



February 5, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request
EVGSAU 2437-001
Incident Numbers NAPP2303273838 and NAPP2334650001
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* as a follow-up to the *Remediation Work Plan (Work Plan)* submitted to the New Mexico Oil Conservation Division (NMOCD) on July 13, 2023, and approved by NMOCD on October 6, 2023. This *Closure Request* documents excavation, delineation, and liner installation activities performed at the EVGSAU 2437-001 (Site) to address impacts to soil resulting from two releases of crude oil and produced water at the Site. Based on the remediation activities completed as outlined in the approved *Work Plan*, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Numbers NAPP2303273838 and NAPP2334650001.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 24, Township 17 South, Range 34 East, in Lea County, New Mexico (32.816832° N, -103.506018° W) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (SLO).

On January 10, 2023, corrosion of a flow line resulted in the release of approximately 2.67 barrels (bbls) of crude oil and 6.23 bbls of produced water into the surrounding pasture. No fluids were recovered. The release occurred on the surface of a historical/reclaimed Phillips Petroleum well pad (API 30-025-27337). Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 19, 2023. The release was assigned Incident Number NAPP2303273838.

On December 11, 2023, the same flow line released approximately 18 bbls of crude oil and 6 bbls of produced water into the open excavation associated with remediation activities for Incident Number NAPP2303273838. The released fluids were contained in the open excavation and a vacuum truck was used to recover approximately 9 bbls of crude oil and 6 bbls of produced water. Maverick reported the release to the NMOCD and NMSLO on a Form C-141 on December 21, 2023. The release was assigned Incident Number nAPP2334650001.

Since the release area was in the pasture, the release location was assessed for determination of whether the release encroached into undisturbed areas to comply with the Cultural Properties Protection

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Rule (CPP). Ensolum contracted Beaver Creek Archeology to conduct an Archaeological Records Management System (ARMS) review. Based on a review of prior cultural resource surveys that overlap the release extent, no cultural resources were identified within and/or around the release extent requiring oversight or modifications to remediation efforts. No additional cultural resource surveys were completed in connection with this release. The NMSLO was initially notified of excavation and remediation activities required in the pasture on a Right of Entry Request for Remediation form, submitted to the NMSLO on March 17, 2023. 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 (RE-6494) was fully executed by the NMSLO and received by Maverick on April 11, 2023. A copy of the fully executed ROE Permit and the NMSLO Cultural Resources Cover Sheet, is included as Appendix A.

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 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) Well 324854103301101, located approximately 925 feet southeast of the Site. The groundwater well has a reported depth to groundwater of 76.7 feet bgs and a total depth of 226 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a dry playa, located approximately 825 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). The Site is less than 1,000 feet to a water well. Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

BACKGROUND

As detailed in the approved *Work Plan*, Ensolum personnel were at the Site between January 18, 2023, and May 8, 2023, to oversee excavation activities based on visible staining in the release area and laboratory analytical results for assessment soil samples SS01 through SS05. During excavation activities, visible indications of a historical pit were encountered at approximately 3 feet bgs. Upon encountering the historical pit, vertical excavation was halted. The excavation proceeded laterally within the release extent until sidewall samples were compliant with the Site Closure Criteria. Potholes PH01 and PH02 were advanced via track mounted backhoe within the 3-foot-deep excavation to depths of 11 feet and 7 feet bgs, respectively, to delineate the vertical extent of the impacted soil within the historical pit. Laboratory analytical results for the excavation sidewall samples were compliant with the Site

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Closure Criteria. Laboratory analytical results for the final depth delineation samples from potholes PH01 and PH02, collected at depths of 10 feet and 7 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria and provided vertical delineation of impacted soil within the historical pit.

Based on the laboratory analytical results, a *Work Plan* was submitted to the NMOCD on July 13, 2023. The *Work Plan* proposed excavation of impacted soil to a depth of 4 feet bgs and installation of a liner in the floor of the excavation (over the historical pit) to mitigate further impacts to the subsurface. Additional details regarding the excavation, delineation, soil sampling activities, and proposed work plan can be referenced in the July 13, 2023, *Work Plan*. The *Work Plan* was approved by the NMOCD on October 6, 2023, with no conditions. The *Work Plan* was approved by the NMSLO on November 2, 2023, with the condition that the installed liner must be a clay liner not a poly liner.

