ENSOLUM

June 26, 2023

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

Re: Closure Request EVGSAU 2418-001 Incident Number NAPP2231954757 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the EVGSAU 2418-001 (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a flow line release of crude oil and produced water into the pasture adjacent to the Site. Based on 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 NAPP2231954757.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 19, Township 17 South, Range 35 East, in Lea County, New Mexico (32.81660°, -103.50212°) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (SLO).

On November 9, 2022, a flow line failure resulted in the release of approximately 0.1 barrels (bbls) of crude oil and 7.3 bbls of produced water into the adjacent pasture. A vacuum truck was immediately dispatched to the Site and recovered approximately 0.1 bbls of produced water. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) and the New Mexico State Land Office (NMSLO) on a Release Notification Form C-141 (Form C-141) on November 15, 2022. The release was assigned Incident Number NAPP2231954757.

The NMSLO was notified of excavation and remediation activities required in the pasture on a Right of Entry Request for Remediation form, submitted to the NMSLO on December 13, 2022. The request included a copy of the Form C-141, a topographic location map, and a satellite image of the location. The Right of Entry (ROE) Permit was fully executed by the NMSLO and received by Maverick on January 3, 2023. No additional cultural resource surveys were completed in connection with this release. A copy of the ROE Request for Remediation form and fully executed ROE Permit, are included in Appendix A.

Maverick Permian, LLC Closure Request EVGSAU 2418-001

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on regional groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-05439, located approximately 206 feet south of the Site. The groundwater well has a reported depth to groundwater of 85 feet bgs and a total depth of 135 feet bgs. Two other wells within 0.08 miles of the Site have a reported depth to groundwater between 71 feet and 76.6 feet bgs. The groundwater well with the most recent depth to groundwater data is United States Geological Survey (USGS) well 324855103300701, located approximately 0.08 miles southwest of the Site. The groundwater well has a reported depth to groundwater well of 136. Ground surface elevation at the groundwater well location is 3,988 feet above mean sea level (amsl), which is approximately 2 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix B.

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

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between January 20, 2023, and May 31, 2023, Ensolum personnel were at the Site to oversee excavation activities based on information provided on the Form C-141 and visual observations. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips.

Following the removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS04 were collected from the floor of the excavation at depths ranging from 0.5 feet to 3 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from ground surface to 3 feet bgs. The excavation extent and soil sample locations were mapped utilizing a handheld Global Positioning

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| Maverick Permian, LLC | June 26, 2023 | |
|-----------------------|---------------|--|
| Closure Request | | |
| EVGSAU 2418-001 | Page 3 | |

System (GPS) unit and are depicted on Figure 2. Photographic documentation of the excavation activities is included in a photographic log in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analyses of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for excavation soil samples FS04 and SW02 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation floor samples FS01 through FS03 and excavation sidewall sample SW01 indicated chloride concentrations exceeded the Site Closure Criteria. Additional soil was excavated from these areas and subsequent floor samples FS01A through FS03A, collected at 4 feet bgs, and subsequent sidewall samples SW01A and SW03, collected at depths ranging from ground surface to 4 feet bgs, were compliant with the Site Closure Criteria. Additionally, four assessment soil samples (SS01 through SS04) were collected around the excavation extent at an approximate depth of 0.5 feet bgs to confirm the lateral extent of the surface release.

Laboratory analytical results for excavation soil samples FS01A through FS03A, FS04, SW01A, SW02, and SW03, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for assessment soil samples SS01 through SS04, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

The excavation area measured approximately 800 square feet and a total of approximately 89 cubic yards of impacted soil was removed during excavation activities. The impacted soil was transported and properly disposed of at R360 Environmental Solutions in Hobbs, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the November 9, 2022, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the laboratory analytical results, no further remediation was required.

Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, Maverick respectfully requests closure for Incident Number NAPP2231954757. NMOCD notification records are provided in Appendix E and the Final C-141 is included in Appendix F. A Reclamation Plan for the disturbed pasture area is included in Appendix G for NMSLO review.



Maverick Permian, LLC Closure Request EVGSAU 2418-001

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

Sincerely, Ensolum, LLC

alei Jennings

Kalei Jennings Senior Scientist

wie Cale

Aimee Cole Senior Managing Scientist

cc: Bryce Wagoner, Maverick Permian, LLC New Mexico State Land Office

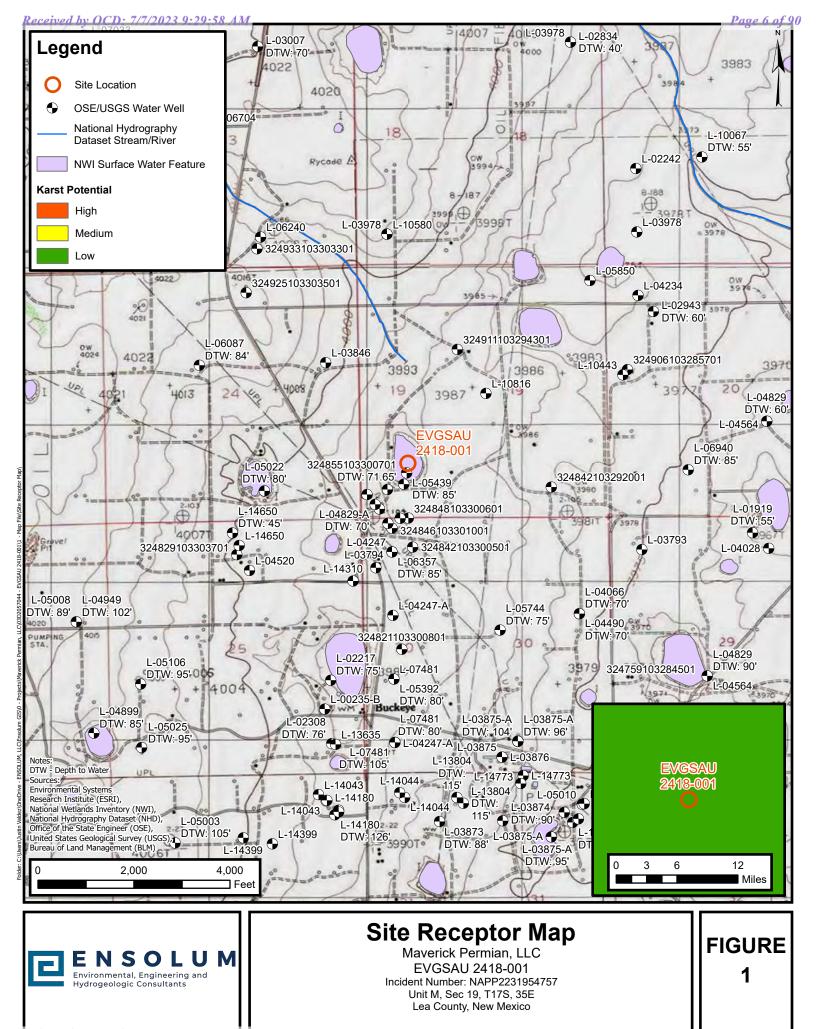
Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Excavation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Appendix A ROE Request for Remediation Form and ROE Permit
- Appendix B Referenced Well Records
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Sampling Notifications
- Appendix F Final C-141
- Appendix G NMSLO Reclamation Plan





FIGURES



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TABLE

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| | | | | E Mav | TABLE 1 LE ANALYTICA EVGSAU 2418-00 verick Permian, I County, New Me | 1 _LC | | | | | |
|-----------------------|--------------------------|---------------------|--------------------|-----------------------|------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|----------------------|---------------------|--|
| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) | |
| NMOCD Table I | Closure Criteria (| (NMAC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 | |
| | Excavation Floor Samples | | | | | | | | | | |
| FS01 | 01/20/2023 | 3 | <0.00198 | <0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 10,600 | |
| FS01A | 05/25/2023 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 128 | |
| FS02 | 01/20/2023 | 0.5 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 3,670 | |
| FS02A | 05/25/2023 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 144 | |
| FS03 | 01/20/2023 | 3 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 3,310 | |
| FS03A | 05/25/2023 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 160 | |
| FS04 | 01/20/2023 | 0.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 78.8 | |
| | | | | Excava | ation Sidewall Sa | amples | | | | | |
| SW01 | 01/20/2023 | 0 - 3 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 8,430 | |
| SW01A | 05/25/2023 | 0 - 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 | |
| SW02 | 01/20/2023 | 0 - 3 | <0.00200 | <0.00401 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 152 | |
| SW03 | 05/25/2023 | 0 - 4 | <0.050 | <0.300 | <10.0 | 22.8 | <10.0 | 22.8 | 22.8 | 288 | |
| | | | | Asse | ssment Soil San | ples | | | | | |
| SS01 | 05/31/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | |
| SS02 | 05/31/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | |
| SS03 | 05/31/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | |
| SS04 | 05/31/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated



APPENDIX A

ROE Request for Remediation Form and ROE Permit

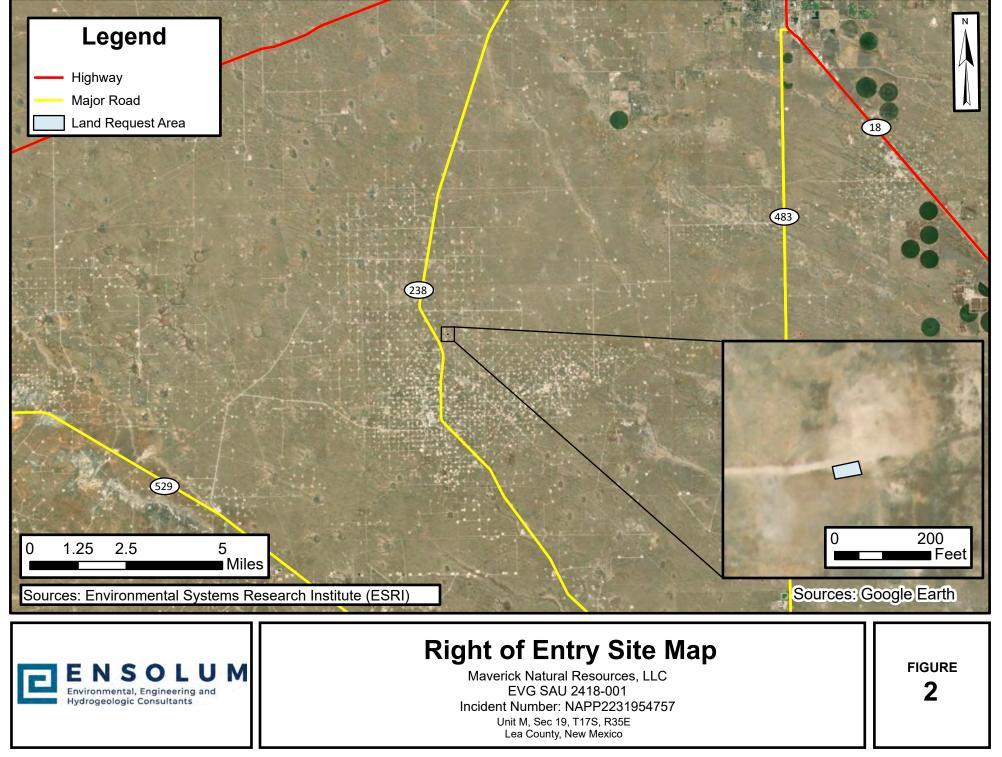


Stephanie Garcia Richard Commissioner of Public Lands

RIGHT OF ENTRY REQUEST FOR REMEDIATION

| Address City, State, Zi | ne p n: | | |
|----------------------------|-------------------------------------------------------------------------------|-----------------------------|--------------------------|
| Purpose of rec | quest: | | |
| Section | Township Range | | |
| Qtr/Qtr | County | | |
| GPS Location | (decimal degrees): Latitude | W Longitude | N |
| If this is a rem | nediation for a spill please attach a co | py of the OCD C-141 form | n. |
| Is the complet | ted C-141 attached? Yes 🗌 No 🗌 | | |
| Square footag | e of spill impacted surface: | | |
| Estimated squ | are footage of total disturbance: | | |
| Reclamation I | Plan (attach addl. sheet if necessary) | | |
| Driving direct | tions from nearest state highway or ro | oad (attach a map of the lo | cation): |
| Lease number | associated with the ROE request: | | |
| | nd/or Operator (if applicable): | | |
| Time expected | d to complete remediation: | | |
| Personnel pres | sent on State Land | | |
| Equipment & | materials present on State Land | | |
| \$50.00 applic | ation fee and \$500.00 permit amou | nt (based on 180 days) rer | newable for up to 3 yrs. |
| Payable to: | The Commissioner of Public Lands P. O. Box 1148 Santa Fe, NM 87504-1148 | | |

* When you provide a check as payment, you authorize the State of New Mexico to either use information from your check to make a one-time electronic fund transfer from your account or to process the payment as a check transaction.



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Stephanie Garcia Richard COMMISSIONER State of New Mexico Commissioner of Public Lands 310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

January 3, 2023

Maverick Natural Resources, LLC 1410 NW County Rd Hobbs, NM 88240

Attn: Bryce Wagoner

Re: Right-of-Entry Permit No.: RE-6381/EVGSAU 2418-001 Reclamation and Remediation Permit

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Amy Velazquez of my staff at (505) 827-5789.

