



July 22, 2022

District 1
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Closure Request
MCA 251
Incident Number NAPP2210953241
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the MCA 251 flow line release (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water within the pasture area at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2210953241.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 21, Township 17 South, Range 32 East, in Lea County, New Mexico (32.816111° N, 103.770277° W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On April 6, 2022, a flow line leak resulted in the release of approximately 0.95 barrels (bbls) of produced water and 0.05 bbls of crude oil onto the surrounding pasture. Released fluids were not recovered. The previous operator (ConocoPhillips Company) reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on April 19, 2022. The release was assigned Incident Number NAPP2210953241.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) 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 50 feet 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 RA-12521, located approximately 1,013 feet south of the Site. The groundwater well has a reported depth to groundwater

of 92 feet bgs and a total depth of 105 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 2,329 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND EXCAVATION ACTIVITIES

On June 28, 2022, Ensolum personnel were at the Site to oversee site assessment and excavation activities based on information provided on the Form C-141 and visible surface staining observed in the pasture release area. Four lateral delineation soil samples (SS01 through SS04) were collected around the visible release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release.

Stained soil was excavated from the release area as indicated by visible staining and field screening activities. Excavation activities were performed via hand shoveling. To direct excavation activities, soil was field screened for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The excavation was completed to a depth of 1-foot bgs. Photographic documentation is included in Appendix B.

Following removal of stained soil, one (1) 5-point composite soil sample was collected from the floor of the excavation. The 5-point composite sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil sample FS01 was collected from the floor of the excavation at a depth of 1-foot bgs. Due to the shallow 1-foot depth of the excavation, soil from the sidewalls was incorporated into the floor sample. The release extent, delineation soil sample locations, and excavation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The delineation and excavation 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 at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of 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 300.0.

The excavation measured approximately 25 square feet in areal extent. A total of approximately 1 cubic yard of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the excavation floor sample FS01, collected from the final excavation extent and lateral delineation soil samples SS01 through SS04 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirements. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 6, 2022, release of produced water and crude oil. Laboratory analytical results for the excavation soil sample indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirements. Additionally, the release was laterally delineated to the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Maverick will backfill the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

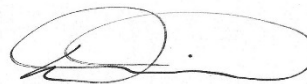
Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be between 51 feet and 100 feet bgs and no sensitive receptors were identified near the release extent. Maverick believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAPP2210953241. The Final C-141 is included in Appendix D.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC



Kalei Jennings
Senior Scientist



Daniel, R. Moir, P.G.
Senior Managing Geologist

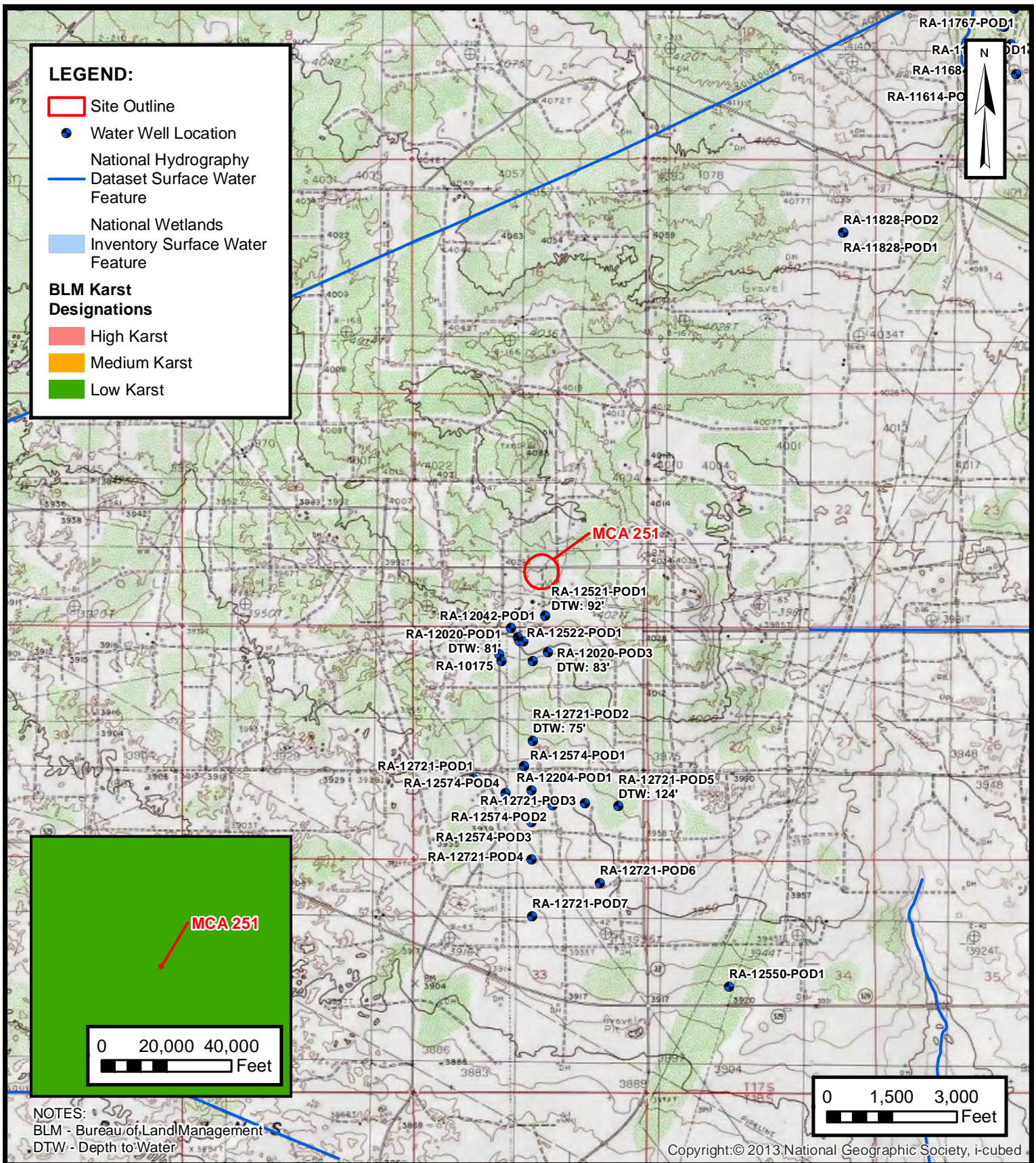
cc: Thomas Haigood, Maverick Natural Resources
Bureau of Land Management