On December 11, 2023, prior to commencement of remediation activities, a second flow line release occurred at the Site (Incident Number NAPP2334650001). The released fluids impacted the open excavation associated with Incident Number NAPP2303273838. The NMOCD and NMSLO were contacted to discuss the continued application of the approved *Work Plan*. The NMOCD and NMSLO agreed to proceed with the approved *Work Plan* with the following conditions:

- The excavation will be deepened to a depth of 4 feet bgs, per the approved *Work Plan*.
- The sidewalls of the excavation will be extended as necessary to remove the impacted soil associated with the new release. Sidewall samples will be collected from the final excavation extent to confirm compliance with the Site Closure Criteria in the top four feet.
- New potholes will be advanced within the release extent to re-confirm the vertical extent of impacted soil after the second release occurred.
- A clay liner will be installed over the historical pit to mitigate further impacts to the subsurface. The clay liner will be installed at 4 feet bgs within the open excavation.
 - Based on the pothole delineation data and liner installation in the floor of the excavation, no floor samples were proposed in the approved *Work Plan*.

EXCAVATION AND DELINEATION ACTIVITIES

Between January 12, 2024, and January 18, 2024, Ensolum personnel were at the Site to oversee delineation, excavation, and liner installation activities as outlined in the approved *Work Plan* and in accordance with the NMOCD/NMSLO conditions detailed above.

Assessment soil samples SS06 through SS09 were collected around the release from a depth of approximately 0.5 feet bgs, to confirm the surface extent of the second release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The existing open excavation was extended laterally to remove impacted soil from the excavation sidewalls, that were impacted by the second release. To direct excavation activities, soil was field screened for VOCs and chloride. The excavation was extended vertically to a total depth of 4 feet bgs across the entire release extent. Following lateral and vertical excavation of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the 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 SW01 through SW03, SW04/SW04A, SW05, and SW06 were collected from the sidewalls of the

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excavation at depths ranging from the ground surface to 4 feet bgs. The excavation extent and soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Two potholes (PH01 and PH02) were advanced within the open excavation to depths of 9 feet and 8 feet bgs, respectively. Soil from the potholes was field screened at 1-foot intervals for VOCs and chloride. Final depth of the potholes was determined by field screening results indicating compliance with the Site Closure Criteria. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix C. Discrete delineation samples were selected from each pothole for laboratory analysis; the samples with the highest field screening results and the sample from the final pothole depth. The pothole and delineation soil sample locations are presented on Figure 2. Photographic documentation was completed during the excavation and delineation activities. A photographic log is included in Appendix D.

The assessment, delineation, and excavation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Carlsbad, New Mexico, for analysis of the following contaminants 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 Standard Method SM 4500.

The excavation measured approximately 5,500 square feet in areal extent. A total of approximately 830 cubic yards of impacted soil was excavated, transported, and properly disposed at R360 Environmental Solutions in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for assessment samples SS06 through SS09, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria, and successfully defined the lateral extent of the surface release.

Laboratory analytical results for excavation sidewall samples SW01 through SW03, SW04A, SW05, and SW06, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and confirmed removal of impacted soil from the top 4 feet of the release extent. Sidewall sample SW04 initially exceeded the Site Closure Criteria for chloride, additional soil was removed from the sidewall and subsequent sidewall sample SW04A was compliant.

Laboratory analytical results and field screening results for the pothole PH01 and PH02 delineation samples indicated that chloride concentrations exceeded the Site Closure Criteria within the historical pit at depths ranging from 4 feet to 8 feet bgs. Laboratory analytical results for the final depth pothole delineation samples, collected at depths of 8 feet and 9 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria and provided vertical delineation of impacted soil within the historical pit. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix E.

CLAY LINER INSTALLATION AND RECLAMATION ACTIVITIES

Upon completion of the excavation and delineation activities, and receipt of final laboratory analytical results, the clay liner was installed. The clay liner was installed in the floor of the open excavation at a depth of 4 feet bgs to mitigate further impacts to the subsurface. Photographic documentation was completed during the liner installation activities. A photographic log is included in Appendix D.

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Upon completion of liner installation, the excavation was backfilled with caliche and topsoil and the disturbed area was recontoured to match the surrounding topography. The disturbed area was seeded on January 23, 2024. The Reclamation Plan submitted with the July 13, 2023, *Work Plan* was followed at this Site. Vegetation monitoring will be completed as outlined in the Reclamation Plan, which is included in Appendix F.

CLOSURE REQUEST

Excavation, delineation, and liner installation activities were conducted at the Site to address the January 10, 2023, and December 11, 2023 releases of crude oil and produced water. Laboratory analytical results for the excavation sidewall samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements. Additionally, the impacted soil was vertically delineated to below the most stringent Table I Closure Criteria and a clay liner was installed in the floor of the 4-foot-deep excavation to mitigate further impacts to the subsurface. Based on the excavation and delineation activities, and installation of a clay liner as outlined in the approved *Work Plan*, no further remediation is required.