Sincerely,

James S. Bordegaray Director, Commercial Resources Division

JSB/alv



NEW MEXICO STATE LAND OFFICE Commissioner of Public Lands Stephanie Garcia Richard New Mexico State Land Office Building P.O. Box 1148, Santa Fe, NM 87504-1148

RIGHT OF ENTRY PERMIT CONTRACT NO. RE – 6381

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

Maverick Natural Resources, LLC 1410 NW County Rd Hobbs, NM 88240

("Permittee"). The parties agree as follows:

1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a crude oil and produced water release on or adjacent to the site of the EVGSAU 2418-001 (Incident # nAPP2231954757) and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in Lea County, New Mexico::

| Section | Township | Range | Subdivision | County | Longitude/Latitude |
|---------|----------|-------|-------------|--------|---------------------|
| 19 | 178 | 35E | Lot 4 | Lea | 32.81660,-103.50212 |

2. TERM AND TERMINATION

Right of entry is granted for a term of 180 days, commencing on the execution date of this document by the Commissioner of Public Lands.

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3. FEES

- \$ 50.00 Application Fee
- \$ 500.00 Permit Fee
- \$ 550.00 Total Fee

4. CONDITIONS OF USE

A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.

B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.

C. No sale of <u>any</u> material extracted from the Premises is allowed under this ROE.

D. Permittee shall observe all applicable federal, state, and local laws and regulations.

E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.

F. Permittee shall not block or disrupt roads or trails commonly in use.

G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.

H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.

I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.

J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.

K. Personnel present on Premises: Maverick personnel and contractors.

L. Equipment and materials present on Premises: Vehieles, heavy equipment, and associated equipment.

5. SITE CONDITIONS

A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.

B. Access to the Premises shall be over existing roads.

C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

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WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

PERMITTEE SIGNATURE

DATE:

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: nn

Stephanie Garcia Richard Commissioner of Public Lands

01/03/

ti

DATE:

Received by OCD: 7/7/2023 9:29:58 AM



APPENDIX B

Referenced Well Records

Received by OCD: 7/7/2023 9:29: MeW Mexico Office of the State Engineer **Point of Diversion Summary**

| | | s are 1=NV rs are sma | | | | (NAD83 U | | | |
|---------------------------|--------------------|--------------------------|------------------------------------|-----|--------|----------|---------|---------------|--------------|
| Well Tag POI |) Number | Q64 Q | 216 Q4 | Sec | Tws | Rng | X | Y | |
| L 0 | 5439 | 2 | 3 3 | 19 | 17S | 35E | 640212 | 3631888* | |
| Driller License: | 46 | Driller (| Compan | y: | AB | BOTT BI | ROTHERS | COMPANY | |
| Driller Name: | ABBOTT, MUR | RELL | | | | | | | |
| Drill Start Date: | 07/25/1964 | Drill Fin | nish Dat | e: | 0 | /25/1964 | 4 Pl | ug Date: | 01/15/1965 |
| Log File Date: 08/06/1964 | | PCWR | cv Date: | | | | Se | ource: | Shallow |
| Pump Type: | | Pipe Dis | Pipe Discharge Size Depth Well: | | | | Es | timated Yield | : 85 feet |
| Casing Size: | 7.00 | Depth V | | | | 5 feet | D | epth Water: | |
| Wat | er Bearing Stratif | ïcations: | То | p I | Bottom | Descri | ption | | |
| | | | 8 | 15 | 135 | Other/ | Unknown | | |
| - | Casing Per | forations: | To | p 1 | Bottom | | | | |
| | | | 8 | 15 | 135 | | | | |

*UTM location was derived from PLSS - see Help

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.

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US&&@240557203320701 17S.35E.19.3323411

Lea County, New Mexico Latitude 32°48'55", Longitude 103°30'07" NAD27 Land-surface elevation 3,987.80 feet above NGVD29 The depth of the well is 220 feet below land surface. The depth of the hole is 220 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

| | Output formats |
|----------------------|----------------|
| Table of data | |
| Tab-separated data | |
| <u>Graph of data</u> | |
| Reselect period | |

| ate 🗢 Time 🗢 | Water- level date-time accuracy | Parameter \$ code | Water level, feet below land surface | level, feet above \$ specific vertical datum | Referenced vertical datum | Ø \$ Status | Method of measurement | Ø Measuring ≎ agency |
|--------------------------|------------------------------------------|--------------------|-----------------------------------------------------|-------------------------------------------------------------|---------------------------------|----------------|--------------------------|----------------------------|
| 1980-10-02 | D | 62610 | | 3916.15 | NGVD29 | 1 | T | |
| 1980-10-02 1980-10-02 | D | 62611 72019 | 71.65 | 3917.66 | NAVD88 | 1 | T | |

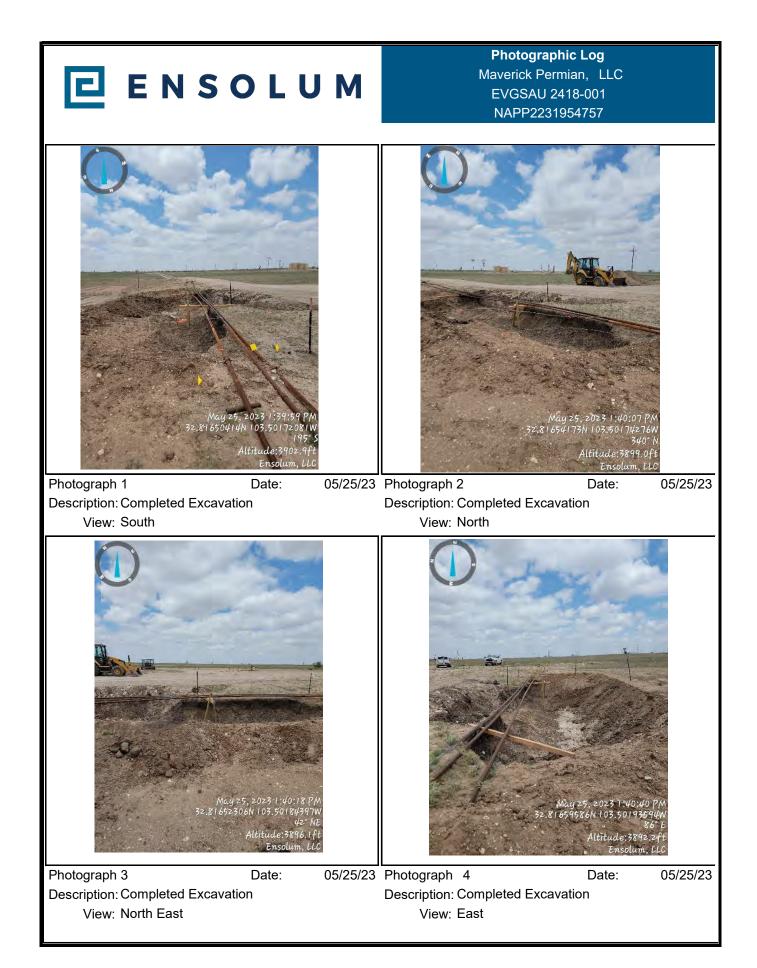




APPENDIX C

Photographic Log







APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation



May 30, 2023

KALEI JENNINGS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EVGSAU 2418

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 12:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



| | | ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To: | Y | |
|-------------------|---------------------|--------------------------------------------------------------------------------------|---------------------|----------------|
| Received: | 05/26/2023 | | Sampling Date: | 05/25/2023 |
| Reported: | 05/30/2023 | | Sampling Type: | Soil |
| Project Name: | EVGSAU 2418 | | Sampling Condition: | Cool & Intact |
| Project Number: | 03D2057044 | | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.81660, -103.5021 | 2 | | |

Sample ID: FS 01 @ 4' (H232697-01)

| BTEX 8021B | mg/ | 'kg | Analyze | d By: JH/ | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Benzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.98 | 98.8 | 2.00 | 1.43 | |
| Toluene* | <0.050 | 0.050 | 05/26/2023 | ND | 2.06 | 103 | 2.00 | 1.84 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.96 | 98.0 | 2.00 | 2.49 | |
| Total Xylenes* | <0.150 | 0.150 | 05/26/2023 | ND | 6.07 | 101 | 6.00 | 3.43 | |
| Total BTEX | <0.300 | 0.300 | 05/26/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 05/26/2023 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/26/2023 | ND | 221 | 110 | 200 | 0.152 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/26/2023 | ND | 200 | 99.8 | 200 | 1.05 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/26/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 93.8 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.4 | % 49.1-14 | 0 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To: | | |
|-------------------|---------------------|---------------------------------------------------------------------------------------|---------------------|----------------|
| Received: | 05/26/2023 | | Sampling Date: | 05/25/2023 |
| Reported: | 05/30/2023 | | Sampling Type: | Soil |
| Project Name: | EVGSAU 2418 | | Sampling Condition: | Cool & Intact |
| Project Number: | 03D2057044 | | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.81660, -103.5021 | 12 | | |

Sample ID: FS 02 @ 4' (H232697-02)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH/ | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.98 | 98.8 | 2.00 | 1.43 | |
| Toluene* | <0.050 | 0.050 | 05/26/2023 | ND | 2.06 | 103 | 2.00 | 1.84 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.96 | 98.0 | 2.00 | 2.49 | |
| Total Xylenes* | <0.150 | 0.150 | 05/26/2023 | ND | 6.07 | 101 | 6.00 | 3.43 | |
| Total BTEX | <0.300 | 0.300 | 05/26/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 107 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 05/26/2023 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/26/2023 | ND | 221 | 110 | 200 | 0.152 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/26/2023 | ND | 200 | 99.8 | 200 | 1.05 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/26/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 89.3 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 88.9 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To: | | |
|-------------------|---------------------|---------------------------------------------------------------------------------------|---------------------|----------------|
| Received: | 05/26/2023 | | Sampling Date: | 05/25/2023 |
| Reported: | 05/30/2023 | | Sampling Type: | Soil |
| Project Name: | EVGSAU 2418 | | Sampling Condition: | Cool & Intact |
| Project Number: | 03D2057044 | | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.81660, -103.5021 | 2 | | |

Sample ID: SW 01 @ 0-4' (H232697-03)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH/ | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.98 | 98.8 | 2.00 | 1.43 | |
| Toluene* | <0.050 | 0.050 | 05/26/2023 | ND | 2.06 | 103 | 2.00 | 1.84 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.96 | 98.0 | 2.00 | 2.49 | |
| Total Xylenes* | <0.150 | 0.150 | 05/26/2023 | ND | 6.07 | 101 | 6.00 | 3.43 | |
| Total BTEX | <0.300 | 0.300 | 05/26/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 05/26/2023 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/26/2023 | ND | 221 | 110 | 200 | 0.152 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/26/2023 | ND | 200 | 99.8 | 200 | 1.05 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/26/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.2 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 91.7 | % 49.1-14 | 8 | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To: | Y | |
|-------------------|---------------------|--------------------------------------------------------------------------------------|---------------------|----------------|
| Received: | 05/26/2023 | | Sampling Date: | 05/25/2023 |
| Reported: | 05/30/2023 | | Sampling Type: | Soil |
| Project Name: | EVGSAU 2418 | | Sampling Condition: | Cool & Intact |
| Project Number: | 03D2057044 | | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.81660, -103.5021 | 12 | | |

Sample ID: SW 03 @ 0-4' (H232697-04)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH/ | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.98 | 98.8 | 2.00 | 1.43 | |
| Toluene* | <0.050 | 0.050 | 05/26/2023 | ND | 2.06 | 103 | 2.00 | 1.84 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.96 | 98.0 | 2.00 | 2.49 | |
| Total Xylenes* | <0.150 | 0.150 | 05/26/2023 | ND | 6.07 | 101 | 6.00 | 3.43 | |
| Total BTEX | <0.300 | 0.300 | 05/26/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 05/26/2023 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/26/2023 | ND | 221 | 110 | 200 | 0.152 | |
| DRO >C10-C28* | 22.8 | 10.0 | 05/26/2023 | ND | 200 | 99.8 | 200 | 1.05 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/26/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.5 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 94.4 | % 49.1-14 | 8 | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To: | (| |
|-------------------|---------------------|---------------------------------------------------------------------------------------|---------------------|----------------|
| Received: | 05/26/2023 | | Sampling Date: | 05/25/2023 |
| Reported: | 05/30/2023 | | Sampling Type: | Soil |
| Project Name: | EVGSAU 2418 | | Sampling Condition: | Cool & Intact |
| Project Number: | 03D2057044 | | Sample Received By: | Tamara Oldaker |
| Project Location: | 32.81660, -103.5021 | 12 | | |

Sample ID: FS 03 @ 4' (H232697-05)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH/ | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.98 | 98.8 | 2.00 | 1.43 | |
| Toluene* | <0.050 | 0.050 | 05/26/2023 | ND | 2.06 | 103 | 2.00 | 1.84 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/26/2023 | ND | 1.96 | 98.0 | 2.00 | 2.49 | |
| Total Xylenes* | <0.150 | 0.150 | 05/26/2023 | ND | 6.07 | 101 | 6.00 | 3.43 | |
| Total BTEX | <0.300 | 0.300 | 05/26/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 104 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 05/26/2023 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/26/2023 | ND | 199 | 99.6 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/26/2023 | ND | 197 | 98.6 | 200 | 0.855 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/26/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 79.5 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 79.8 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8

