | | |

| | | | | | | | | | |
|-----------------------------------|---------------|------------------|-------------|-----------|--------------|--------------------------------|---|------|-------------|
| Lab Sample ID: 880-44158-A-1-J MS | | | | | | Client Sample ID: Matrix Spike | | | |
| Matrix: Solid | | | | | | Prep Type: Total/NA | | | |
| Analysis Batch: 82131 | | | | | | Prep Batch: 82124 | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
| Benzene | <0.00199 | U | 0.0996 | 0.09896 | | mg/Kg | | 99 | 70 - 130 |
| Toluene | <0.00199 | U | 0.0996 | 0.08997 | | mg/Kg | | 90 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-44158-A-1-J MS
Matrix: Solid
Analysis Batch: 82131

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 82124

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00199 | U | 0.0996 | 0.09477 | | mg/Kg | | 95 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.199 | 0.1894 | | mg/Kg | | 95 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.0996 | 0.09560 | | mg/Kg | | 96 | 70 - 130 |
| | | | | | | | | | |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | | | | |

Lab Sample ID: 880-44158-A-1-K MSD
Matrix: Solid
Analysis Batch: 82131

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 82124

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00199 | U | 0.101 | 0.1145 | | mg/Kg | | 114 | 70 - 130 | 15 | 35 |
| Toluene | <0.00199 | U | 0.101 | 0.1051 | | mg/Kg | | 104 | 70 - 130 | 16 | 35 |
| Ethylbenzene | <0.00199 | U | 0.101 | 0.1115 | | mg/Kg | | 111 | 70 - 130 | 16 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.202 | 0.2229 | | mg/Kg | | 111 | 70 - 130 | 16 | 35 |
| o-Xylene | <0.00199 | U | 0.101 | 0.1114 | | mg/Kg | | 111 | 70 - 130 | 15 | 35 |
| | | | | | | | | | | | |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | | | | | | | | |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-82244/1-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 82244

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|--------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 06/03/24 19:14 | 06/06/24 10:28 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 06/03/24 19:14 | 06/06/24 10:28 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 06/03/24 19:14 | 06/06/24 10:28 | 1 |
| | | | | | | | | |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | | |
| 1-Chlorooctane | 109 | | 70 - 130 | | | | | |
| o-Terphenyl | 112 | | 70 - 130 | | | | | |

Lab Sample ID: LCS 880-82244/2-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 82244

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1270 | | mg/Kg | | 127 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1232 | | mg/Kg | | 123 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-82244/2-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 82244

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 126 | | 70 - 130 |
| o-Terphenyl | 133 | S1+ | 70 - 130 |

Lab Sample ID: LCSD 880-82244/3-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 82244

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1068 | | mg/Kg | | 107 | 70 - 130 | 17 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1022 | | mg/Kg | | 102 | 70 - 130 | 19 | 20 |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 107 | | 70 - 130 |
| o-Terphenyl | 113 | | 70 - 130 |

Lab Sample ID: 890-6733-1 MS
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: BF 01
Prep Type: Total/NA
Prep Batch: 82244

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 997 | 703.8 | | mg/Kg | | 71 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 | 997 | 695.4 | F1 | mg/Kg | | 67 | 70 - 130 |

| | MS | MS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 86 | | 70 - 130 |
| o-Terphenyl | 85 | | 70 - 130 |

Lab Sample ID: 890-6733-1 MSD
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: BF 01
Prep Type: Total/NA
Prep Batch: 82244

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 997 | 753.8 | | mg/Kg | | 76 | 70 - 130 | 7 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 | 997 | 729.0 | | mg/Kg | | 71 | 70 - 130 | 5 | 20 |

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 88 | | 70 - 130 |
| o-Terphenyl | 86 | | 70 - 130 |

QC Sample Results

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

Method: 300.0 - Anions, Ion Chromatography

| | | | | | | | | | | | |
|---|-----------|--------------|------|-------|---|----------|----------------|---------|--|--|--|
| Lab Sample ID: MB 880-82262/1-A Matrix: Solid Analysis Batch: 82299 | | | | | | | | | | Client Sample ID: Method Blank Prep Type: Soluble | |
| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | | |
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 06/04/24 17:12 | 1 | | | |

| | | | | | | | | | | | |
|--|--|--|-------------|------------|---------------|-------|---|------|-------------|--|--|
| Lab Sample ID: LCS 880-82262/2-A Matrix: Solid Analysis Batch: 82299 | | | | | | | | | | Client Sample ID: Lab Control Sample Prep Type: Soluble | |
| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
| Chloride | | | 250 | 246.9 | | mg/Kg | | 99 | 90 - 110 | | |