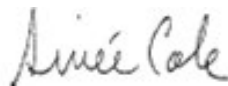
Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Numbers NAPP2303273838 and NAPP2334650001. NMOCD notifications are included in Appendix G and a copy of the approved *Remediation Work Plan* is included as Appendix H.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Aimee Cole
Senior Managing Scientist

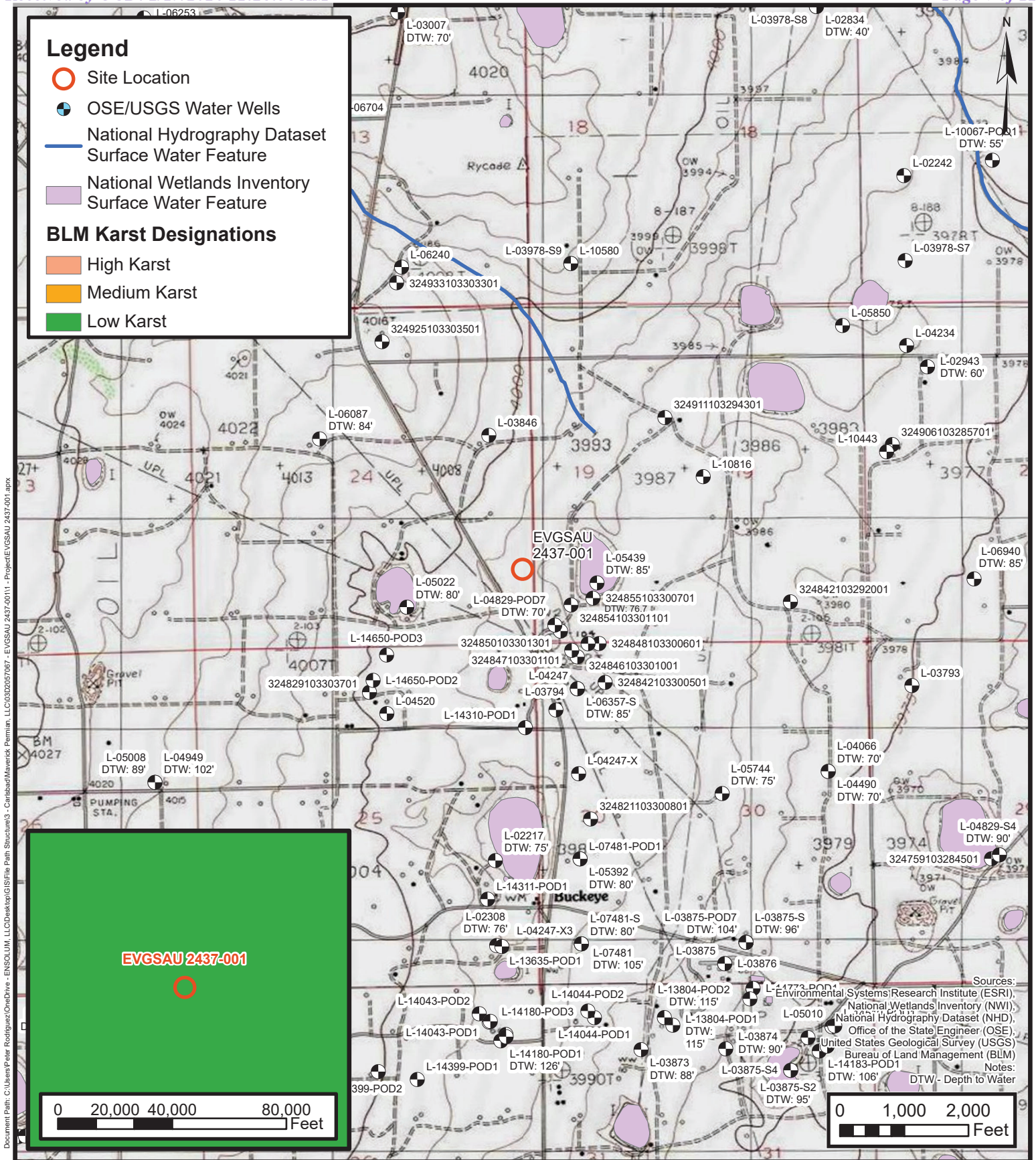
cc: Bryce Wagoner, Maverick Natural Resources
New Mexico State Land Office