101 East Marland, Hobbs, NM 88240

| ompany Name: | 13) 333-2326 | FAX (575) 393-2 | 110 | | | | | | B | ILL | TO | | | | | A | NALY | SIS R | EQU | EST | | _ | 1 |
|----------------------------------------------------------------------------------------------------------------|----------------|------------------|-----------|--------------|-------------|--------|--------|----------------------|------------|----------|-------|------------------------|--------|----------------|------|----------------|---------------------|-------|-----|----------|------------|----|---|
| roject Manager: | hale 19 | MANANS | | | | | F | 2.0. # | - | A.F | 4. | 34 | | | | - | | | 1 | | 1 | | |
| ddress: 8172 | North D | DUKS HWI | N | | | | C | Comp | any: | - | | | - 1 | | - | | | | | | | | |
| ity: Courtsb | Dad | State: NM | Zip | : 49 | 27 | D | | Attn: | | | | | | | | | | | | | | | |
| hone #: 811- | -143-750 | 3 Fax #: | | | 000 | ~ | 1 | Addre | ess: | | | | | | | | | | | | | | T |
| roject #: DBD | 2057040 | Project Owne | er: | | | | 0 | City: | | | | | | | | | | | | | | | |
| Project Name: | 195AU241 | \$ | | | | | 5 | State | | Zip | | | | | | | | | | | | | |
| Project Location: 2 | 28110100 | 108.502 | 2 | | | | F | hon | e #: | | | | | | S | | | | | | | | |
| Sampler Name: | alianna | Falcom | | a | | | F | Fax # | | | | | | | 2 | | | | | | | | |
| FOR LAB USE ONLY | LALL VI S IV S | | | Π | N | ATRI | X | PF | RESER | V. | SAMP | LING | | X | 3. | | | | | | | | |
| | | | (C)OMP | | Y | | | | | 1 | | | T | 12 | 0 | | | | | | | | |
| | 0 | 10 | | # CONTAINERS | GROUNDWATER | | | ú | Y | | | | T | 5 | 5 | | | | | | | | |
| Lab I.D. | Sample | 9 I.D. | (G)RAB OR | ITAI | LEW | | B | OTHER : ACID/BASE | ICE / COOL | Y. | | | 1 | 1× | C | | | | | | | | |
| 12271.97 | | | G)RA | CO CO | VAST | SOIL | SLUDGE | ACID/BA | ICE / CO | | DATE | TIME | | | | | | | | - | | _ | |
| 4232697 | ESM M | 4' | č | 1 | 0 > | X | 0) | | X | S | 25/23 | 1230 | X | X | X | | | | | | | | |
| 2 5 | F502 10 | 4' | Ĭ | 1 | | Î | | | Î | | 1 | 1235 | 1 | | 1 | | | _ | - | - | | _ | 4 |
| 35 | WOT Q | 0-4! | | | | | | | | | | 1240 | | 11 | 11_ | | - | _ | + | - | | | 4 |
| 4.0 | WO3 D | 0-4 | | | | | | + | 11 | - | 1 | 1245 | | | 11 . | | - | | - | | | - | - |
| 5 F | 303 @ | 4' | 14 | | - | V | | + | V | - | V | 12.20 | V | V | W | | - | - | + | - | | - | 1 |
| | - | | + | ++ | - | - | + + | + | ++ | + | 1.00 | - | - | - | - | | | - | + | | | | 1 |
| | | | + | H | - | - | + | + | ++ | + | - | | | - | | | | | - | | | | 1 |
| | | | + | H | | | | + | | + | | | | | | | | | | | | | |
| | | | t | H | - | | | | | | | | | | | | | | | | | | |
| LEASE NOTE: Liability and Da malyses. All claims including the | | | | | | | | | | | | | | able | | | | | | | | | |
| enalyses. All claims including the envice. In no event shall Cardina effiliates or suppessors arising ou | | | | | | | | | | | | | | | | | | | | _ | | | _ |
| Relinquished By: | | Date: Stal 1/2 | 3 R | eceiy | ed By | ., | | | | | | Verbal R All Result | | □ Y emailed | | No se provi | Add'l Ph de Emai | | s: | 1 | 1 | 0 | |
| Valler | Matto | Time: | | -11 | M | N | | | | | | hip | min | 1012 | Del | ASU | um | .Con | 11 | alco | mate | Ya |) |
| Relinquished By: | 110000 | Date: 26-2 | ZR | eceiv | ed By | | | | n | 11 | 1 | REMARK | S: | T | | | | 0411 | .7 | | | (| |
| Hartha | | Time | ~ | | 11 | 11/ | HA | 16 | Ma | ab | Sel | NAF | PD | 12 | 190 | SUT | 157 | | | | | | |
| Delivered By:-{Circl | le One) | Observed Temp. * | c / | 4 | San | nple C | onditi | on | CHE | CKED | BY: | Turnarou | nd Tin | ne: | | dard | | | | Sample C | ondition | ~ | |
| | | | | | Co | ol In | tact | | (| Initials | ;) | Thermome | | | Rus | 46hr | | Yes | Yes | | d Temp. ° | | |
| Sampler - UPS - Bu | is - Other: | Corrected Temp. | 20 | 10 | 1 | Yes No | | | A | 0 | 4 | Correction | | | | 1011 | | No | No | Correcte | ed Temp. ° | С | |

Page 31 of 90

Released to Imaging: 9/29/2023 12:01:00 PM



June 02, 2023

KALEI JENNINGS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EVGSAU 2418 - 001

Enclosed are the results of analyses for samples received by the laboratory on 05/31/23 11:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 05/31/2023 | Sampling Date: | 05/31/2023 |
|-------------------|-------------------------------|---------------------|----------------|
| Reported: | 06/02/2023 | Sampling Type: | Soil |
| Project Name: | EVGSAU 2418 - 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 03D2057044 | Sample Received By: | Tamara Oldaker |
| Project Location: | MAVERICK 32.81660, -103.50212 | | |

Sample ID: SS 01 @ .5' (H232754-01)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.37 | 119 | 2.00 | 4.50 | |
| Toluene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.36 | 118 | 2.00 | 4.88 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.29 | 115 | 2.00 | 3.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/01/2023 | ND | 6.94 | 116 | 6.00 | 2.84 | |
| Total BTEX | <0.300 | 0.300 | 06/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | Analyzed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 05/31/2023 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2023 | ND | 175 | 87.6 | 200 | 1.30 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/31/2023 | ND | 168 | 83.8 | 200 | 3.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/31/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 100 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 99.8 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To: | | |
|-------------------|-------------------|---------------------------------------------------------------------------------------|---------------------|----------------|
| Received: | 05/31/2023 | | Sampling Date: | 05/31/2023 |
| Reported: | 06/02/2023 | | Sampling Type: | Soil |
| Project Name: | EVGSAU 2418 - 001 | | Sampling Condition: | Cool & Intact |
| Project Number: | 03D2057044 | | Sample Received By: | Tamara Oldaker |
| Project Location: | MAVERICK 32.81660 |), -103.50212 | | |

Sample ID: SS 02 @ .5' (H232754-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|---------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.37 | 119 | 2.00 | 4.50 | |
| Toluene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.36 | 118 | 2.00 | 4.88 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.29 | 115 | 2.00 | 3.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/01/2023 | ND | 6.94 | 116 | 6.00 | 2.84 | |
| Total BTEX | <0.300 | 0.300 | 06/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 05/31/2023 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2023 | ND | 175 | 87.6 | 200 | 1.30 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/31/2023 | ND | 168 | 83.8 | 200 | 3.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/31/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 97.0% 48.2-13 | | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 97.3 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 05/31/2023 | Sampling Date: | 05/31/2023 |
|-------------------|-------------------------------|---------------------|----------------|
| Reported: | 06/02/2023 | Sampling Type: | Soil |
| Project Name: | EVGSAU 2418 - 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 03D2057044 | Sample Received By: | Tamara Oldaker |
| Project Location: | MAVERICK 32.81660, -103.50212 | | |

Sample ID: SS 03 @ .5' (H232754-03)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.37 | 119 | 2.00 | 4.50 | |
| Toluene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.36 | 118 | 2.00 | 4.88 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.29 | 115 | 2.00 | 3.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/01/2023 | ND | 6.94 | 116 | 6.00 | 2.84 | |
| Total BTEX | <0.300 | 0.300 | 06/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 05/31/2023 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2023 | ND | 175 | 87.6 | 200 | 1.30 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/31/2023 | ND | 168 | 83.8 | 200 | 3.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/31/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 101 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 102 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 05/31/2023 | Sampling Date: | 05/31/2023 |
|-------------------|-------------------------------|---------------------|----------------|
| Reported: | 06/02/2023 | Sampling Type: | Soil |
| Project Name: | EVGSAU 2418 - 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 03D2057044 | Sample Received By: | Tamara Oldaker |
| Project Location: | MAVERICK 32.81660, -103.50212 | | |

Sample ID: SS 04 @ .5' (H232754-04)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.37 | 119 | 2.00 | 4.50 | |
| Toluene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.36 | 118 | 2.00 | 4.88 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/01/2023 | ND | 2.29 | 115 | 2.00 | 3.67 | |
| Total Xylenes* | <0.150 | 0.150 | 06/01/2023 | ND | 6.94 | 116 | 6.00 | 2.84 | |
| Total BTEX | <0.300 | 0.300 | 06/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 05/31/2023 | ND | 384 | 96.0 | 400 | 4.08 | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/31/2023 | ND | 175 | 87.6 | 200 | 1.30 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/31/2023 | ND | 168 | 83.8 | 200 | 3.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/31/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 67.9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 68.7 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
|------|-------------------------------------------------------------------------------------------------------------------------------------|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

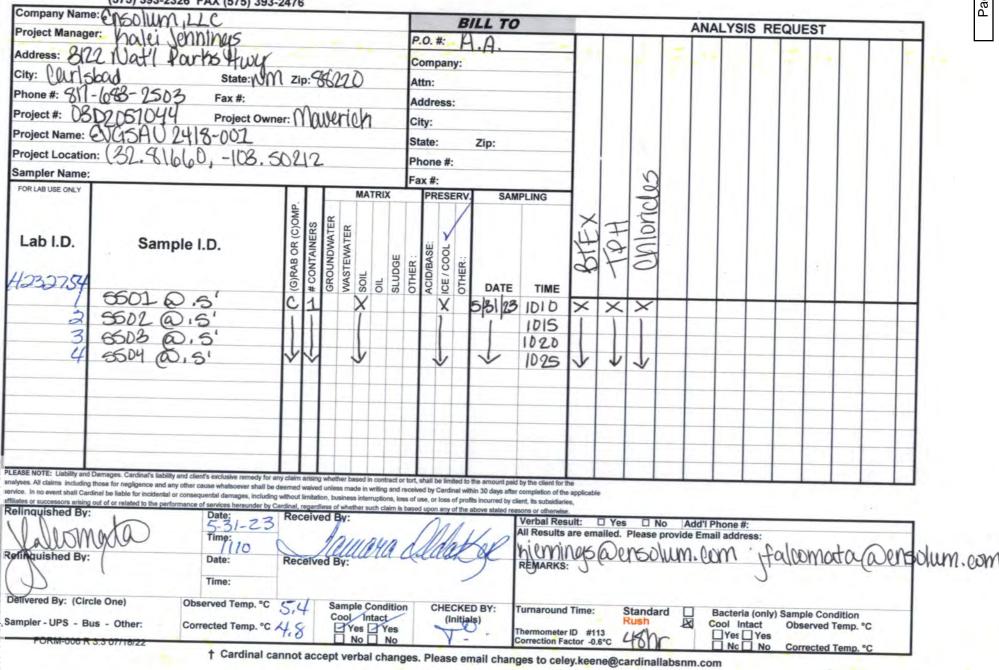
Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476



Received by OCD: 7/7/2023 9:29:58 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/6/2023 9:45:30 AM Revision 1

JOB DESCRIPTION

Buckeye EVG 43-01 SDG NUMBER 03D2057035

JOB NUMBER

890-3926-1

EOL

D FO Jenning Ensolu enfeld S Suite 40 as 7970 M Revisio

3/2023 S Bucl UMBI

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Received by OCD: 7/7/2023 9:29:58 AM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 2/6/2023 9:45:30 AM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3926-1 SDG: 03D2057035

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| | |

2

Client: Ensolum Project/Site: Buckey

Qualifiers

GC Semi VOA Qualifier

GC VOA Qualifier

S1-

U

S1-

HPLC/IC Qualifier

U

F1

U

| | | - Pa |
|--|--|------|
| | | |

age 42 of 90

| Definitions/Glossary | 1 |
|-----------------------------------------------------------------------------|---------|
| Job ID: 890-3 | 3926-1 |
| Buckeye EVG 43-01 SDG: 03D20 | 57035 2 |
| | 3 |
| Qualifier Description | 4 |
| Surrogate recovery exceeds control limits, low biased. | |
| Indicates the analyte was analyzed for but not detected. | 5 |
| Α | |
| Qualifier Description | |
| Surrogate recovery exceeds control limits, low biased. | |
| Indicates the analyte was analyzed for but not detected. | |
| Qualifier Description | 8 |
| MS and/or MSD recovery exceeds control limits. | |
| Indicates the analyte was analyzed for but not detected. | 9 |
| | 10 |
| These commonly used abbyentiations may as may not be present in this report | |

| Glossary | |
|----------------|-------------------------------------------------------------------------------------------------------------|
| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
| ¤ | 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

Job ID: 890-3926-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3926-1

REVISION

The report being provided is a revision of the original report sent on 2/5/2023. The report (revision 1) is being revised due to Per client email, requesting site name update.