| | | | | | | | | | | | |
|---|--|--|-------------|-------------|----------------|-------|---|------|-------------|--|-----------|
| Lab Sample ID: LCSD 880-82262/3-A Matrix: Solid Analysis Batch: 82299 | | | | | | | | | | Client Sample ID: Lab Control Sample Dup Prep Type: Soluble | |
| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
| Chloride | | | 250 | 247.5 | | mg/Kg | | 99 | 90 - 110 | 0 | 20 |

| | | | | | | | | | | | |
|--|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|--|--|
| Lab Sample ID: 880-44181-A-17-C MS Matrix: Solid Analysis Batch: 82299 | | | | | | | | | | Client Sample ID: Matrix Spike Prep Type: Soluble | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
| Chloride | 933 | F1 | 249 | 1228 | F1 | mg/Kg | | 118 | 90 - 110 | | |

| | | | | | | | | | | | |
|---|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|--|-----------|
| Lab Sample ID: 880-44181-A-17-D MSD Matrix: Solid Analysis Batch: 82299 | | | | | | | | | | Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
| Chloride | 933 | F1 | 249 | 1226 | F1 | mg/Kg | | 118 | 90 - 110 | 0 | 20 |

QC Association Summary

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

GC VOA

Prep Batch: 82124

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-6733-1 | BF 01 | Total/NA | Solid | 5035 | |
| MB 880-82124/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-82124/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-82124/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-44158-A-1-J MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-44158-A-1-K MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 82131

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-6733-1 | BF 01 | Total/NA | Solid | 8021B | 82124 |
| MB 880-82124/5-A | Method Blank | Total/NA | Solid | 8021B | 82124 |
| LCS 880-82124/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 82124 |
| LCSD 880-82124/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 82124 |
| 880-44158-A-1-J MS | Matrix Spike | Total/NA | Solid | 8021B | 82124 |
| 880-44158-A-1-K MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 82124 |

Analysis Batch: 82282

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-6733-1 | BF 01 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 82244

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-6733-1 | BF 01 | Total/NA | Solid | 8015NM Prep | |
| MB 880-82244/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-82244/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-82244/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-6733-1 MS | BF 01 | Total/NA | Solid | 8015NM Prep | |
| 890-6733-1 MSD | BF 01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 82547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6733-1 | BF 01 | Total/NA | Solid | 8015B NM | 82244 |
| MB 880-82244/1-A | Method Blank | Total/NA | Solid | 8015B NM | 82244 |
| LCS 880-82244/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 82244 |
| LCSD 880-82244/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 82244 |
| 890-6733-1 MS | BF 01 | Total/NA | Solid | 8015B NM | 82244 |
| 890-6733-1 MSD | BF 01 | Total/NA | Solid | 8015B NM | 82244 |

Analysis Batch: 82674

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-6733-1 | BF 01 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 82262

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6733-1 | BF 01 | Soluble | Solid | DI Leach | |
| MB 880-82262/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-82262/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-82262/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

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QC Association Summary

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

HPLC/IC (Continued)

Leach Batch: 82262 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-44181-A-17-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-44181-A-17-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 82299

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-6733-1 | BF 01 | Soluble | Solid | 300.0 | 82262 |
| MB 880-82262/1-A | Method Blank | Soluble | Solid | 300.0 | 82262 |
| LCS 880-82262/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 82262 |
| LCSD 880-82262/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 82262 |
| 880-44181-A-17-C MS | Matrix Spike | Soluble | Solid | 300.0 | 82262 |
| 880-44181-A-17-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 82262 |

Lab Chronicle

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

Client Sample ID: BF 01

Lab Sample ID: 890-6733-1

Date Collected: 05/30/24 14:58

Matrix: Solid

Date Received: 05/31/24 16:28

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 82124 | 06/03/24 09:47 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 82131 | 06/03/24 17:29 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 82282 | 06/03/24 17:29 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 82674 | 06/06/24 14:11 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 82244 | 06/03/24 19:14 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 82547 | 06/06/24 14:11 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 82262 | 06/04/24 10:09 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 82299 | 06/04/24 19:39 | CH | EET MID |

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|-----------------|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

Method Summary

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

| Method | Method Description | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: AIRCOBRA 12 STATE 2H

Job ID: 890-6733-1
SDG: 03D2024201

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 890-6733-1 | BF 01 | Solid | 05/30/24 14:58 | 05/31/24 16:28 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 544-4776

Chain of Custody

Work Order No: _____

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Work Order Comments

am: USTPST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
of Project:

ring: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Verifiables: EDD ☐ ADAPT ☐ Other: _____