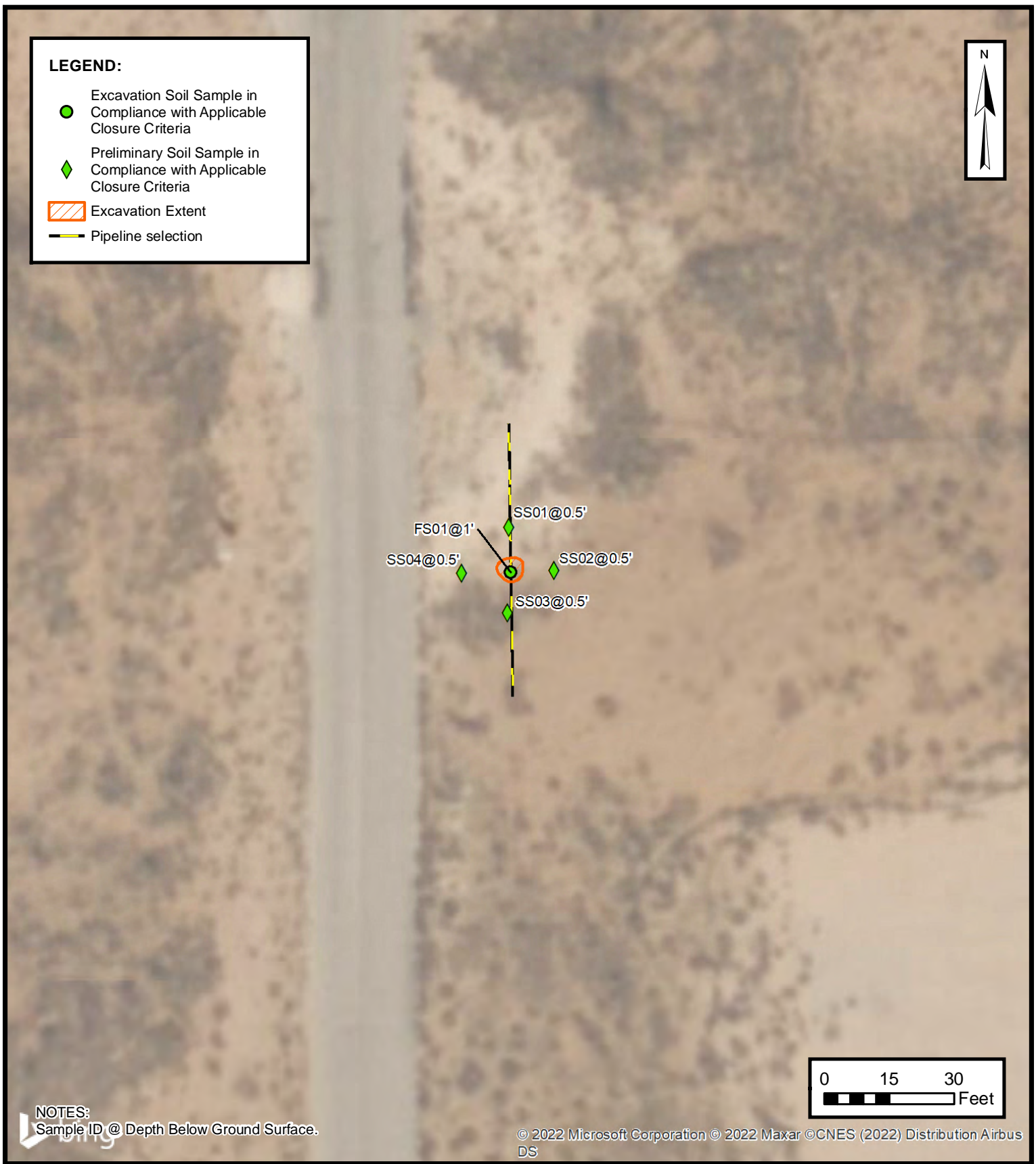
Appendices:

| | |
|------------|--|
| Figure 1 | Site Receptor Map |
| Figure 2 | Soil Sample Locations |
| Table 1 | Soil Sample Analytical Results |
| Appendix A | Referenced Well Records |
| Appendix B | Photographic Log |
| Appendix C | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix D | Final C-141 |
| Appendix E | NMOCD Notifications |



FIGURES







TABLE



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
MCA 251
Maverick Natural Resources, 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 1 Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| Preliminary Assessment Soil Samples | | | | | | | | | | |
| SS01 | 6/28/2022 | 0.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 19.9* |
| SS02 | 6/28/2022 | 0.5 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 16.2* |
| SS03 | 6/28/2022 | 0.5 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 6.40* |
| SS04 | 6/28/2022 | 0.5 | <0.00202 | <0.00404 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 39.3* |
| Excavation Floor Soil Samples | | | | | | | | | | |
| FS01 | 6/28/2022 | 1 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 10.7* |

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

* indicates sample was collected in area to be reclaimed after remediation is complete;
reclamation standard for chloride in the top 4 feet is 600 mg/kg



APPENDIX A

Referenced Well Records




New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)


WR File Number: RA 12521 **Subbasin:** RA **Cross Reference:** -
Primary Purpose: MON MONITORING WELL
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: PHILLIPS 66
Contact: BECKY HESSLEN

Documents on File

| | Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ To | Acres | Diversion | Consumptive |
|--|--------|------|------------|--------|-----|-------------------|-------------|-------|-----------|-------------|
| | | | | 1 | 2 | | | | | |
|  get images | 609310 | EXPL | 2017-06-30 | PMT | LOG | RA 12521 POD1 | T | 0 | 0 | |

Current Points of Diversion

(NAD83 UTM in meters)

| POD Number | Well Tag | Source | Q | | | | | X | Y | Other Location Desc |
|-------------------------------|----------|---------|----|-----|----|-----|-----|-----|--------|---|
| | | | 64 | Q16 | Q4 | Sec | Tws | Rng | | |
| RA 12521 POD1 | | Shallow | 3 | 3 | 4 | 21 | 17S | 32E | 615127 | 3631271  MW-24 |

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.