Report revision history

Receipt

The samples were received on 1/23/2023 4:24 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 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-3926-1), FS02 (890-3926-2), FS03 (890-3926-3), FS04 (890-3926-4), SW01 (890-3926-5) and SW02 (890-3926-6).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-45266/5-A). 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3922-A-1-C MS) and (890-3922-A-1-D MSD). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44792 and analytical batch 880-44926 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Job ID: 890-3926-1 SDG: 03D2057035

Client Sample Results

RL

0.00198

0.00198

0.00198

0.00396

0.00198

0.00396

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: Buckeye EVG 43-01

Client Sample ID: FS01 Date Collected: 01/20/23 12:10 Date Received: 01/23/23 16:24 Sample Depth: 3'

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Result Qualifier

<0.00198 U

<0.00198 U

<0.00198 U

<0.00396 U

<0.00198 U

<0.00396 U

%Recovery Qualifier

95

102

| Lab Sample ID: 890- | -3926-1 |
|---------------------|-----------|
| Matr | ix: Solid |
| | |
| | |
| | |

D

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

| Lab Sample ID: 890-3926-1 Matrix: Solid | | | | | | | | |
|--------------------------------------------|----------------|---------|--|--|--|--|--|--|
| | | | | | | | | |
| Prepared | Analyzed | Dil Fac | | | | | | |
| 02/02/23 13:22 | 02/03/23 02:07 | 1 | | | | | | |
| 02/02/23 13:22 | 02/03/23 02:07 | 1 | | | | | | |
| 02/02/23 13:22 | 02/03/23 02:07 | 1 | | | | | | |
| 02/02/23 13:22 | 02/03/23 02:07 | 1 | | | | | | |
| 02/02/23 13:22 | 02/03/23 02:07 | 1 | | | | | | |
| 02/02/23 13:22 | 02/03/23 02:07 | 1 | | | | | | |
| Prepared | Analyzed | Dil Fac | | | | | | |
| 02/02/23 13:22 | 02/03/23 02:07 | 1 | | | | | | |
| 02/02/23 13:22 | 02/03/23 02:07 | 1 | | | | | | |
| Broporod | Applyzod | | | | | | | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------------|--------------|------------|------------|-------|---|----------------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 02/03/23 10:22 | 1 |
| - Method: SW846 8015 NM - Die | esel Range (| Organics (| DRO) (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 02/05/23 09:18 | 1 |
| | Diesel Range | • Organics | (DRO) (GC) | | | | | |
| Analyte | - | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 14:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 14:30 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 14:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | 93 | | 70 - 130 | | | 02/02/23 13:37 | 02/04/23 14:30 | |
| o-Terphenyl | 104 | | 70 - 130 | | | 02/02/22 12.27 | 02/04/23 14:30 | |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | |
|----------------------------------------------------------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 10600 | F1 | 100 | mg/Kg | | | 01/27/23 20:44 | 20 |

Client Sample ID: FS02 Date Collected: 01/20/23 12:15 Date Received: 01/23/23 16:24 Sample Depth: 0.5'

| Method: SW846 8021B - Vo Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | | | | | | | | |
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/02/23 13:22 | 02/03/23 02:33 | .1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 02/02/23 13:22 | 02/03/23 02:33 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/02/23 13:22 | 02/03/23 02:33 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 02/02/23 13:22 | 02/03/23 02:33 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 02/02/23 13:22 | 02/03/23 02:33 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 02/02/23 13:22 | 02/03/23 02:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | 02/02/23 13:22 | 02/03/23 02:33 | 1 |

Eurofins Carlsbad

Job ID: 890-3926-1

SDG: 03D2057035

Lab Sample ID: 890-3926-2

Matrix: Solid

Client: Ensolum

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

1,4-Difluorobenzene (Surr)

Client Sample Results

Limits

70 - 130

0.00402

RL

RL

49.9

Unit

Unit

mg/Kg

mg/Kg

Page 45 of 90

Dil Fac

Dil Fac

Dil Fac

1

Job ID: 890-3926-1 SDG: 03D2057035

Client Sample ID: FS02 Date Collected: 01/20/23 12:15

Project/Site: Buckeye EVG 43-01

Date Received: 01/23/23 16:24 Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

%Recovery Qualifier

Result Qualifier

Result Qualifier

<49.9 U

92

<0.00402 U

Lab Sample ID: 890-3926-2

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 14:52 | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 14:52 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 14:52 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 91 | | 70 - 130 | | | 02/02/23 13:37 | 02/04/23 14:52 | 1 |
| o-Terphenyl | 102 | | 70 - 130 | | | 02/02/23 13:37 | 02/04/23 14:52 | 1 |

| method. Er A 500.0 - Amons, fon omonatography - Soluble | | | | | | | |
|---------------------------------------------------------|------------------|------|-------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 3670 | 25.0 | mg/Kg | | | 01/27/23 21:03 | 5 |

Client Sample ID: FS03 Date Collected: 01/20/23 12:20 Date Received: 01/23/23 16:24

Sample Depth: 3' Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RI Unit D Prepared Dil Fac Analyzed Benzene < 0.00199 Ū 0.00199 mg/Kg 02/02/23 13:22 02/03/23 02:59 Toluene <0.00199 U 0.00199 mg/Kg 02/02/23 13:22 02/03/23 02:59 Ethylbenzene <0.00199 U 0.00199 mg/Kg 02/02/23 13:22 02/03/23 02:59 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 02/02/23 13:22 02/03/23 02:59 o-Xylene <0.00199 U 0.00199 mg/Kg 02/02/23 13:22 02/03/23 02:59 Xylenes, Total <0.00398 U 0.00398 mg/Kg 02/02/23 13:22 02/03/23 02:59 Surrogate %Recoverv Qualifier Limits Prepared Analvzed Dil Fac 70 - 130 02/02/23 13:22 02/03/23 02:59 4-Bromofluorobenzene (Surr) 109 1,4-Difluorobenzene (Surr) 105 70 - 130 02/02/23 13:22 02/03/23 02:59 Method: TAL SOP Total BTEX - Total BTEX Calculation Analvte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 mg/Kg 02/03/23 10:22

| Method: SW846 8015 NM - Die | sel Range (| Organics (| (DRO) (GC) | | | | | |
|-----------------------------|-------------|------------|------------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 02/05/23 09:18 | 1 |

Eurofins Carlsbad

02/02/23 13:22 02/03/23 02:33

Analyzed

Analyzed

02/03/23 10:22

Analyzed

02/05/23 09:18

Lab Sample ID: 890-3926-3

Matrix: Solid

1

1

1

1

1

1

1

1

Prepared

Prepared

Prepared

D

D

Released to Imaging: 9/29/2023 12:01:00 PM

Client Sample Results

Client: Ensolum Project/Site: Buckeye EVG 43-01

Client Sample ID: FS03 Date Collected: 01/20/23 12:20

Date Received: 01/23/23 16:24 Sample Depth: 3'

| Analyte | Diesel Range Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|----------------------------|----------------|---|----------------|----------------------------------|--------------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | | 49.9 | mg/Kg | | · · · | 02/04/23 15:13 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 15:13 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 15:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 92 | | 70 - 130 | | | 02/02/23 13:37 | 02/04/23 15:13 | 1 |
| o-Terphenyl | 100 | | 70 - 130 | | | 02/02/23 13:37 | 02/04/23 15:13 | 1 |
| Method: EPA 300.0 - Anions, Analyte | | tography Qualifier | - Soluble _{RL} | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 3310 | quamer | 24.9 | mg/Kg | | | 01/27/23 21:09 | 5 |
| | 0010 | | 21.0 | iiig/itg | | | | |
| Client Sample ID: FS04 Date Collected: 01/20/23 12:25 Date Received: 01/23/23 16:24 Sample Depth: 0.5' | | | | | | Lab Samp | le ID: 890-3 Matrix | 3926-4 (: Solid |
| Method: SW846 8021B - Vola | - | | | 11.74 | _ | Durand | A | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | | | 0.00199 | mg/Kg | | | 02/03/23 03:25 | 1 |
| Toluene | < 0.00199 | | 0.00199 | mg/Kg | | | 02/03/23 03:25 | 1 |
| Ethylbenzene | <0.00199 | | 0.00199 | mg/Kg | | | 02/03/23 03:25 | 1 |
| m-Xylene & p-Xylene | <0.00398 | | 0.00398 | mg/Kg | | | 02/03/23 03:25 | 1 |
| o-Xylene Xylenes, Total | <0.00199 <0.00398 | | 0.00199 0.00398 | mg/Kg mg/Kg | | | 02/03/23 03:25 02/03/23 03:25 | 1 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | | 02/02/23 13:22 | 02/03/23 03:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | 02/02/23 13:22 | 02/03/23 03:25 | 1 |
| Method: TAL SOP Total BTEX | (- Total BTE | X Calcula | tion | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/03/23 10:22 | 1 |
| Method: SW846 8015 NM - Di | | - | | | _ | | | |
| Analyte | | Qualifier | | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 02/05/23 09:18 | 1 |
| Method: SW846 8015B NM - I | | - | | 11:4 | | Dranavad | Anolymod | |
| Analyte | Kesult <50.0 | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | | | 50.0 | mg/Kg | | | 02/04/23 15:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | | 50.0 | mg/Kg | | | 02/04/23 15:34 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/02/23 13:37 | 02/04/23 15:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

Job ID: 890-3926-1 SDG: 03D2057035

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Lab Sample ID: 890-3926-3 Matrix: Solid

Released to Imaging: 9/29/2023 12:01:00 PM

1-Chlorooctane

o-Terphenyl

70 - 130

70 - 130

88

| | | Client | t Sample Re | sults | | | | |
|-----------------------------------------------------------------------------------------------------------------|--------------|------------------------------------|-----------------|-------|---|----------------|------------------------|--------------------|
| Client: Ensolum | | | | | | | Job ID: 890- | -3926-1 |
| Project/Site: Buckeye EVG 43-01 | | | | | | | SDG: 03D2 | 057035 |
| Client Sample ID: FS04 Date Collected: 01/20/23 12:25 Date Received: 01/23/23 16:24 Sample Depth: 0.5' | | | | | | Lab Samp | le ID: 890-3 Matrix | 8926-4 (: Solid |
| Method: EPA 300.0 - Anions, I Analyte | | <mark>tography</mark> Qualifier | - Soluble RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 78.8 | | 4.95 | mg/Kg | | ·· | 01/27/23 21:27 | 1 |
| - Oliant Comple ID: OM/04 | | | | | | Lab Camp | | 000 5 |
| Client Sample ID: SW01 Date Collected: 01/20/23 12:45 Date Received: 01/23/23 16:24 Sample Depth: 0-3' | | | | | | | le ID: 890-3 Matrix | c: Solid |
| Method: SW846 8021B - Volat | ile Organic | Compour | ids (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/03/23 03:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/03/23 03:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/03/23 03:51 | 1 |
| m-Xylene & p-Xylene | < 0.00399 | U | 0.00399 | mg/Kg | | 02/02/23 13:22 | 02/03/23 03:51 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/03/23 03:51 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 02/02/23 13:22 | 02/03/23 03:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | 02/02/23 13:22 | 02/03/23 03:51 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | 02/02/23 13:22 | 02/03/23 03:51 | 1 |
| Method: TAL SOP Total BTEX | - Total BTE | X Calcula | tion | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 02/03/23 10:22 | 1 |
| | esel Range | Organics | (DRO) (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 02/05/23 09:18 | 1 |
| | liosol Range | Organic | | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <49.9 | | 49.9 | mg/Kg | | 02/02/23 13:37 | | 1 |
| (GRO)-C6-C10 Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 16:17 | 1 |
| C10-C28) Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 16:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 93 | | 70 - 130 | | | 02/02/23 13:37 | 02/04/23 16:17 | 1 |
| o-Terphenyl | 103 | | 70 - 130 | | | 02/02/23 13:37 | 02/04/23 16:17 | 1 |
| Method: EPA 300.0 - Anions, I | on Chroma | tography | - Soluble | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 8430 | | 50.0 | | | - | - | |

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Client Sample Results

Client: Ensolum Project/Site: Buckeye EVG 43-01

Client Sample ID: SW02 Date Collected: 01/20/23 12:50 Date Received: 01/23/23 16:24 Sample Depth: 0-3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| SI |
|----|
| |

Job ID: 890-3926-1 SDG: 03D2057035

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Lab Sample ID: 890-3926-6

Matrix: Solid

| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------------|---------------|------------|------------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/03/23 04:17 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/03/23 04:17 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/03/23 04:17 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 02/02/23 13:22 | 02/03/23 04:17 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/03/23 04:17 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 02/02/23 13:22 | 02/03/23 04:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | | | 02/02/23 13:22 | 02/03/23 04:17 | 1 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | | | 02/02/23 13:22 | 02/03/23 04:17 | 1 |
| - Method: TAL SOP Total BTEX | (- Total BTE | X Calculat | ion | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 02/03/23 10:22 | 1 |
| | esel Range | Organics (| DRO) (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 02/05/23 09:18 | 1 |
| _ Method: SW846 8015B NM - I | Diesel Range | e 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 | | 02/02/23 13:37 | 02/04/23 16:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 16:38 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 16:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 104 | | 70 - 130 | | | 02/02/23 13:37 | 02/04/23 16:38 | 1 |
| o-Terphenyl | 114 | | 70 - 130 | | | 02/02/23 13:37 | 02/04/23 16:38 | 1 |
| - | | tography - | Soluble | | | | | |
| Method: EPA 300.0 - Anions, | ion Unroma | tography - | | | | | | |
| Method: EPA 300.0 - Anions, Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