890-6733 Chain of Custody

| | | | |
|------------------|-------------------------|-------------------------|--------------------|
| Project Manager: | Hadlie Green | Bill to: (if different) | |
| Company Name: | Ensolum | Company Name: | |
| Address: | 3122 National Parks Hwy | Address: | |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | |
| Phone: | 432-557-8895 | Email: | hgreen@ensolum.com |

| | | | |
|-------------------|----------------------|---|--|
| Project Name: | Aircobra 12 State 2H | Turn Around | |
| Project Number: | 03D2024201 | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | |
| Project Location: | | Due Date: | |
| Sampler's Name: | Kaoru Shimada | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | | | |

| | | | | | | |
|----------------|-------------|---|-----------------|---|----------|---|
| SAMPLE RECEIPT | Temp Blank: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
|----------------|-------------|---|-----------------|---|----------|---|

| | | | | | |
|--------------------------|---|-----------------|---|----------|---|
| Samples Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Total Containers: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

| | | | | | | |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|

| | | | | | | |
|------|------|-----------|------|-----|------|---|
| BF01 | Soil | 5/30/2024 | 1458 | N/A | Comp | 1 |
|------|------|-----------|------|-----|------|---|

Parameters

| | | | | | | |
|-------------------|---|--|--|--|--|--|
| CHLORIDES (4500) | X | | | | | |
| TPH (8015M) | X | | | | | |
| BTEX (8021) | X | | | | | |
| RCI | | | | | | |
| Paint Filter Test | | | | | | |
| TCLP | | | | | | |
| VOC | | | | | | |
| SVOC | | | | | | |

| | | |
|--------------------|---|----------------------------|
| Preservative Codes | None: NO | DI Water: H ₂ O |
| | Cool: Cool | MeOH: Me |
| | HCL: HC | HNO ₃ : HN |
| | H ₂ SO ₄ : H ₂ | NaOH: Na |
| | H ₃ PO ₄ : HP | |
| | NaHSO ₄ : NABIS | |
| | Na ₂ S ₂ O ₃ : NaSO ₃ | |
| | Zn Acetate+NaOH: Zn | |
| | NaOH+Ascorbic Acid: SAPC | |

Sample Comments

Incident ID:

Cost Center:

AEE:

| | | | | |
|--------------------|---------------|-------------|----------|---|
| Total 200.7 / 6010 | 200.8 / 6020: | 8RCRA 13PPM | Texas 11 | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn |
|--------------------|---------------|-------------|----------|---|

| | | |
|--|--|--------------------------------|
| Circle Method(s) and Metal(s) to be analyzed | TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | Hg: 1631 / 245.1 / 7470 / 7471 |
|--|--|--------------------------------|

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| | | | | | |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 5/31/24 | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6733-1

SDG Number: 03D2024201

Login Number: 6733

List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

| Question | Answer | Comment |
|--|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | N/A | Refer to Job Narrative for details. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6733-1

SDG Number: 03D2024201

Login Number: 6733

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 06/03/24 09:39 AM

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

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

QUESTIONS

Action 360563

QUESTIONS

| | |
|---|----------------|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: |
| | 229137 |
| | Action Number: |
| | 360563 |
| Action Type: | |
| [C-141] Reclamation Report C-141 (C-141-v-Reclamation) | |

QUESTIONS

| | |
|-------------------|---|
| Prerequisites | |
| Incident ID (n#) | nAPP2317133599 |
| Incident Name | NAPP2317133599 AIRCOBRA 12 STATE 002H @ 0 |
| Incident Type | Oil Release |
| Incident Status | Reclamation Report Received |
| Incident Facility | [fAPP2202547670] AIR COBRA 12 ST #2H |

| | |
|--|------------------------|
| Location of Release Source | |
| Please answer all the questions in this group. | |
| Site Name | AIRCOBRA 12 STATE 002H |
| Date Release Discovered | 06/11/2023 |
| Surface Owner | State |

| | |
|--|-------------|
| 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: Equipment Failure Dump Valve Crude Oil Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL. |
| Produced Water Released (bbls) Details | Not answered. |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| 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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QUESTIONS, Page 2

Action 360563

QUESTIONS (continued)

| | |
|---|----------------|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: |
| | 229137 |
| | Action Number: |
| | 360563 |
| Action Type: | |
| [C-141] Reclamation Report C-141 (C-141-v-Reclamation) | |

QUESTIONS

| Nature and Volume of Release (continued) | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | More info needed to determine if this will be treated as a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | Unavailable. |
| Reasons why this would be considered a submission for a notification of a major release | Unavailable. |
| 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 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. |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/02/2024 |
|--|---|

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QUESTIONS, Page 3

Action 360563

QUESTIONS (continued)

| | |
|---|----------------|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: |
| | 229137 |
| | Action Number: |
| | 360563 |
| Action Type: | |
| [C-141] Reclamation Report C-141 (C-141-v-Reclamation) | |