7/22/22 9:34 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

| | | | | | | | | | |
|----------|---------------|-----|-----|----|-----|-----|-----|--------|---|
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
| | RA 12521 POD1 | 3 | 3 | 4 | 21 | 17S | 32E | 615127 | 3631271  |

| | | | | |
|--------------------------|---------------|-----------------------------|------------------------|-----------------------------|
| Driller License: | 1456 | Driller Company: | WHITE DRILLING COMPANY | |
| Driller Name: | WHITE, JOHN W | | | |
| Drill Start Date: | 07/21/2017 | Drill Finish Date: | 07/26/2017 | Plug Date: |
| Log File Date: | 08/22/2017 | PCW Rcv Date: | | Source: Shallow |
| Pump Type: | | Pipe Discharge Size: | | Estimated Yield: |
| Casing Size: | 2.00 | Depth Well: | 105 feet | Depth Water: 92 feet |

| | | | |
|---------------------------------------|------------|---------------|-------------------------------|
| Water Bearing Stratifications: | Top | Bottom | Description |
| | 85 | 101 | Sandstone/Gravel/Conglomerate |
| | 101 | 105 | Sandstone/Gravel/Conglomerate |

| | | |
|-----------------------------|------------|---------------|
| Casing Perforations: | Top | Bottom |
| | 75 | 105 |

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/21/22 2:22 PM

POINT OF DIVERSION SUMMARY



APPENDIX B

Photographic Log



Photographic Log

Maverick Natural Resources, LLC

MCA 251

Incident Number: NAPP2210953241



Photograph 1

Date: June 21, 2022

Description: View of remediation excavation



Photograph 2

Date: July 21, 2022

Description: View of the remediation excavation.



Photograph 3

Date: June 21, 2022

Description: View of remediation excavation



Photograph 4

Date: June 21, 2022

Description: View of remediation excavation



APPENDIX C

Laboratory Analytical Report



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2486-1

Laboratory Sample Delivery Group: 03D2057007

Client Project/Site: MCA 251

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

7/11/2022 2:22:47 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: MCA 251

Laboratory Job ID: 890-2486-1
SDG: 03D2057007

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Definitions/Glossary

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

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 |
|-----------|---|
| *- | LCS and/or LCSD is outside acceptance limits, low biased. |
| 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/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

Job ID: 890-2486-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2486-1****Receipt**

The samples were received on 6/30/2022 12:58 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28892 and analytical batch 880-28975 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS02 (890-2486-3), SS04 (890-2486-5), (MB 880-28892/1-A) and (890-2484-A-1-D). Evidence of matrix interferences is not obvious.

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: The laboratory control sample (LCS) associated with preparation batch 880-28851 and 880-28851 and analytical batch 880-29230 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Client Sample Results

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

Client Sample ID: FS01

Lab Sample ID: 890-2486-1

Date Collected: 06/28/22 13:45

Matrix: Solid

Date Received: 06/30/22 12:58

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 07/07/22 15:00 | 07/11/22 12:42 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 07/07/22 15:00 | 07/11/22 12:42 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 07/07/22 15:00 | 07/11/22 12:42 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 07/07/22 15:00 | 07/11/22 12:42 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 07/07/22 15:00 | 07/11/22 12:42 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 07/07/22 15:00 | 07/11/22 12:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 12:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 12:42 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 07/11/22 14:44 | 1 |

Method: 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 | | | 07/05/22 13:34 | 1 |

Method: 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 | | 07/01/22 15:11 | 07/04/22 12:18 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 07/01/22 15:11 | 07/04/22 12:18 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 07/01/22 15:11 | 07/04/22 12:18 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 117 | | 70 - 130 | 07/01/22 15:11 | 07/04/22 12:18 | 1 |
| o-Terphenyl | 129 | | 70 - 130 | 07/01/22 15:11 | 07/04/22 12:18 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 10.7 | *- | 5.00 | mg/Kg | | | 07/10/22 07:18 | 1 |

Client Sample ID: SS01

Lab Sample ID: 890-2486-2

Date Collected: 06/28/22 13:50

Matrix: Solid

Date Received: 06/30/22 12:58

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:03 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:03 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:03 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:03 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:03 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 13:03 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

Client Sample ID: SS01

Lab Sample ID: 890-2486-2

Date Collected: 06/28/22 13:50

Matrix: Solid

Date Received: 06/30/22 12:58

Sample Depth: 0.5

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 13:03 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 07/11/22 14:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 07/05/22 13:34 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 07/01/22 15:11 | 07/04/22 13:25 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 07/01/22 15:11 | 07/04/22 13:25 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 07/01/22 15:11 | 07/04/22 13:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 113 | | 70 - 130 | | | 07/01/22 15:11 | 07/04/22 13:25 | 1 |
| o-Terphenyl | 126 | | 70 - 130 | | | 07/01/22 15:11 | 07/04/22 13:25 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 19.9 | *- | 4.98 | mg/Kg | | | 07/10/22 07:26 | 1 |

Client Sample ID: SS02

Lab Sample ID: 890-2486-3

Date Collected: 06/28/22 13:55

Matrix: Solid

Date Received: 06/30/22 12:58

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:23 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:23 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:23 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 13:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 13:23 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 07/11/22 14:44 | 1 |

Method: 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 | | | 07/05/22 13:34 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

Client Sample ID: SS02

Lab Sample ID: 890-2486-3

Date Collected: 06/28/22 13:55

Matrix: Solid

Date Received: 06/30/22 12:58

Sample Depth: 0.5

Method: 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 | | 07/01/22 15:11 | 07/04/22 13:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 07/01/22 15:11 | 07/04/22 13:47 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 07/01/22 15:11 | 07/04/22 13:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 132 | S1+ | 70 - 130 | 07/01/22 15:11 | 07/04/22 13:47 | 1 |
| 1-Chlorooctane | 110 | | 70 - 130 | 07/01/22 15:11 | 07/04/22 15:56 | 1 |
| o-Terphenyl | 147 | S1+ | 70 - 130 | 07/01/22 15:11 | 07/04/22 13:47 | 1 |
| o-Terphenyl | 123 | | 70 - 130 | 07/01/22 15:11 | 07/04/22 15:56 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 16.2 | *- | 5.00 | mg/Kg | | | 07/10/22 07:33 | 1 |