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Surrogate Summary

Client: Ensolum Project/Site: Buckeye EVG 43-01

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

| | | | Percer | t Surrogate Recovery |
|---------------------|------------------------|----------|----------|----------------------|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-3919-A-16-C MS | Matrix Spike | 92 | 107 | |
| 890-3919-A-16-D MSD | Matrix Spike Duplicate | 94 | 109 | |
| 890-3926-1 | FS01 | 95 | 102 | |
| 890-3926-2 | FS02 | 103 | 92 | |
| 890-3926-3 | FS03 | 109 | 105 | |
| 890-3926-4 | FS04 | 105 | 99 | |
| 890-3926-5 | SW01 | 104 | 94 | |
| 890-3926-6 | SW02 | 110 | 108 | |
| LCS 880-45266/1-A | Lab Control Sample | 88 | 107 | |
| LCSD 880-45266/2-A | Lab Control Sample Dup | 87 | 104 | |
| MB 880-45266/5-A | Method Blank | 63 S1- | 96 | |

DFBZ = 1,4-Difluorobenzene (Surr)

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

| | | | Perce |
|--------------------|------------------------|----------|----------|
| | | 1CO1 | OTPH1 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 890-3922-A-1-C MS | Matrix Spike | 17 S1- | 10 S1- |
| 890-3922-A-1-D MSD | Matrix Spike Duplicate | 14 S1- | 9 S1- |
| 890-3926-1 | FS01 | 93 | 104 |
| 890-3926-2 | FS02 | 91 | 102 |
| 890-3926-3 | FS03 | 92 | 100 |
| 890-3926-4 | FS04 | 88 | 97 |
| 890-3926-5 | SW01 | 93 | 103 |
| 890-3926-6 | SW02 | 104 | 114 |
| LCS 880-45267/2-A | Lab Control Sample | 87 | 91 |
| LCSD 880-45267/3-A | Lab Control Sample Dup | 85 | 90 |
| MB 880-45267/1-A | Method Blank | 112 | 123 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Released to Imaging: 9/29/2023 12:01:00 PM

Job ID: 890-3926-1 SDG: 03D2057035

Prep Type: Total/NA 5 6

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Client: Ensolum

Project/Site: Buckeye EVG 43-01

Matrix: Solid

Lab Sample ID: MB 880-45266/5-A

Method: 8021B - Volatile Organic Compounds (GC)

| Analysis Batch: 45278 | | | | | | | Prep Batch: | 45266 |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | MB | MB | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/02/23 18:47 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/02/23 18:47 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/02/23 18:47 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/02/23 13:22 | 02/02/23 18:47 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/02/23 13:22 | 02/02/23 18:47 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/02/23 13:22 | 02/02/23 18:47 | 1 |
| | MB | МВ | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 63 | S1- | 70 - 130 | | | 02/02/23 13:22 | 02/02/23 18:47 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | | | 02/02/23 13:22 | 02/02/23 18:47 | 1 |

Lab Sample ID: LCS 880-45266/1-A Matrix: Solid Analysis Batch: 45278

| ······,······························· | Spike | LCS | LCS | | | | %Rec | |
|----------------------------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1088 | | mg/Kg | | 109 | 70 - 130 | |
| Toluene | 0.100 | 0.09587 | | mg/Kg | | 96 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09476 | | mg/Kg | | 95 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1927 | | mg/Kg | | 96 | 70 - 130 | |
| o-Xylene | 0.100 | 0.1001 | | mg/Kg | | 100 | 70 - 130 | |

| | LCS | LCS | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 |

Lab Sample ID: LCSD 880-45266/2-A Matrix: Solid

Analysis Batch: 45278

| Analysis Batch: 45278 | | | | | | | | atch: 45266 | | |
|-----------------------|-------|---------|-----------|-------|---|------|----------|-------------|-------|--|
| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 0.100 | 0.09665 | | mg/Kg | | 97 | 70 - 130 | 12 | 35 | |
| Toluene | 0.100 | 0.1019 | | mg/Kg | | 102 | 70 - 130 | 6 | 35 | |
| Ethylbenzene | 0.100 | 0.1030 | | mg/Kg | | 103 | 70 - 130 | 8 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.2070 | | mg/Kg | | 103 | 70 - 130 | 7 | 35 | |
| o-Xylene | 0.100 | 0.1036 | | mg/Kg | | 104 | 70 - 130 | 4 | 35 | |

| | LCSD | LCSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 |

Lab Sample ID: 890-3919-A-16-C MS Matrix: Solid

| Matrix: Solid Analysis Batch: 45278 | | | | | | | | | | pe: Total/NA Batch: 45266 |
|----------------------------------------|----------|-----------|-------|--------|-----------|-------|---|------|----------|------------------------------|
| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00201 | U | 0.100 | 0.1131 | | mg/Kg | | 113 | 70 - 130 | |
| Toluene | <0.00201 | U | 0.100 | 0.1045 | | mg/Kg | | 104 | 70 - 130 | |

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Client Sample ID: Matrix Spike

5

7

Job ID: 890-3926-1

SDG: 03D2057035

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 45266

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client: Ensolum Project/Site: Buckeye EVG 43-01

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

| Lab Sample ID: 890-3919 Matrix: Solid Analysis Batch: 45278 | -A-16-C MS | | | | | | CI | ient Sa | mple ID: Prep Ty Prep E | | al/NA |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------|---------------------------------|-----------|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|
| | Sample | Sample | Spike | MS | MS | | | | %Rec | | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Ethylbenzene | <0.00201 | U | 0.100 | 0.1062 | | mg/Kg | | 106 | 70 - 130 | | |
| m-Xylene & p-Xylene | < 0.00402 | U | 0.200 | 0.2118 | | mg/Kg | | 106 | 70 - 130 | | |
| o-Xylene | <0.00201 | U | 0.100 | 0.1032 | | mg/Kg | | 103 | 70 - 130 | | |
| | MS | MS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| | 92 | | 70 - 130 | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 01 | | | | | | | | | | |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid | 107 |) | 70 - 130 | | | Client S | Samp | le ID: N | latrix Spil Prep Ty | pe: Tot | al/NA |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 | 107 - A-16-D MS D | Sample | 70 - 130 Spike | MSD | MSD | Client S | Samp | le ID: N | Prep Ty | | al/NA |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid | 107 I-A-16-D MSD Sample | | | - | MSD Qualifier | Client S | Samp D | le ID: N %Rec | Prep Ty Prep E | pe: Tot | al/NA 45266 |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid Analysis Batch: 45278 | 107 I-A-16-D MSD Sample | Sample Qualifier | Spike | - | - | | | | Prep Ty Prep E %Rec | pe: Tot Batch: 4 | al/NA 45266 RPD |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid Analysis Batch: 45278 Analyte | 107 -A-16-D MSD Sample Result | Sample Qualifier U | Spike Added | Result | - | Unit | | %Rec | Prep Ty Prep E %Rec Limits | pe: Tot Batch: 4 | al/NA 45266 RPD Limit |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid Analysis Batch: 45278 Analyte Benzene | 107 -A-16-D MSD Sample Result <0.00201 | Sample Qualifier U | Spike <u>Added</u> 0.0990 | Result 0.1138 | - | Unit mg/Kg | | %Rec 115 | Prep Ty Prep E %Rec Limits 70 - 130 | pe: Tot Batch: 4 | al/NA 45266 RPD Limit 35 |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid Analysis Batch: 45278 Analyte Benzene Toluene | 107 -A-16-D MSC Sample Result <0.00201 <0.00201 | Sample Qualifier U U U | Spike Added 0.0990 0.0990 | Result 0.1138 0.1035 | - | Unit mg/Kg mg/Kg | | %Rec 115 105 | Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 | pe: Tot Batch: 4 <u>RPD</u> 1 1 | al/NA 45266 RPD Limit 35 35 |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid Analysis Batch: 45278 Analyte Benzene Toluene Ethylbenzene | 107 -A-16-D MSC Sample Result <0.00201 <0.00201 <0.00201 | Sample Qualifier U U U U | Spike Added 0.0990 0.0990 0.0990 | Result 0.1138 0.1035 0.1029 | - | Unit mg/Kg mg/Kg mg/Kg | | %Rec 115 105 104 | Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 | pe: Tot Batch: 4 <u>RPD</u> 1 1 3 | al/NA 45266 RPD Limit 35 35 35 |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid Analysis Batch: 45278 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene | 107 -A-16-D MSC Sample Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00402 | Sample Qualifier U U U U U U | Spike Added 0.0990 0.0990 0.0990 0.0990 0.198 | Result 0.1138 0.1035 0.1029 0.2053 | - | Unit mg/Kg mg/Kg mg/Kg | | %Rec 115 105 104 104 | Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 | pe: Tot Batch: 4 <u>RPD</u> 1 1 3 3 | al/NA 45266 RPD Limit 35 35 35 35 |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid Analysis Batch: 45278 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene | 107 -A-16-D MSC Sample Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00402 <0.00201 | Sample Qualifier U U U U U U U MSD | Spike Added 0.0990 0.0990 0.0990 0.0990 0.198 | Result 0.1138 0.1035 0.1029 0.2053 | - | Unit mg/Kg mg/Kg mg/Kg | | %Rec 115 105 104 104 | Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 | pe: Tot Batch: 4 <u>RPD</u> 1 1 3 3 | al/NA 45266 RPD Limit 35 35 35 35 |
| 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3919 Matrix: Solid Analysis Batch: 45278 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene | 107 -A-16-D MSC Sample Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00201 <0.00201 MSD | Sample Qualifier U U U U U U U MSD | Spike Added 0.0990 0.0990 0.0990 0.0990 0.198 0.0990 | Result 0.1138 0.1035 0.1029 0.2053 | - | Unit mg/Kg mg/Kg mg/Kg | | %Rec 115 105 104 104 | Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 | pe: Tot Batch: 4 <u>RPD</u> 1 1 3 3 | al/NA 45266 RPD Limit 35 35 35 35 |

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

Lab Sample ID: MB 880-45267/1-A Matrix: Solid Analysis Batch: 45445

| | MB | MB | | | | | | |
|-----------------------------------------|-----------|-----------|--------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 08:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 08:56 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | | 49.9 | mg/Kg | | 02/02/23 13:37 | 02/04/23 08:56 | 1 |
| | MB | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery 0 | Qualifier | Limits |
|----------------|-------------|-----------|----------|
| 1-Chlorooctane | 112 | | 70 - 130 |
| o-Terphenyl | 123 | | 70 - 130 |

Lab Sample ID: LCS 880-45267/2-A Matrix: Solid Analysis Batch: 45445

| Analysis Batch: 45445 | | | | | | | Prep B | atch: 45267 |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-------------|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 999 | 888.9 | | mg/Kg | | 89 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 999 | 860.4 | | mg/Kg | | 86 | 70 - 130 | |
| C10-C28) | | | | | | | | |

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Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 45267

Prep Type: Total/NA

1

1

02/02/23 13:37 02/04/23 08:56

02/02/23 13:37 02/04/23 08:56

Client Sample ID: Lab Control Sample

Client: Ensolum Project/Site: Buckeye EVG 43-01

Method: 8015B NM

| Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Conti | inued) |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Lab Cample ID: 1 CC 990 / 5267/2 A | mueu) |
| Lab Sample ID: LCS 880-45267/2-A | Client Sample ID: Lab Control Sample |
| Matrix: Solid | Prep Type: Total/NA |
| Analysis Batch: 45445 | Prep Batch: 45267 |
| LCS LCS | |
| Surrogate %Recovery Qualifier Limits | |
| $\frac{1-Chlorooctane}{1-Chlorooctane} \qquad \frac{1-Chlorooctary}{87} \frac{1-Chlorooctar}{70-130}$ | |
| o-Terphenyl 91 70 - 130 | |
| | City of Council (Delicity Countries) Councils Dur |
| Lab Sample ID: LCSD 880-45267/3-A Matrix: Solid | Client Sample ID: Lab Control Sample Dup |
| Matrix: Solid Analysis Batch: 45445 | Prep Type: Total/NA Prep Batch: 45267 |
| Spike LCSD LCSD | |
| Analyte Added Result Qualif | |
| Gasoline Range Organics 999 802.7 | $\frac{1}{mg/Kg} = \frac{1}{80} \frac{1}{70-130} \frac{1}{10} \frac{1}{20}$ |
| (GRO)-C6-C10 | |
| Diesel Range Organics (Over 999 831.7 C10-C28) | mg/Kg 83 70-130 3 20 |
| | |
| LCSD LCSD Surrogate "Pocovery Qualifier Limits | |
| Surrogate%RecoveryQualifierLimits1-Chlorooctane8570 - 130 | |
| o-Terphenyl 90 70 - 130 | |
| | |
| Lab Sample ID: 890-3922-A-1-C MS | Client Sample ID: Matrix Spike |
| Matrix: Solid | Prep Type: Total/NA |
| Analysis Batch: 45445 | Prep Batch: 45267 |
| Sample Sample Spike MS MS | %Rec |
| Analyte Result Qualifier Added Result Qualifier Gasoline Range Organics <50.0 | fier Unit D %Rec Limits mg/Kg - 100 70 - 130 |
| (GRO)-C6-C10 | ilig/ry io /o-ioo |
| Diesel Range Organics (Over <50.0 U 1000 1023 | mg/Kg 98 70 - 130 |
| C10-C28) | |
| MS MS | |
| Surrogate %Recovery Qualifier Limits | |
| 1-Chlorooctane 17 S1- 70 - 130 | |
| o-Terphenyl 10 S1- 70 - 130 | |
| | Client Sample ID: Matrix Spike Duplicate |
| ⊢ Lab Sample ID: 890-3922-A-1-D MSD | Prep Type: Total/NA |
| Lab Sample ID: 890-3922-A-1-D MSD Matrix: Solid | 1 T T T T T T T T T T T T T T T T T T T |
| Matrix: Solid | Prep Batch: 45267 |
| | Prep Batch: 45267 %Rec RPD |
| Matrix: Solid Analysis Batch: 45445 | %Rec RPD |
| Matrix: Solid Analysis Batch: 45445 Sample Sample Spike MSD MSD | %Rec RPD |