QUESTIONS

| | |
|--|--------------------------------|
| Site Characterization | |
| <i>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.</i> | |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 75 and 100 (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 200 and 300 (ft.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Greater than 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between ½ and 1 (mi.) |
| Any other fresh water well or spring | Between ½ and 1 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 500 and 1000 (ft.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Greater than 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | None |
| A 100-year floodplain | Greater than 5 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

| | |
|---|------------|
| Remediation Plan | |
| <i>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.</i> | |
| Requesting a remediation plan approval with this submission | Yes |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i> | |
| Have the lateral and vertical extents of contamination been fully delineated | 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) | 1080 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 6220 |
| GRO+DRO (EPA SW-846 Method 8015M) | 6220 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 |
| <i>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> | |
| On what estimated date will the remediation commence | 06/22/2023 |
| On what date will (or did) the final sampling or liner inspection occur | 08/08/2023 |
| On what date will (or was) the remediation complete(d) | 08/08/2023 |
| What is the estimated surface area (in square feet) that will be reclaimed | 3277 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 180 |
| What is the estimated surface area (in square feet) that will be remediated | 3277 |
| What is the estimated volume (in cubic yards) that will be remediated | 180 |
| <i>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.</i> | |
| <i>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.</i> | |

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QUESTIONS, Page 4

Action 360563

QUESTIONS (continued)

| | | |
|---|----------------|--|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: | 229137 |
| | Action Number: | 360563 |
| | Action Type: | [C-141] Reclamation Report C-141 (C-141-v-Reclamation) |
| | | |

QUESTIONS

| | |
|--|---|
| Remediation Plan (continued) | |
| <i>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.</i> | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | |
| <i>(Select all answers below that apply.)</i> | |
| (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 | R360 ARTESIA LLC LANDFARM [FEEM0112340644] |
| 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) | No |
| (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. |
| <i>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> | |
| 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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/02/2024 |
| <i>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.</i> | |

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QUESTIONS, Page 5

Action 360563

QUESTIONS (continued)

| | |
|---|--|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: 229137 |
| | Action Number: 360563 |
| | Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

QUESTIONS

| | |
|---|----|
| Deferral Requests Only | |
| <i>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.</i> | |
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

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QUESTIONS, Page 6

Action 360563

QUESTIONS (continued)

| | |
|---|----------------|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: |
| | 229137 |
| | Action Number: |
| | 360563 |
| Action Type: | |
| [C-141] Reclamation Report C-141 (C-141-v-Reclamation) | |

QUESTIONS

| Sampling Event Information | |
|---|------------|
| Last sampling notification (C-141N) recorded | 360568 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 07/14/2023 |
| What was the (estimated) number of samples that were to be gathered | 5 |
| What was the sampling surface area in square feet | 1 |

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 | 3277 |
| What was the total volume (cubic yards) remediated | 180 |
| 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 | 3277 |
| What was the total volume (in cubic yards) reclaimed | 180 |
| 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.

| | |
|--|---|
| I hereby agree and sign off to the above statement | Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/02/2024 |
|--|---|

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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 360563

QUESTIONS (continued)

| | |
|---|--|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: |
| | 229137 |
| | Action Number: |
| | 360563 |
| | Action Type: |
| | [C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

QUESTIONS**Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

| | |
|--|------|
| Requesting a reclamation approval with this submission | Yes |
| What was the total reclamation surface area (in square feet) for this site | 3277 |
| What was the total volume of replacement material (in cubic yards) for this site | 180 |

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

| | |
|--|------------|
| Is the soil top layer complete and is it suitable material to establish vegetation | Yes |
| On what (estimated) date will (or was) the reseeding commence(d) | 12/31/2035 |

| | |
|---|---|
| Summarize any additional reclamation activities not included by answers (above) | On pad release was excavated to the most stringent Closure Criteria and backfilled with non-waste containing soil |
|---|---|

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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.

| | |
|--|---|
| I hereby agree and sign off to the above statement | Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/02/2024 |
|--|---|

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QUESTIONS, Page 8

Action 360563

QUESTIONS (continued)

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|---|--|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: 229137 |
| | Action Number: 360563 |
| | Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

QUESTIONS

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|---|----|
| Revegetation Report | |
| <i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i> | |
| Requesting a restoration complete approval with this submission | No |
| <i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i> | |

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CONDITIONS

Action 360563

CONDITIONS

| | |
|---|--|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: 229137 |
| | Action Number: 360563 |
| | Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation) |
| | |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| amaxwell | The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. | 8/1/2024 |
| amaxwell | A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. | 8/1/2024 |
| amaxwell | All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved. | 8/1/2024 |