Client Sample ID: SS03

Lab Sample ID: 890-2486-4

Date Collected: 06/28/22 14:00

Matrix: Solid

Date Received: 06/30/22 12:58

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:44 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:44 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:44 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:44 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:44 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 07/07/22 15:00 | 07/11/22 13:44 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 13:44 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 13:44 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 07/11/22 14:44 | 1 |

Method: 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 | | | 07/05/22 13:34 | 1 |

Method: 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 | | 07/01/22 15:11 | 07/04/22 14:08 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 07/01/22 15:11 | 07/04/22 14:08 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 07/01/22 15:11 | 07/04/22 14:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 121 | | 70 - 130 | 07/01/22 15:11 | 07/04/22 14:08 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

Client Sample ID: SS03

Lab Sample ID: 890-2486-4

Date Collected: 06/28/22 14:00

Matrix: Solid

Date Received: 06/30/22 12:58

Sample Depth: 0.5

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 129 | | 70 - 130 | 07/01/22 15:11 | 07/04/22 14:08 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6.40 | *- | 4.96 | mg/Kg | | | 07/10/22 07:41 | 1 |

Client Sample ID: SS04

Lab Sample ID: 890-2486-5

Date Collected: 06/28/22 14:05

Matrix: Solid

Date Received: 06/30/22 12:58

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 07/07/22 15:00 | 07/11/22 14:04 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 07/07/22 15:00 | 07/11/22 14:04 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 07/07/22 15:00 | 07/11/22 14:04 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 07/07/22 15:00 | 07/11/22 14:04 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 07/07/22 15:00 | 07/11/22 14:04 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 07/07/22 15:00 | 07/11/22 14:04 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 14:04 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 14:04 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 07/11/22 14:44 | 1 |

Method: 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 | | | 07/05/22 13:34 | 1 |

Method: 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 | | 07/01/22 15:11 | 07/04/22 14:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 07/01/22 15:11 | 07/04/22 14:29 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 07/01/22 15:11 | 07/04/22 14:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 134 | S1+ | 70 - 130 | 07/01/22 15:11 | 07/04/22 14:29 | 1 |
| o-Terphenyl | 151 | S1+ | 70 - 130 | 07/01/22 15:11 | 07/04/22 14:29 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 39.3 | *- | 4.99 | mg/Kg | | | 07/10/22 07:49 | 1 |

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Surrogate Summary

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

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) |
| 880-16508-A-26-C MS | Matrix Spike | 110 | 93 |
| 880-16508-A-26-D MSD | Matrix Spike Duplicate | 109 | 95 |
| 890-2486-1 | FS01 | 110 | 101 |
| 890-2486-2 | SS01 | 105 | 100 |
| 890-2486-3 | SS02 | 110 | 102 |
| 890-2486-4 | SS03 | 107 | 101 |
| 890-2486-5 | SS04 | 107 | 102 |
| LCS 880-29219/1-A | Lab Control Sample | 109 | 94 |
| LCSD 880-29219/2-A | Lab Control Sample Dup | 108 | 92 |
| MB 880-29212/5-A | Method Blank | 104 | 99 |
| MB 880-29219/5-A | Method Blank | 105 | 94 |
| 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) |
| 890-2484-A-1-E MS | Matrix Spike | 157 S1+ | 159 S1+ |
| 890-2484-A-1-F MSD | Matrix Spike Duplicate | 142 S1+ | 147 S1+ |
| 890-2486-1 | FS01 | 117 | 129 |
| 890-2486-2 | SS01 | 113 | 126 |
| 890-2486-3 | SS02 | 132 S1+ | 147 S1+ |
| 890-2486-3 | SS02 | 110 | 123 |
| 890-2486-4 | SS03 | 121 | 129 |
| 890-2486-5 | SS04 | 134 S1+ | 151 S1+ |
| LCS 880-28892/2-A | Lab Control Sample | 117 | 118 |
| LCSD 880-28892/3-A | Lab Control Sample Dup | 121 | 125 |
| MB 880-28892/1-A | Method Blank | 122 | 142 S1+ |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

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QC Sample Results

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29212/5-A

Matrix: Solid

Analysis Batch: 29365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29212

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 14:20 | 07/10/22 19:22 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 14:20 | 07/10/22 19:22 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 14:20 | 07/10/22 19:22 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/07/22 14:20 | 07/10/22 19:22 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 14:20 | 07/10/22 19:22 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 07/07/22 14:20 | 07/10/22 19:22 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | 07/07/22 14:20 | 07/10/22 19:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | 07/07/22 14:20 | 07/10/22 19:22 | 1 |

Lab Sample ID: MB 880-29219/5-A

Matrix: Solid

Analysis Batch: 29365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29219

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 06:58 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 06:58 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 06:58 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/07/22 15:00 | 07/11/22 06:58 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/07/22 15:00 | 07/11/22 06:58 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 07/07/22 15:00 | 07/11/22 06:58 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 06:58 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | 07/07/22 15:00 | 07/11/22 06:58 | 1 |

Lab Sample ID: LCS 880-29219/1-A

Matrix: Solid

Analysis Batch: 29365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29219

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene | 0.100 | 0.08825 | | mg/Kg | | 88 | 70 - 130 |
| Toluene | 0.100 | 0.1052 | | mg/Kg | | 105 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09230 | | mg/Kg | | 92 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1890 | | mg/Kg | | 94 | 70 - 130 |
| o-Xylene | 0.100 | 0.1106 | | mg/Kg | | 111 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 |

Lab Sample ID: LCSD 880-29219/2-A

Matrix: Solid

Analysis Batch: 29365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29219

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene | 0.100 | 0.08703 | | mg/Kg | | 87 | 70 - 130 | 1 | 35 |