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 14 | S1- | 70 - 130 |
| o-Terphenyl | 9 | S1- | 70 - 130 |

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Job ID: 890-3926-1

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Client: Ensolum Project/Site: Buckeye EVG 43-01 Job ID: 890-3926-1 SDG: 03D2057035

Method: 300.0 - Anions, Ion Chromatography

| Lab Sample ID: MB 880-4479 | 2/1-A | | | | | | | | CI | ient Sar | nple ID: N | | |
|----------------------------------------|---------|---------|-----------|----------------|------|--------|------------------|---------|--------|----------|------------|----------------------------------------------|---------|
| Matrix: Solid | | | | | | | | | | | Prep T | ype: So | oluble |
| Analysis Batch: 44926 | | | | | | | | | | | | | |
| | | MB I | MB | | | | | | | | | | |
| Analyte | Re | esult (| Qualifier | | RL | | Unit | | D | Prepared | Analy | zed | Dil Fac |
| Chloride | < | 5.00 l | U | | 5.00 | | mg/K | g | | | 01/27/23 | 19:00 | 1 |
| Lab Sample ID: LCS 880-447 | 92/2-A | | | | | | | Cli | ent Sa | ample II | D: Lab Co | ntrol Sa | ample |
| Matrix: Solid | | | | | | | | | | | Prep T | ype: So | oluble |
| Analysis Batch: 44926 | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | | | | 250 | | 266.0 | | mg/Kg | | 106 | 90 - 110 | | |
| Lab Sample ID: LCSD 880-44 | 792/3-A | | | | | | c | lient S | ampl | e ID: La | b Control | Sampl | e Dup |
| Matrix: Solid | | | | | | | | | | | | ype: So | |
| Analysis Batch: 44926 | | | | | | | | | | | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | | | | Spike | | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qualifier | Unit | C | %Rec | Limits | RPD | Limit |
| Chloride | | | | 250 | | 265.4 | | mg/Kg | | 106 | 90 - 110 | 0 | 20 |
| Lab Sample ID: 890-3926-1 N | IS | | | | | | | | | C | lient Sam | ple ID: | FS01 |
| Matrix: Solid | | | | | | | | | | | | · ype: So | |
| Analysis Batch: 44926 | | | | | | | | | | | | | |
| | Sample | Samp | ole | Spike | | MS | MS | | | | %Rec | | |
| Analyte | Result | Quali | fier | Added | | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | 10600 | F1 | | 5010 | | 16480 | F1 | mg/Kg | | 117 | 90 - 110 | | |
| Lab Sample ID: 890-3926-1 N | ISD | | | | | | | | | c | lient Sam | nple ID: | FS01 |
| • | | | | | | | | | | | Prep T | - | |
| Matrix: Solid | | | | | | | | | | | | vue. a | Diuble |
| Matrix: Solid Analysis Batch: 44926 | | | | | | | | | | | i i cp i | ype. Si | oluble |
| Matrix: Solid Analysis Batch: 44926 | Sample | Samp | ble | Spike | | MSD | MSD | | | | %Rec | ype. St | RPD |
| | | • | | Spike Added | | - | MSD Qualifier | Unit | C | %Rec | | RPD | |

QC Association Summary

Client: Ensolum Project/Site: Buckeye EVG 43-01

4 5 6

8 9 10

Job ID: 890-3926-1 SDG: 03D2057035

GC VOA

Prep Batch: 45266

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3926-1 | FS01 | Total/NA | Solid | 5035 | |
| 890-3926-2 | FS02 | Total/NA | Solid | 5035 | |
| 890-3926-3 | FS03 | Total/NA | Solid | 5035 | |
| 890-3926-4 | FS04 | Total/NA | Solid | 5035 | |
| 890-3926-5 | SW01 | Total/NA | Solid | 5035 | |
| 890-3926-6 | SW02 | Total/NA | Solid | 5035 | |
| MB 880-45266/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-45266/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-45266/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3919-A-16-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3919-A-16-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 45278

| Lab Sample ID 890-3926-1 | Client Sample ID | Prep Type Total/NA | Matrix Solid | Method 8021B | Prep Batch 45266 |
|-----------------------------|------------------------|-----------------------|-----------------|-----------------|---------------------|
| 890-3926-2 | FS02 | Total/NA | Solid | 8021B | 45266 |
| 890-3926-3 | FS03 | Total/NA | Solid | 8021B | 45266 |
| 890-3926-4 | FS04 | Total/NA | Solid | 8021B | 45266 |
| 890-3926-5 | SW01 | Total/NA | Solid | 8021B | 45266 |
| 890-3926-6 | SW02 | Total/NA | Solid | 8021B | 45266 |
| MB 880-45266/5-A | Method Blank | Total/NA | Solid | 8021B | 45266 |
| LCS 880-45266/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 45266 |
| LCSD 880-45266/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 45266 |
| 890-3919-A-16-C MS | Matrix Spike | Total/NA | Solid | 8021B | 45266 |
| 890-3919-A-16-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 45266 |

Analysis Batch: 45344

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3926-1 | FS01 | Total/NA | Solid | Total BTEX | |
| 890-3926-2 | FS02 | Total/NA | Solid | Total BTEX | |
| 890-3926-3 | FS03 | Total/NA | Solid | Total BTEX | |
| 890-3926-4 | FS04 | Total/NA | Solid | Total BTEX | |
| 890-3926-5 | SW01 | Total/NA | Solid | Total BTEX | |
| 890-3926-6 | SW02 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 45267

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3926-1 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-3926-2 | FS02 | Total/NA | Solid | 8015NM Prep | |
| 890-3926-3 | FS03 | Total/NA | Solid | 8015NM Prep | |
| 890-3926-4 | FS04 | Total/NA | Solid | 8015NM Prep | |
| 890-3926-5 | SW01 | Total/NA | Solid | 8015NM Prep | |
| 890-3926-6 | SW02 | Total/NA | Solid | 8015NM Prep | |
| MB 880-45267/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-45267/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-45267/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3922-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3922-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum Project/Site: Buckeye EVG 43-01

GC Semi VOA

Analysis Batch: 45445

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-3926-1 | FS01 | Total/NA | Solid | 8015B NM | 45267 |
| 890-3926-2 | FS02 | Total/NA | Solid | 8015B NM | 45267 |
| 890-3926-3 | FS03 | Total/NA | Solid | 8015B NM | 45267 |
| 890-3926-4 | FS04 | Total/NA | Solid | 8015B NM | 45267 |
| 890-3926-5 | SW01 | Total/NA | Solid | 8015B NM | 45267 |
| 890-3926-6 | SW02 | Total/NA | Solid | 8015B NM | 45267 |
| MB 880-45267/1-A | Method Blank | Total/NA | Solid | 8015B NM | 45267 |
| LCS 880-45267/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 45267 |
| LCSD 880-45267/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 45267 |
| 890-3922-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 45267 |
| 890-3922-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 45267 |
| Analysis Batch: 4549 | 91 | | | | |

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch | |
|---------------|------------------|-----------|--------|---------|------------|--|
| 890-3926-1 | FS01 | Total/NA | Solid | 8015 NM | | |
| 890-3926-2 | FS02 | Total/NA | Solid | 8015 NM | | |
| 890-3926-3 | FS03 | Total/NA | Solid | 8015 NM | | |
| 890-3926-4 | FS04 | Total/NA | Solid | 8015 NM | | |
| 890-3926-5 | SW01 | Total/NA | Solid | 8015 NM | | |
| 890-3926-6 | SW02 | Total/NA | Solid | 8015 NM | | |
| | | | | | | |

HPLC/IC

Leach Batch: 44792

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3926-1 | FS01 | Soluble | Solid | DI Leach | |
| 890-3926-2 | FS02 | Soluble | Solid | DI Leach | |
| 890-3926-3 | FS03 | Soluble | Solid | DI Leach | |
| 890-3926-4 | FS04 | Soluble | Solid | DI Leach | |
| 890-3926-5 | SW01 | Soluble | Solid | DI Leach | |
| 890-3926-6 | SW02 | Soluble | Solid | DI Leach | |
| MB 880-44792/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-44792/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-44792/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3926-1 MS | FS01 | Soluble | Solid | DI Leach | |
| 890-3926-1 MSD | FS01 | Soluble | Solid | DI Leach | |

Analysis Batch: 44926

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3926-1 | FS01 | Soluble | Solid | 300.0 | 44792 |
| 890-3926-2 | FS02 | Soluble | Solid | 300.0 | 44792 |
| 890-3926-3 | FS03 | Soluble | Solid | 300.0 | 44792 |
| 890-3926-4 | FS04 | Soluble | Solid | 300.0 | 44792 |
| 890-3926-5 | SW01 | Soluble | Solid | 300.0 | 44792 |
| 890-3926-6 | SW02 | Soluble | Solid | 300.0 | 44792 |
| MB 880-44792/1-A | Method Blank | Soluble | Solid | 300.0 | 44792 |
| LCS 880-44792/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 44792 |
| LCSD 880-44792/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 44792 |
| 890-3926-1 MS | FS01 | Soluble | Solid | 300.0 | 44792 |
| 890-3926-1 MSD | FS01 | Soluble | Solid | 300.0 | 44792 |

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Job ID: 890-3926-1 SDG: 03D2057035

Project/Site: Buckeye EVG 43-01

Client: Ensolum

Lab Chronicle

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Job ID: 890-3926-1 SDG: 03D2057035

Matrix: Solid

Lab Sample ID: 890-3926-1

Client Sample ID: FS01 Date Collected: 01/20/23 12:10 Date Received: 01/23/23 16:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 45266 | 02/02/23 13:22 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45278 | 02/03/23 02:07 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45344 | 02/03/23 10:22 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45491 | 02/05/23 09:18 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45267 | 02/02/23 13:37 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45445 | 02/04/23 14:30 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 44792 | 01/26/23 08:32 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 20 | | | 44926 | 01/27/23 20:44 | СН | EET MID |

Lab Sample ID: 890-3926-2 **Matrix: Solid**

Lab Sample ID: 890-3926-3

Lab Sample ID: 890-3926-4

Matrix: Solid

Date Collected: 01/20/23 12:15 Date Received: 01/23/23 16:24

Client Sample ID: FS02

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|--|
| Prep Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab | |
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 45266 | 02/02/23 13:22 | MNR | EET MID | |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45278 | 02/03/23 02:33 | AJ | EET MID | |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45344 | 02/03/23 10:22 | AJ | EET MID | |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45491 | 02/05/23 09:18 | AJ | EET MID | |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45267 | 02/02/23 13:37 | DM | EET MID | |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45445 | 02/04/23 14:52 | AJ | EET MID | |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 44792 | 01/26/23 08:32 | СН | EET MID | |
| Soluble | Analysis | 300.0 | | 5 | | | 44926 | 01/27/23 21:03 | СН | EET MID | |

Client Sample ID: FS03 Date Collected: 01/20/23 12:20 Date Received: 01/23/23 16:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 45266 | 02/02/23 13:22 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45278 | 02/03/23 02:59 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45344 | 02/03/23 10:22 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45491 | 02/05/23 09:18 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45267 | 02/02/23 13:37 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45445 | 02/04/23 15:13 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 44792 | 01/26/23 08:32 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 44926 | 01/27/23 21:09 | СН | EET MID |

Client Sample ID: FS04 Date Collected: 01/20/23 12:25 Date Received: 01/23/23 16:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 45266 | 02/02/23 13:22 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45278 | 02/03/23 03:25 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45344 | 02/03/23 10:22 | AJ | EET MID |

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9

Released to Imaging: 9/29/2023 12:01:00 PM

Matrix: Solid

Client: Ensolum

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Job ID: 890-3926-1 SDG: 03D2057035

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3926-4

Lab Sample ID: 890-3926-5

Client Sample ID: FS04 Date Collected: 01/20/23 12:25 Date Received: 01/23/23 16:24

Project/Site: Buckeye EVG 43-01

| Prep Type Total/NA | Batch Type Analysis | Batch Method 8015 NM | Run | Dil Factor | Initial Amount | Final Amount | Batch Number 45491 | Prepared or Analyzed 02/05/23 09:18 | Analyst AJ | Lab EET MID |
|-----------------------|---------------------|----------------------------|-----|---------------|-------------------|-----------------|--------------------------|-------------------------------------------|---------------|--------------------|
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.01 g 1 uL | 10 mL 1 uL | 45267 45445 | 02/02/23 13:37 02/04/23 15:34 | DM AJ | EET MID EET MID |
| Soluble Soluble | Leach Analysis | DI Leach 300.0 | | 1 | 5.05 g | 50 mL | 44792 44926 | 01/26/23 08:32 01/27/23 21:27 | CH CH | EET MID EET MID |

Client Sample ID: SW01 Date Collected: 01/20/23 12:45 Date Received: 01/23/23 16:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 45266 | 02/02/23 13:22 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45278 | 02/03/23 03:51 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45344 | 02/03/23 10:22 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45491 | 02/05/23 09:18 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45267 | 02/02/23 13:37 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45445 | 02/04/23 16:17 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 44792 | 01/26/23 08:32 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 10 | | | 44926 | 01/27/23 21:34 | CH | EET MID |

Client Sample ID: SW02

Date Collected: 01/20/23 12:50 Date Received: 01/23/23 16:24

Lab Sample ID: 890-3926-6

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 45266 | 02/02/23 13:22 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45278 | 02/03/23 04:17 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45344 | 02/03/23 10:22 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45491 | 02/05/23 09:18 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45267 | 02/02/23 13:37 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45445 | 02/04/23 16:38 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 44792 | 01/26/23 08:32 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 44926 | 01/27/23 21:40 | СН | EET MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Project/Site: Buckeye EVG 43-01 Job ID: 890-3926-1 SDG: 03D2057035

Laboratory: Eurofins Midland

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

| luthority | Pro | ogram | Identification Number | Expiration Date |
|------------------------|---------------------------|-----------------------------|-------------------------------------------|------------------------------------------|
| exas | NE | LAP | T104704400-22-25 | 06-30-23 |
| The following applytor | are included in this repo | rt but the laboratory is r | not certified by the governing authority. | This list may include analytes for which |
| the agency does not o | • | it, but the laboratory is i | iot certified by the governing autionty. | |
| 0, | • | Matrix | Analyte | This list may monde analytes for white |
| the agency does not o | ffer certification. | | | |

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Method Summary

Client: Ensolum Project/Site: Buckeye EVG 43-01 Job ID: 890-3926-1 SDG: 03D2057035

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: Buckeye EVG 43-01

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3926-1 | FS01 | Solid | 01/20/23 12:10 | 01/23/23 16:24 | 3' |
| 890-3926-2 | FS02 | Solid | 01/20/23 12:15 | 01/23/23 16:24 | 0.5' |
| 890-3926-3 | FS03 | Solid | 01/20/23 12:20 | 01/23/23 16:24 | 3' |
| 890-3926-4 | FS04 | Solid | 01/20/23 12:25 | 01/23/23 16:24 | 0.5' |
| 890-3926-5 | SW01 | Solid | 01/20/23 12:45 | 01/23/23 16:24 | 0-3' |
| 890-3926-6 | SW02 | Solid | 01/20/23 12:50 | 01/23/23 16:24 | 0-3' |

Job ID: 890-3926-1 SDG: 03D2057035

Received by OCD: 7/7/2023 9:29:58₁AM

🔅 eurofins

Xenco

Environment Testing



Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

| | | | | | | | Hobb | s, inivi (| 575) 38 | 2-7550 | , Cansi | | 575) 988- | 5155 | | | | | www | .xenco | .com | Page | o | of | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------|-------------|-------------------|--------------------|-----------------------------------------|----------------------------------------|------------|---------------------------|--------------|-------------|-----------|------------|-------------------|----------|--------------------------------|-----------------------------------------------------------|-------------|--------|-----------|----------|-------------------------------------------------|-------------------------|----------|--------|
| Project Manager: | Kalei Jennings Bill to: (if different | | | | | | | t) | Kalei Jennings | | | | | | | Work Order Comments | | | | | | | | | |
| Company Name: | | lum, LLC | | | Company Name: | | | | | Ensolum, LLC | | | | | | | Program: UST/PST [] PRP[] Brownfields [] RRC [] Superfund | | | | | | | perfund | |
| Address: | 601 N Marienfeld St Suite 400 | | | | | | Address: 601 N Marienfeld St Suite 400 | | | | | | | State of Project: | | | | | | | | | | | |
| City, State ZIP: | Midland, TX 79701 City, State | | | | | | | | | | | | | | | Repo | rting: l | _evel II | Le | vel III [|] PST | UST 🛛 T | RRP | Level IV | |
| Phone: | | 683-2503 | | | | | | | n.com, hgreen@ensolum.com | | | | | | | Deliverables: EDD ADaPT Other: | | | | | | | | | |
| | 1 | | | | | | | I | T | | | | | ALVEL | e 050 | | | | | | | onvative C | odes. | | |
| Project Name: | | | | | Around | | Pres. | | r – | | _ | | ALTSI | 5 REG | | | | | | | None: NO | | Water: H ₂ O | | |
| Project Number: | 03D2057035 Routine | | | 🗌 Rush | ו | Code | - | | | | | | + | | | | | | | | | | | | |
| Project Location: | | | Lea | | Due Date: | | | 1 | | | | | | | | | 1 | | | | | Cool: Cool HCL: HC | | | |
| Sampler's Name: PO #: | | Peter | Van Pa | tten | | he day received by eceived by 4:30pm | | | | | | | 1 | | | T De ligne ge | LI ISBN D | 11111 | | | 1 1 | H ₂ SO ₄ : H ₂ | | OH: Na | |
| | IDT | Terre | Olanla | | | (Yes | - | ters | | | | | | | | | | | | | 1 1 | H ₃ PO₄: HF | | | |
| SAMPLE RECE Samples Received I | | Temp | | Thermometer | Wet Ice: | - | No | Parameters | 0.00 | | | | | | | | | | | | 1 1 | NaHSO4: N | | | |
| Cooler Custody Sea | | | 0 N/A | Correction Fa | | Thm 003 -0.2 | | Par | A: 3 | | | | | | | | | | | | 1 1 | Na2S2O3: 1 | | | |
| Sample Custody Sea | | Yes N | | Temperature | | 2 | 0 | | EP | | | | 890-3 | 3926 C | hain of | Custo | dy | | | - | 1 1 | | +NaOH: Zr | n | |
| Total Containers: | caro. | 100 11 | | Corrected Te | | 2 | .0 | 1 | DES | 15) | 021) | | | 1 | 1 | I I | | | | | | NaOH+Ascorbic Acid: SAPC | | | : SAPC |
| Sample Ide | ntificat | ion | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | | CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021) | | | | | | | | | | | Sam | ple Comm | nents | |
| FS | 01 | | Soil | 1/20/2023 | 1210 | 3' | Comp | 1 | x | x | x | | | | | | | | | | | | | | |
| FS | 02 | | Soil | 1/20/2023 | 1215 | 0.5' | Comp | 1 | x | x | x | | | | | | | | | | | | | | |
| FSC | 03 | | Soil | 1/20/2023 | 1220 | 3' | Comp | 1 | x | x | x | | | | | | | | | | | | | | |
| FS | 04 | | Soil | 1/20/2023 | 1225 | 0.5 | Comp | 1 | x | x | x | | | | | | | | | | | | | | |
| SW | 01 | | Soil | 1/20/2023 | 1245 | 0'-3' | Comp | 1 | x | x | x | | | | - | - | | - | | | | | | | |
| SW | 02 | | Soil | 1/20/2023 | 1250 | 0'-3' | Comp | 1 | x | x | _×_ | | | | | | | | | | | | | | |
| | | | | | -10 | 25 | | | | | | | | | | | | | | | | | | | |
| | | | - | 0. | Un t | CH2 | | | | | | | _ | - | | | | | | | | | | | |
| | - | | | 700 | | | | | | | | | | | | - | | | | | | | | | |
| un and a second | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Total 200.7 / 6 Circle Method(s) a | and Me | | be analy | zed | RCRA 13F TCLP/S | PLP 60 | 10: 8R | CRA | Sb A | s Ba | Be C | d Cr | Co Cu | Pb Mr | Mol | <u>vi Se</u> | Ag | <u>ri u</u> | | Hg: 1 | 1631/ | | n U V Zn 70 / 7471 | | |
| Notice: Signature of this of service. Eurofins Xen of Eurofins Xenco. A mi | and will b | a liable anh | for the cou | st of complex and | t chall not accu | ma anu ras | nonsihilit | v for an | v inces | or exne | enses in | curred by | the client | if such lo | sses are | due to | circums | tances | beyond | the contr | rol | | | | |
| Relinquished by | y: (Sia | nature) | | Receive | d by: (Signa | ture) | | | Date | /Time | | Reli | nquishe | d by: (| Signati | ure) | 1 | Rec | eived | by: (Si | gnatur | e) | Date/ | /Time | |
| 12110 | 24 | | 1Day of | 4.70 100 | la g | tin | E | 1-2 | 13-2 | 31 | 62 | 3 | | | | | 1 | | | | | | | | |
| the la ve | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Per Var Pa | ter | | 12- | | | J | | | 200 | 2 | and | 4 | | | | | 1 | | | | | | | | |

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

13

2/6/2023 (Rev. 1)

Job Number: 890-3926-1 SDG Number: 03D2057035

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 3926 List Number: 1 Creator: Stutzman, Amanda

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

14

Job Number: 890-3926-1 SDG Number: 03D2057035

List Source: Eurofins Midland

List Creation: 01/25/23 12:13 PM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3926 List Number: 2 Creator: Rodriguez, Leticia

| Question | Answer | Comment |
|----------------------------------------------------------------------------------|--------------|---------|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| ls 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 | |
| | N 1/A | |

Containers requiring zero headspace have no headspace or bubble is N/A <6mm (1/4").



APPENDIX E

NMOCD Sampling Notifications

| From: | Nobui, Jennifer, EMNRD |
|--------------|------------------------------------------------------------------------------------|
| To: | Kalei Jennings |
| Cc: | Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD |
| Subject: | FW: [EXTERNAL] Extension Request- EVGSAU 2418-001 (Incident Number NAPP2231954757) |
| Date: | Tuesday, February 7, 2023 4:49:53 PM |
| Attachments: | image001.png |
| | image002.png |
| | image003.png |
| | image004.png |
| | image005.jpg |

[**EXTERNAL EMAIL**]

Hello Kalei

OCD approves your request for a 90-day extension to May 08, 2023 to submit a remediation plan or closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, February 7, 2023 3:33 PM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD
<mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request- EVGSAU 2418-001 (Incident Number
NAPP2231954757)

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Kalei Jennings <<u>kjennings@ensolum.com</u>>
Sent: Tuesday, February 7, 2023 2:54 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Hadlie Green <<u>hgreen@ensolum.com</u>>; Josh Adams <<u>jadams@ensolum.com</u>>

Subject: [EXTERNAL] Extension Request- EVGSAU 2418-001 (Incident Number NAPP2231954757)

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

To Whom It May Concern,

EVGSAU 2418-001 (Incident Number NAPP2231954757)

Maverick Permian, LLC (Maverick) is requesting an extension for the current deadline of February 7, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for EVGSAU 2418-001 (Incident Number NAPP2231954757). The release was discovered on November 9, 2022, and initial site assessment activities have been completed. The release occurred on land owned by the State of New Mexico and a Right-of-Entry Request was submitted to the State on December 13, 2022, and the executed permit was not received until January 4, 2023. To complete additional remediation activities and submit a remediation work plan or closure report, Maverick requests a 90-day extension of this deadline until May 8, 2023.

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC

| From: | Harimon, Jocelyn, EMNRD |
|--------------|------------------------------------------------------------------------------|
| To: | Kalei Jennings |
| Subject: | FW: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 4/10/2023) |
| Date: | Monday, April 10, 2023 11:03:23 AM |
| Attachments: | image005.jpg image006.png image007.png image008.png image009.png |

[**EXTERNAL EMAIL**]

Kalei,

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

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Enviro, OCD, EMNRD
Sent: Monday, April 10, 2023 10:02 AM
To: Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD
<<u>mike.bratcher@emnrd.nm.gov</u>>
Subject: FW: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 4/10/2023)

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov

From: Kalei Jennings <<u>kjennings@ensolum.com</u>>
Sent: Friday, April 7, 2023 1:13 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Subject: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 4/10/2023)

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

All,

Maverick Permian, LLC (Maverick) plans to complete sampling activities at the following site the week of April 10, 2023.

- Grayburg Eumont Straw Battery/ NAPP2302036818
 - Sampling Date: 4/12/2023 & 4/13/2023
- MCA 254/ NAPP2302035947
 - Sampling Date: 4/12/2023 4/14/2023
- EVGSAU 2418-001 / NAPP2231954757
 - Sampling Date: 4/13/2023
- EVGSAU 2963-001/ NAPP2235371799
 - Sampling Date: 4/14/2023
- MCA 151 / NAPP2235377174
 - Sampling Date: 4/14/2023
- Leamex 018/ NAPP2234158858
 - Sampling Date: 4/13/2023 & 4/14/2023

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC

| From: | Enviro, OCD, EMNRD |
|--------------|----------------------------------------------------------------------------|
| To: | Kalei Jennings |
| Cc: | Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD |
| Subject: | RE: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 4/3/2023) |
| Date: | Tuesday, April 4, 2023 9:16:29 AM |
| Attachments: | image005.jpg |
| | image006.png |
| | image007.png |
| | image008.png |
| | image009.png |

[**EXTERNAL EMAIL**]

Kalei,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Tuesday, April 4, 2023 8:11 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 4/3/2023)

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

All,

Maverick Permian, LLC (Maverick) plans to complete sampling activities at the following site the week of April 3, 2023.