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QC Sample Results

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

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

Lab Sample ID: LCSD 880-29219/2-A

Matrix: Solid

Analysis Batch: 29365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29219

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene | 0.100 | 0.1029 | | mg/Kg | | 103 | 70 - 130 | 2 | 35 |
| Ethylbenzene | 0.100 | 0.09136 | | mg/Kg | | 91 | 70 - 130 | 1 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1873 | | mg/Kg | | 94 | 70 - 130 | 1 | 35 |
| o-Xylene | 0.100 | 0.1085 | | mg/Kg | | 108 | 70 - 130 | 2 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 |

Lab Sample ID: 880-16508-A-26-C MS

Matrix: Solid

Analysis Batch: 29365

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29219

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00199 | U | 0.101 | 0.09010 | | mg/Kg | | 89 | 70 - 130 |
| Toluene | <0.00199 | U | 0.101 | 0.1049 | | mg/Kg | | 104 | 70 - 130 |
| Ethylbenzene | <0.00199 | U | 0.101 | 0.09144 | | mg/Kg | | 91 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.202 | 0.1869 | | mg/Kg | | 93 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.101 | 0.1081 | | mg/Kg | | 107 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 |

Lab Sample ID: 880-16508-A-26-D MSD

Matrix: Solid

Analysis Batch: 29365

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29219

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00199 | U | 0.100 | 0.09103 | | mg/Kg | | 91 | 70 - 130 | 1 | 35 |
| Toluene | <0.00199 | U | 0.100 | 0.09952 | | mg/Kg | | 99 | 70 - 130 | 5 | 35 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.08638 | | mg/Kg | | 86 | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.1753 | | mg/Kg | | 87 | 70 - 130 | 6 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.1019 | | mg/Kg | | 102 | 70 - 130 | 6 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 |

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

Lab Sample ID: MB 880-28892/1-A

Matrix: Solid

Analysis Batch: 28975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28892

| 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 | | 07/01/22 15:11 | 07/04/22 11:12 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

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

Lab Sample ID: MB 880-28892/1-A

Matrix: Solid

Analysis Batch: 28975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28892

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 07/01/22 15:11 | 07/04/22 11:12 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 07/01/22 15:11 | 07/04/22 11:12 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 122 | | 70 - 130 | | | 07/01/22 15:11 | 07/04/22 11:12 | 1 |
| o-Terphenyl | 142 | S1+ | 70 - 130 | | | 07/01/22 15:11 | 07/04/22 11:12 | 1 |

Lab Sample ID: LCS 880-28892/2-A

Matrix: Solid

Analysis Batch: 28975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28892

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1174 | | mg/Kg | | 117 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1126 | | mg/Kg | | 113 | 70 - 130 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 1-Chlorooctane | 117 | | 70 - 130 | | | | |
| o-Terphenyl | 118 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-28892/3-A

Matrix: Solid

Analysis Batch: 28975

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28892

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1178 | | mg/Kg | | 118 | 70 - 130 | 0 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1168 | | mg/Kg | | 117 | 70 - 130 | 4 | 20 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 121 | | 70 - 130 | | | | | | |
| o-Terphenyl | 125 | | 70 - 130 | | | | | | |

Lab Sample ID: 890-2484-A-1-E MS

Matrix: Solid

Analysis Batch: 28975

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28892

| 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 F1 | 996 | 1563 | F1 | mg/Kg | | 154 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 3030 | F1 | 996 | 1488 | F1 | mg/Kg | | -155 | 70 - 130 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 157 | S1+ | 70 - 130 | | | | | | |
| o-Terphenyl | 159 | S1+ | 70 - 130 | | | | | | |

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QC Sample Results

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

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

Lab Sample ID: 890-2484-A-1-F MSD

Matrix: Solid

Analysis Batch: 28975

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28892

| 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 F1 | 996 | 1447 | F1 | mg/Kg | | 143 | 70 - 130 | 8 | 20 |
| Diesel Range Organics (Over C10-C28) | 3030 | F1 | 996 | 1351 | F1 | mg/Kg | | -168 | 70 - 130 | 10 | 20 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 142 | S1+ | 70 - 130 | | | | | | | | |
| o-Terphenyl | 147 | S1+ | 70 - 130 | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28851/1-A

Matrix: Solid

Analysis Batch: 29230

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 | | | 07/10/22 04:02 | 1 |

Lab Sample ID: LCS 880-28851/2-A

Matrix: Solid

Analysis Batch: 29230

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250 | 223.2 | *- | mg/Kg | | 89 | 90 - 110 |

Lab Sample ID: LCSD 880-28851/3-A

Matrix: Solid

Analysis Batch: 29230

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 | 237.5 | | mg/Kg | | 95 | 90 - 110 | 6 | 20 |

Lab Sample ID: 880-16529-A-31-E MS

Matrix: Solid

Analysis Batch: 29230

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 | 1410 | *- | 1250 | 2659 | | mg/Kg | | 101 | 90 - 110 |

Lab Sample ID: 880-16529-A-31-F MSD

Matrix: Solid

Analysis Batch: 29230

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 | 1410 | *- | 1250 | 2660 | | mg/Kg | | 101 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

GC VOA

Prep Batch: 29212

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-29212/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 29219

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2486-1 | FS01 | Total/NA | Solid | 5035 | |
| 890-2486-2 | SS01 | Total/NA | Solid | 5035 | |
| 890-2486-3 | SS02 | Total/NA | Solid | 5035 | |
| 890-2486-4 | SS03 | Total/NA | Solid | 5035 | |
| 890-2486-5 | SS04 | Total/NA | Solid | 5035 | |
| MB 880-29219/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-29219/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-29219/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-16508-A-26-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-16508-A-26-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 29365

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2486-1 | FS01 | Total/NA | Solid | 8021B | 29219 |
| 890-2486-2 | SS01 | Total/NA | Solid | 8021B | 29219 |
| 890-2486-3 | SS02 | Total/NA | Solid | 8021B | 29219 |
| 890-2486-4 | SS03 | Total/NA | Solid | 8021B | 29219 |
| 890-2486-5 | SS04 | Total/NA | Solid | 8021B | 29219 |
| MB 880-29212/5-A | Method Blank | Total/NA | Solid | 8021B | 29212 |
| MB 880-29219/5-A | Method Blank | Total/NA | Solid | 8021B | 29219 |
| LCS 880-29219/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 29219 |
| LCSD 880-29219/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 29219 |
| 880-16508-A-26-C MS | Matrix Spike | Total/NA | Solid | 8021B | 29219 |
| 880-16508-A-26-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 29219 |