- Grayburg Eumont Straw Battery/ NAPP2302036818
 - Sampling Date: 4/5/2023 & 4/6/2023
- Ruby Federal / NAPP2231448981

- Sampling Date: 4/5 /2023 2023
- EVGSAU 2418-001 / NAPP2231954757
 - Sampling Date: 4/6/2023
- EVGSAU 2963-001/ NAPP2235371799
 - Sampling Date: 4/7/2023
- MCA 351/ NAPP2302034681
 - Sampling Date: 4/7/2023

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC

| From: | Enviro, OCD, EMNRD |
|--------------|-----------------------------------------------------------------------------|
| То: | Kalei Jennings |
| Cc: | Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD |
| Subject: | RE: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 5/15/2023) |
| Date: | Friday, May 12, 2023 5:08:14 PM |
| Attachments: | image005.jpg |
| | image006.png |
| | image007.png |
| | image008.png |
| | image009.png |

[**EXTERNAL EMAIL**]

Kalei,

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

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Friday, May 12, 2023 2:47 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 5/15/2023)

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

All,

Maverick Permian, LLC (Maverick) plans to complete sampling activities at the following site the week of May 15, 2023.

- EVGSAU 2418-001 / NAPP2231954757
 - Sampling Date: 5/17/2023 & 5/18/2023
- EVGSAU 2963-001/ NAPP2235371799
 - Sampling Date: 5/17/2023 & 5/18/2023

- MCA 400 / NAPP2305455050
 - Sampling Date: 5/17/2023
- EVGSAU 2437-001/ NAPP2303273838
 - Sampling Date: 5/17/2023 & 5/18/2023

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC

| From: | Enviro, OCD, EMNRD |
|--------------|---------------------------------------------------------------------|
| To: | Kalei Jennings |
| Cc: | Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD |
| Subject: | RE: [EXTERNAL] Maverick- Sampling Notification (Week of 01/16/2023) |
| Date: | Thursday, January 12, 2023 9:33:41 AM |
| Attachments: | image005.jpg |
| | image006.png |
| | image007.png |
| | image008.png |
| | image009.png |

[**EXTERNAL EMAIL**]

Kalei,

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

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Wednesday, January 11, 2023 5:25 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 01/16/2023)

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

All,

Maverick Natural Resources (Maverick) plans to complete final sampling activities at the following sites the week of January 16, 2023.

- Oxy State F-1 / NAPP2235375291
- Jalmat 188 / NAPP2235373931
- Jalmat 170 / NAPP2233946698
- MCA 151 / NAPP2235377174

- EVGSAU 2418-001 / NAPP2231954757
- Buckeye 43-01 / NAPP2230752440
- Leamex 018 / NAPP2234158858

•

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC

| From: | Enviro, OCD, EMNRD |
|--------------|---------------------------------------------------------------------|
| То: | Kalei Jennings |
| Cc: | Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD |
| Subject: | RE: [EXTERNAL] Maverick- Sampling Notification (Week of 12/12/2022) |
| Date: | Thursday, December 8, 2022 9:21:58 AM |
| Attachments: | image005.jpg image006.png image007.png image008.png |
| | image009.png |

[**EXTERNAL EMAIL**]

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

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Wednesday, December 7, 2022 4:46 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 12/12/2022)

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

All,

Maverick Natural Resources (Maverick) plans to complete final sampling activities at the following sites the week of December 12, 2022.

- Jalmat 170/ NAPP2233946698
- SEMU Eumont 117 / NAPP2231946665
- EVGSAU 2418-001 / NAPP2231954757

Thank you,

L





Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC

| From: | Nobui, Jennifer, EMNRD |
|--------------|---------------------------------------------------------------------------------------------------------|
| То: | Kalei Jennings |
| Cc: | Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD |
| Subject: | FW: [EXTERNAL] Extension Request- Buckeye Satellite 1 (EVGSAU 2418-001)- Incident Number NAPP2231954757 |
| Date: | Monday, May 8, 2023 4:26:28 PM |
| Attachments: | image001.png image002.png image003.png image004.png |

[**EXTERNAL EMAIL**]

Hello Kalei

OCD approves your 90-day extension request to August 6, 2023 to submit a remediation plan or closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Kalei Jennings < kjennings@ensolum.com</pre>

Sent: Friday, May 5, 2023 12:55 PM

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

Subject: [EXTERNAL] Extension Request- Buckeye Satellite 1 (EVGSAU 2418-001)- Incident Number NAPP2231954757

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

To Whom It May Concern,

Buckeye Satellite 1 (EVGSAU 2418-001)- Incident Number NAPP2231954757

Maverick Permian, LLC (Maverick) is requesting an extension for the current deadline of May 8, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for Buckeye Satellite 1 (EVGSAU 2418-001)- Incident Number NAPP2231954757. The release was discovered on November 9, 2022, and initial site assessment activities have been completed. The release occurred on land owned by the State of New Mexico and a Right-of-Entry Request was submitted to the State on January 13, 2023, and the executed permit was recently received. To complete additional remediation activities and submit a remediation work plan or closure report, Maverick requests a 90-day extension of this deadline until August 6, 2023.

Thank you,

L





Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC in f



APPENDIX F

Final C141

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

Page 80 of 90

| Incident ID | NAPP2231954757 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party: Maverick Permian, LLC | OGRID: 331199 |
|-----------------------------------------------------------------|---------------------------------------------|
| Contact Name: Bryce Wagoner | Contact Telephone: 928-241-1862 |
| Contact email: Bryce.Wagoner@mavresources.com | Incident # (assigned by OCD) NAPP2231954757 |
| Contact mailing address: 1410 NW County Road Hobbs, NM 88240 | |

Location of Release Source

Latitude 32.81660_

Longitude -103.50212_

(NAD 83 in decimal degrees to 5 decimal places)

| Site Name: EVGSAU 2418-001 | Site Type |
|------------------------------------------|-----------------------------------|
| Date Release Discovered November 9, 2022 | API# (if applicable) 30-025-02085 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| М | 19 | 17S | 35E | Lea |

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)

 Image: Crude Oil
 Volume Released (bbls) 0.1 bbl
 Volume Recovered (bbls) 0 bbls

| Crude Oil | Volume Released (bbls) 0.1 bbl | Volume Recovered (bbls) 0 bbls |
|------------------|--------------------------------------------------------------------------------|-----------------------------------------|
| Produced Water | Volume Released (bbls) 7.3 bbls | Volume Recovered (bbls) 0.1 bbls |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ⊠ No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| 🗌 Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

The release was caused by a flowline rupture resulting in minor release. The release occurred off pad. The source of the release has been stopped and the impacted area has been secured. Initial response and removal of saturated soil from the release area has been completed.

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|-------|---|
| I age | 4 |

Oil Conservation Division

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| Was this a major release as defined by 19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible party consider this a major release? |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 🗌 Yes 🖾 No | |
| | |
| If YES, was immediate no | otice 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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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.

| Title:Permian HSE Specialist II |
|---------------------------------|
| Date:11/15/2022 |
| Telephone:928-241-1862 |
| |
| |
| Date:11/15/2022 |
| - |

NAPP2231954757

| | | | | Pooled I | Fluids on the S | urface | | | | |
|-------------|-----------------|----------------|---------------|---------------------------------------------------------------------------------------------|------------------------|-----------------------------------|----------------------------------------|-------------------------|---------------------------------------------|-----------------------------------------------|
| | Length (ft.) | Width (ft.) | Depth (in) | # of Boundaries *edges of pool where depth is 0 . don't count shared boundaries | Oil-Water Ratio (%) | Pooled Area (ft ²) | Estimated Average Depth (ft.) | Pooled Volume (bbl.) | Volume of Oil in Subsurface (bbl.) | Volume of Water in Subsurface (bbl.) |
| Rectangle A | | | | | 0.01 | 0.0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle B | | | | | 0.01 | 0.0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle C | | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle D | | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle E | | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| | | | | | | Total Vol | ume (bbls): | 0.00 | 0.00 | 0.00 |

| | | | | Su | bsurface Fluid | s | | | | |
|-------------|-----------------|----------------|----------------|-----------------------------------------------------------------------------------------------------------------|------------------------|----------------------------|------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| | Length (ft.) | Width (ft.) | Depth (in.) | Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation | Oil-Water Ratio (%) | Area (ft ²) | Volume (bbl.) | Estimated Volume in Subsurface (bbl.) | Volume of Oil in Subsurface (bbl.) | Volume of Water in Subsurface (bbl.) |
| Rectangle A | 40.0 | 13.0 | 12.0 | 0.1 | 0.01 | 520.0 | 92.6 | 7.4 | 0.07 | 7.3 |
| Rectangle B | | | | 0.1 | 0.01 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle C | | | | 0.1 | 0.01 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle D | | | | 0.1 | 0.01 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle E | | | | 0.1 | 0.01 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle F | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle G | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle H | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle I | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| Rectangle J | | | | | | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 |
| | | | | | | Total Volu | ume (bbls): | 7.40 | 0.07 | 7.33 |

TOTAL RELEASE VOLUME (bbls): 7.4

Γ

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

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District III

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District IV

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

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

CONDITIONS

| Operator: Maverick Permian LLC | OGRID: 331199 |
|-----------------------------------|-------------------------------------------|
| | Action Number: |
| Houston, TX 77002 | 159068 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |
| CONDITIONS | |

Created By Condition jharimon None

CONDITIONS

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Action 159068

Condition Date 11/15/2022

Received by OCD: 7/7/2023 9:29:58 AM Form C-121 State of New Mexico

Oil Conservation Division

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Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>51-100</u> (ft bgs) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Did this release impact groundwater or surface water? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | 🛛 Yes 🗌 No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | 🛛 Yes 🗌 No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a wetland? | 🛛 Yes 🗌 No |
| Are the lateral extents of the release overlying a subsurface mine? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within a 100-year floodplain? | 🗌 Yes 🛛 No |
| Did the release impact areas not on an exploration, development, production, or storage site? | 🛛 Yes 🗌 No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

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| Received by OCD: 7/7/2023 9:29 Form C-141 | :58 AM | | | Page 85 of 90 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| | | | Incident ID | NAPP2231954757 |
| Page 4 | Oil Conservation Division | | District RP | |
| | | | Facility ID | |
| | | | Application ID | |
| regulations all operators are require public health or the environment. T failed to adequately investigate and addition, OCD acceptance of a C-14 and/or regulations. Printed Name: Bryce Wagon Signature: Hywwydd email: Bryce.Wagoner@ma | | ifications and perform co OCD does not relieve the eat to groundwater, surfa- | prrective actions for rele operator of liability shi ce water, human health iance with any other fea | ases which may endanger ould their operations have or the environment. In |
| OCD Only | | | | |
| Received by: <u>Shelly Wells</u> | | Date: <u>7/7/20</u> | 23 | |
| | | | | |

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Oil Conservation Division

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|----------------|----------------|
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Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following 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)

 \square 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.



APPENDIX G

NMSLO Reclamation Plan

Reclamation Plan

The release occurred in a pasture area and as such, reclamation requirements set forth in 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation were applied.

The following Reclamation Plan addresses reclamation of the off-pad excavation area and has been developed through review and application of the *Revegetation Guidelines Handbook for Southeastern New Mexico* – Version 1-1, authored by NMSLO and dated 2018, and 19.2.100.67 NMAC – *Surface Reclamation on State Oil and Gas Leases*:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. A minimum of 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release in the pasture will be assessed for the proper application of *Table 3 Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico*;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed listed in the table below;

| Common Name and Preferred Variety | Scientific Name | PLS Per Acre |
|--------------------------------------|-----------------------------|--------------|
| Annual Quick-cover Grass | | |
| Oats | Avena sativa | 1.00 |
| Cool Season Grass | | |
| Western Wheatgrass | Agropyron smithii | 2.50 |
| Warm-Season Grass | | |
| Black or Blue Grama | Boutela gracilis var. Alma | 1.50 |
| Little Bluestem | Schizachyrium scoparium | 0.50 |
| Sand Dropseed | Sporobolus cryptandrus | 0.50 |
| Sand Bluestem | Andropogon hallii | 1.00 |
| Indiangrass | Sorghastrum nutans | 0.50 |
| Sideoats Grama | Bouteloua curtipendula var. | 2.00 |
| | Vaughn | |
| Wildflowers/ Forbs | | |
| White prairie clover | Dalea candida | 0.10 |
| Scarlet globemallow | Sphaeralcea coccinea | 0.10 |
| Chia Sage | Salvia columbariae | 0.10 |
| Annual sunflower | Helianthus annuus | 0.10 |
| Annual buckwheat | Eriogonum annuum | 0.10 |

- The seed mixture will be distributed with one or more of the following methods: push broadcaster seed spreader, tractor operated broadcast seed spreader, and/or drill seeding based on Site conditions and contractor availability;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;

- Erosion control management is not anticipated since the proposed excavation area is relatively flat; however, in the event erosion control management is necessary to support vegetation growth and minimize erosion until the root structures take hold, the application of the following best management practices (BMPs) could potentially include:
 - Prompt revegetation with mulching and contouring the ground surface to limit surface water flow;
 - The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation will be scheduled and communicated with NMSLO prior to initiation;
- Seeding is anticipated to be completed in the Fall when temperatures and precipitation are most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be the preferred timeframe for this Site;
- If seeding occurs outside of the 180 days approved in the current fully executed ROE Permit, a new ROE Permit will be executed prior to entering the pasture for reclamation activities;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion; and
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

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

CONDITIONS

| Operator: | OGRID: |
|------------------------------|-------------------------------------------|
| Maverick Permian LLC | 331199 |
| 1000 Main Street, Suite 2900 | Action Number: |
| Houston, TX 77002 | 237144 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |
| | |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|-----------|-------------------|
| nvelez | None | 9/29/2023 |

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Action 237144