Analysis Batch: 29452

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2486-1 | FS01 | Total/NA | Solid | Total BTEX | |
| 890-2486-2 | SS01 | Total/NA | Solid | Total BTEX | |
| 890-2486-3 | SS02 | Total/NA | Solid | Total BTEX | |
| 890-2486-4 | SS03 | Total/NA | Solid | Total BTEX | |
| 890-2486-5 | SS04 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 28892

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2486-1 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-2486-2 | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-2486-3 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-2486-3 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-2486-4 | SS03 | Total/NA | Solid | 8015NM Prep | |
| 890-2486-5 | SS04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-28892/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-28892/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-28892/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-2484-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

GC Semi VOA (Continued)

Prep Batch: 28892 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2484-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 28975

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2486-1 | FS01 | Total/NA | Solid | 8015B NM | 28892 |
| 890-2486-2 | SS01 | Total/NA | Solid | 8015B NM | 28892 |
| 890-2486-3 | SS02 | Total/NA | Solid | 8015B NM | 28892 |
| 890-2486-3 | SS02 | Total/NA | Solid | 8015B NM | 28892 |
| 890-2486-4 | SS03 | Total/NA | Solid | 8015B NM | 28892 |
| 890-2486-5 | SS04 | Total/NA | Solid | 8015B NM | 28892 |
| MB 880-28892/1-A | Method Blank | Total/NA | Solid | 8015B NM | 28892 |
| LCS 880-28892/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 28892 |
| LCSD 880-28892/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 28892 |
| 890-2484-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015B NM | 28892 |
| 890-2484-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 28892 |

Analysis Batch: 29044

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2486-1 | FS01 | Total/NA | Solid | 8015 NM | |
| 890-2486-2 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-2486-3 | SS02 | Total/NA | Solid | 8015 NM | |
| 890-2486-4 | SS03 | Total/NA | Solid | 8015 NM | |
| 890-2486-5 | SS04 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 28851

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-2486-1 | FS01 | Soluble | Solid | DI Leach | |
| 890-2486-2 | SS01 | Soluble | Solid | DI Leach | |
| 890-2486-3 | SS02 | Soluble | Solid | DI Leach | |
| 890-2486-4 | SS03 | Soluble | Solid | DI Leach | |
| 890-2486-5 | SS04 | Soluble | Solid | DI Leach | |
| MB 880-28851/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-28851/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-28851/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-16529-A-31-E MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-16529-A-31-F MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 29230

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2486-1 | FS01 | Soluble | Solid | 300.0 | 28851 |
| 890-2486-2 | SS01 | Soluble | Solid | 300.0 | 28851 |
| 890-2486-3 | SS02 | Soluble | Solid | 300.0 | 28851 |
| 890-2486-4 | SS03 | Soluble | Solid | 300.0 | 28851 |
| 890-2486-5 | SS04 | Soluble | Solid | 300.0 | 28851 |
| MB 880-28851/1-A | Method Blank | Soluble | Solid | 300.0 | 28851 |
| LCS 880-28851/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 28851 |
| LCSD 880-28851/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 28851 |
| 880-16529-A-31-E MS | Matrix Spike | Soluble | Solid | 300.0 | 28851 |
| 880-16529-A-31-F MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 28851 |

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Lab Chronicle

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

Client Sample ID: FS01

Lab Sample ID: 890-2486-1

Date Collected: 06/28/22 13:45

Matrix: Solid

Date Received: 06/30/22 12:58

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 29219 | 07/07/22 15:00 | EL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 29365 | 07/11/22 12:42 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 29452 | 07/11/22 14:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 29044 | 07/05/22 13:34 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 28892 | 07/01/22 15:11 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 28975 | 07/04/22 12:18 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 28851 | 07/01/22 12:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 29230 | 07/10/22 07:18 | CH | XEN MID |

Client Sample ID: SS01

Lab Sample ID: 890-2486-2

Date Collected: 06/28/22 13:50

Matrix: Solid

Date Received: 06/30/22 12:58

| 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 | 29219 | 07/07/22 15:00 | EL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 29365 | 07/11/22 13:03 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 29452 | 07/11/22 14:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 29044 | 07/05/22 13:34 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28892 | 07/01/22 15:11 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 28975 | 07/04/22 13:25 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 28851 | 07/01/22 12:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 29230 | 07/10/22 07:26 | CH | XEN MID |

Client Sample ID: SS02

Lab Sample ID: 890-2486-3

Date Collected: 06/28/22 13:55

Matrix: Solid

Date Received: 06/30/22 12:58

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 29219 | 07/07/22 15:00 | EL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 29365 | 07/11/22 13:23 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 29452 | 07/11/22 14:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 29044 | 07/05/22 13:34 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28892 | 07/01/22 15:11 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 28975 | 07/04/22 13:47 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 28892 | 07/01/22 15:11 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 28975 | 07/04/22 15:56 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 28851 | 07/01/22 12:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 29230 | 07/10/22 07:33 | CH | XEN MID |

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Lab Chronicle

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

Client Sample ID: SS03

Lab Sample ID: 890-2486-4

Date Collected: 06/28/22 14:00

Matrix: Solid

Date Received: 06/30/22 12:58

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 29219 | 07/07/22 15:00 | EL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 29365 | 07/11/22 13:44 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 29452 | 07/11/22 14:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 29044 | 07/05/22 13:34 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 28892 | 07/01/22 15:11 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 28975 | 07/04/22 14:08 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 28851 | 07/01/22 12:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 29230 | 07/10/22 07:41 | CH | XEN MID |

Client Sample ID: SS04

Lab Sample ID: 890-2486-5

Date Collected: 06/28/22 14:05

Matrix: Solid

Date Received: 06/30/22 12:58

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 29219 | 07/07/22 15:00 | EL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 29365 | 07/11/22 14:04 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 29452 | 07/11/22 14:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 29044 | 07/05/22 13:34 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28892 | 07/01/22 15:11 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 28975 | 07/04/22 14:29 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 28851 | 07/01/22 12:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 29230 | 07/10/22 07:49 | CH | XEN MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

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 | T104704400-22-24 | 06-30-23 |

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: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Ensolum
Project/Site: MCA 251

Job ID: 890-2486-1
SDG: 03D2057007

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2486-1 | FS01 | Solid | 06/28/22 13:45 | 06/30/22 12:58 | 1 |
| 890-2486-2 | SS01 | Solid | 06/28/22 13:50 | 06/30/22 12:58 | 0.5 |
| 890-2486-3 | SS02 | Solid | 06/28/22 13:55 | 06/30/22 12:58 | 0.5 |
| 890-2486-4 | SS03 | Solid | 06/28/22 14:00 | 06/30/22 12:58 | 0.5 |
| 890-2486-5 | SS04 | Solid | 06/28/22 14:05 | 06/30/22 12:58 | 0.5 |



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) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

| | | | |
|------------------|----------------|-------------------------|-----------------------|
| Project Manager: | KALEI JENNINGS | Bill to: (if different) | |
| Company Name: | ENSOLUM LLC | Company Name: | |
| Address: | | Address: | |
| City, State ZIP: | | City, State ZIP: | |
| Phone: | 817-483-2503 | Email: | kjennings@ensolum.com |

| | | | |
|---------------------|---|--|--|
| Work Order Comments | | | |
| Program: | UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> | | |
| State of Project: | | | |
| Reporting: | Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> | | |
| Deliverables: | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: | | |

| | | | | | |
|---------------------------|---|---|---|-----------------|--------|
| Project Name: | MCA PSI | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres Code | |
| Project Number: | 03D3057007 | Due Date: | | | |
| Project Location: | Lower Shore | TAT starts the day received by the lab, if received by 4:30pm | | | |
| Sampler's Name: | | | | | |
| P.O. #: | | Temp Blank: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | TW-007 |
| SAMPLE RECEIPT | | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |
| Samples Received In tact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor: | | | |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Temperature Reading: | | | |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Corrected Temperature: | | | |
| Total Containers: | | | | | |



890-2486 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | ANALYSIS REQUEST | Preservative Codes | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|------------------|---|-----------------|
| FS01 | S | 06/28 | 1345 | 2' | C | 1 | BTEX | | None: NO DI Water: H ₂ O | NAAP 2010507785 |
| SS01 | S | 06/28 | 1350 | 0.5' | G | 1 | TPH | | Cool: Cool MeOH: Me | NAAP 2010507785 |
| SS02 | S | 06/28 | 1355 | 0.5' | G | 1 | Chlorides | | HCL: HC HNO ₃ : HN | NAAP 2010507785 |
| SS03 | S | 06/28 | 1400 | 0.5' | G | 1 | | | H ₂ SO ₄ : H ₂ | NAAP 2010507785 |
| SS04 | S | 06/28 | 1405 | 0.5' | G | 1 | | | H ₃ PO ₄ : HP | NAAP 2010507785 |
| | | | | | | | | | NaHSO ₄ : NABIS | NAAP 2010507785 |
| | | | | | | | | | Na ₂ S ₂ O ₃ : NASO ₃ | NAAP 2010507785 |
| | | | | | | | | | Zn Acetate+NaOH: Zn | NAAP 2010507785 |
| | | | | | | | | | NaOH+Ascorbic Acid: SARC | NAAP 2010507785 |

Total 2007 / 6010 2008 / 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 SiO₂ 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

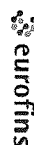
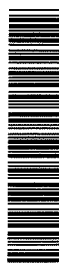
Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and sub-contractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses 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 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



**Environment Testing
America**

| Client Information (Sub Contract Lab) | | | | | |
|---|--------------|---|-----------------------------|-------------------------------|-------------------|
| Client Contact: | | Sampler | Lab PM | Carrier Tracking No(s) | |
| Shipping/Receiving | | Phone: | Kramer, Jessica | | |
| Company | | E-Mail: | Jessica.Kramer@eurofins.com | State of Origin New Mexico | |
| Eurofins Environment Testing South Center | | Accreditations Required (See note) NELAP - Texas | | Page # Page 1 of 1 | |
| Address 1211 W Florida Ave | | Date Date Requested 7/7/2022 | | | |
| City Midland | | TAT Requested (days) | | | |
| State zip: TX: 79701 | | | | | |
| Phone 432-704-5440(Tel) | | PO #: | | | |
| Email: | | WO #: | | | |
| Project Name MCA 251 | | Project #: 89000094 | | | |
| Site | | SSOW#: | | | |
| Sample Identification - Client ID (Lab ID) | | | | | |
| F501 (890-2486-1) | 6/28/22 | 13 45 Mountain | Solid | X | X |
| SS01 (890-2486-2) | 6/28/22 | 13 50 Mountain | Solid | X | X |
| SS02 (890-2486-3) | 6/28/22 | 13 55 Mountain | Solid | X | X |
| SS03 (890-2486-4) | 6/28/22 | 14 00 Mountain | Solid | X | X |
| SS04 (890-2486-5) | 6/28/22 | 14 05 Mountain | Solid | X | X |
| Analysis Requested | | | | | |
| <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) | | | | | |
| <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) | | | | | |
| 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH | | | | | |
| 8015MOD_Calc | | | | | |
| 300_ORGFM_28D/DI_LEACH Chloride | | | | | |
| 8021B/5035FP_Calc (MOD) BTEX | | | | | |
| Total_BTEX_GCV | | | | | |
| Total Number of containers | | | | | |
| Special Instructions/Note: | | | | | |
| Preservation Codes: | | | | | |
| A HCL | M Hexane | N None | O AsNaO2 | P Na2OAS | R Na2SO3 |
| B NaOH | C Zn Acetate | D Nitric Acid | E NaHSO4 | F MeOH | G Amchlor |
| H Ascorbic Acid | I Ice | J DI Water | K EDTA | L EDA | Z other (specify) |
| Other: | | | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2486-1

SDG Number: 03D2057007

Login Number: 2486

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

| 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. | 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 | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2486-1

SDG Number: 03D2057007

Login Number: 2486

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 07/01/22 11:58 AM

| 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. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| 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 | |



APPENDIX D

Final C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

| | |
|----------------|--|
| Incident ID | |
| 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

| | |
|----------------|--|
| 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></u> | Date: _____ |
| email: _____ | Telephone: _____ |
| <u>OCD Only</u> | |
| Received by: <u>Jocelyn Harimon</u> | Date: <u>04/19/2022</u> |

| L48 Spill Volume Estimate Form | | | | | | | | | |
|--|--------------|--|-------------|-------------------------------|--------------------------------------|--|---|--|--|
| Received by OCD: 7/22/2022 2:56:40 PM | | NAPP2210953241 | | | | | | | |
| Release & Number: | | MCA 251 | | | | | | | |
| Asset Area: | | Maljamar | | | | | | | |
| Release Discovery Date & Time: | | 04/06/2020 2:00pm | | | | | | | |
| Release Type: | | Oil Mixture | | | | | | | |
| Provide any known details about the event: | | leak is located in casing vent under roadway | | | | | | | |
| Spill Calculation - Subsurface Spill - Rectangle | | | | | | | | | |
| Was the release on pad or off-pad? | | See reference table below | | | | | | | |
| Has it rained at least a half inch in the last 24 hours? | | See reference table below | | | | | | | |
| Convert Irregular shape into a series of rectangles | Length (ft.) | Width (ft.) | Depth (in.) | Soil Spilled-Fluid Saturation | Estimated volume of each area (bbl.) | Total Estimated Volume of Spill (bbl.) | Percentage of Oil if Spilled Fluid is a Mixture | Total Estimated Volume of Spilled Oil (bbl.) | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) |
| Rectangle A | 3.0 | 3.0 | 24.00 | 15.32% | 3.204 | 0.491 | 5.00% | 0.025 | 0.466 |
| Rectangle B | 80.0 | 1.0 | 2.00 | 15.32% | 2.373 | 0.364 | 5.00% | 0.018 | 0.345 |
| Rectangle C | 8.0 | 4.0 | 2.00 | 15.32% | 0.949 | 0.145 | 5.00% | 0.007 | 0.138 |
| Rectangle D | | | | | 0.000 | 0.000 | | 0.000 | 0.000 |
| Rectangle E | | | | | 0.000 | 0.000 | | 0.000 | 0.000 |
| Rectangle F | | | | | 0.000 | 0.000 | | 0.000 | 0.000 |
| Rectangle G | | | | | 0.000 | 0.000 | | 0.000 | 0.000 |
| Rectangle H | | | | | 0.000 | 0.000 | | 0.000 | 0.000 |
| Rectangle I | | | | | 0.000 | 0.000 | | 0.000 | 0.000 |
| Released to Imaging: 7/26/2022 2:42:47 PM | | | | | 0.000 | 0.000 | | 0.000 | 0.000 |
| Total Volume Release: | | | | | | 1.000 | | 0.050 | 0.950 |

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

Action 99943

CONDITIONS

| | |
|--|---|
| Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701 | OGRID: 217817 |
| | Action Number: 99943 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| jharimon | None | 4/19/2022 |

| | |
|----------------|----------------|
| Incident ID | NAPP2210953241 |
| 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? | 50-100 ft bgs _____ |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ 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.

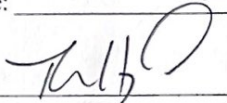
Form C-141

Page 4

State of New Mexico
Oil Conservation Division

| | |
|----------------|----------------|
| Incident ID | NAPP2210953241 |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: Thomas HaigoodTitle: HSE SpecialistSignature: Date: 07/26/2022email: thomas.haigood@mavresources.comTelephone: 432-701-7802**OCD Only**

Received by: _____

Date: _____

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

| | |
|----------------|----------------|
| Incident ID | NAPP2210953241 |
| District RP | |
| Facility ID | |
| Application ID | |

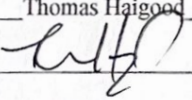
Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Thomas Haigood Title: HSE Specialist
Signature:  Date: 07/26/2022
email: thomas.haigood@mavresources.com Telephone: 432-701-7802

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: Jennifer Nobui Date: 07/26/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A



APPENDIX E

NMOCD Notifications

From: [Hamlet, Robert, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Austin.Tramell@mavresources.com](#); [Caleb Cooley](#); [Thomas Haigood](#); [Jason Thomas](#); [Bratcher, Mike, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: (Extension Approval) - Maverick - MCA 251 (Incident Number NAPP2210953241)
Date: Thursday, June 30, 2022 8:10:27 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

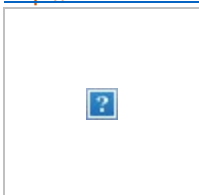
[**EXTERNAL EMAIL**]

RE: Incident #NAPP2210953241

Kalei,

Your request for an extension to **October 3rd, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Wednesday, June 29, 2022 9:42 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Austin.Tramell@mavresources.com; Caleb Cooley <Caleb.Cooley@mavresources.com>; Thomas Haigood <Thomas.Haigood@mavresources.com>; Jason Thomas <jason.thomas@mavresources.com>
Subject: [EXTERNAL] Maverick-Extension Request- MCA 251 (Incident Number NAPP2210953241)

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To Whom It May Concern,

Maverick Natural Resources (Maverick) is requesting an extension for the current deadline of July 5, 2022 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the MCA 251 (Incident Number NAPP2210953241). The release was discovered on April 6, 2022 and additional site assessment and remediation activities are warranted. Maverick recently acquired the site from the previous operator and is requesting a 90-day extension to October 3, 2022, to allow time to transfer files, review site information, and prepare a remediation work plan or closure report.

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC



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

Action 128159

CONDITIONS

| | |
|--|---|
| Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002 | OGRID: 331199 |
| | Action Number: 128159 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|--------------------------|----------------|
| Created By | Condition | Condition Date |
| jnobui | Closure Report Approved. | 7/26/2022 |