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations and Liner Extent
Table 1	Soil Sample Analytical Results
Appendix A	ROE Request for Remediation Form and ROE Permit
Appendix B	Referenced Well Records
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain of Custody Documentation
Appendix F	NMSLO Reclamation Plan
Appendix G	NMOCD Notifications
Appendix H	Remediation Work Plan (July 2023)



FIGURES



Site Receptor Map

Maverick Permian, LLC

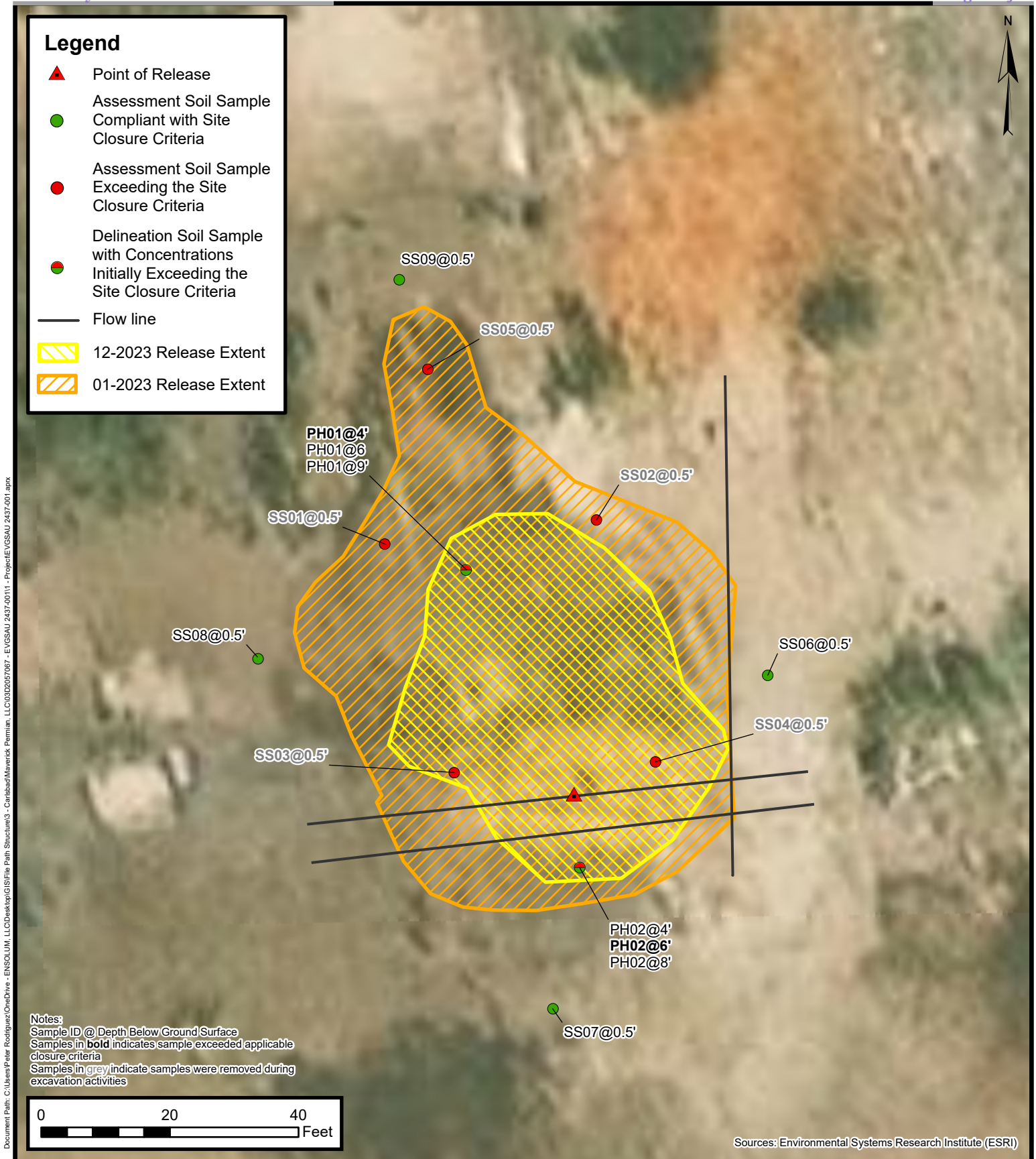
EVGSAU 2437-001

Incident ID: NAPP2303273838 and NAPP2334650001

Unit: P, Section: 24, Township: 17S, Range 34E,
Lea County, New Mexico

FIGURE

1



Delineation Soil Sample Locations

Maverick Permian, LLC

EVGSAU 2437-001






Incident ID: NAPP2303273838 and NAPP2334650001

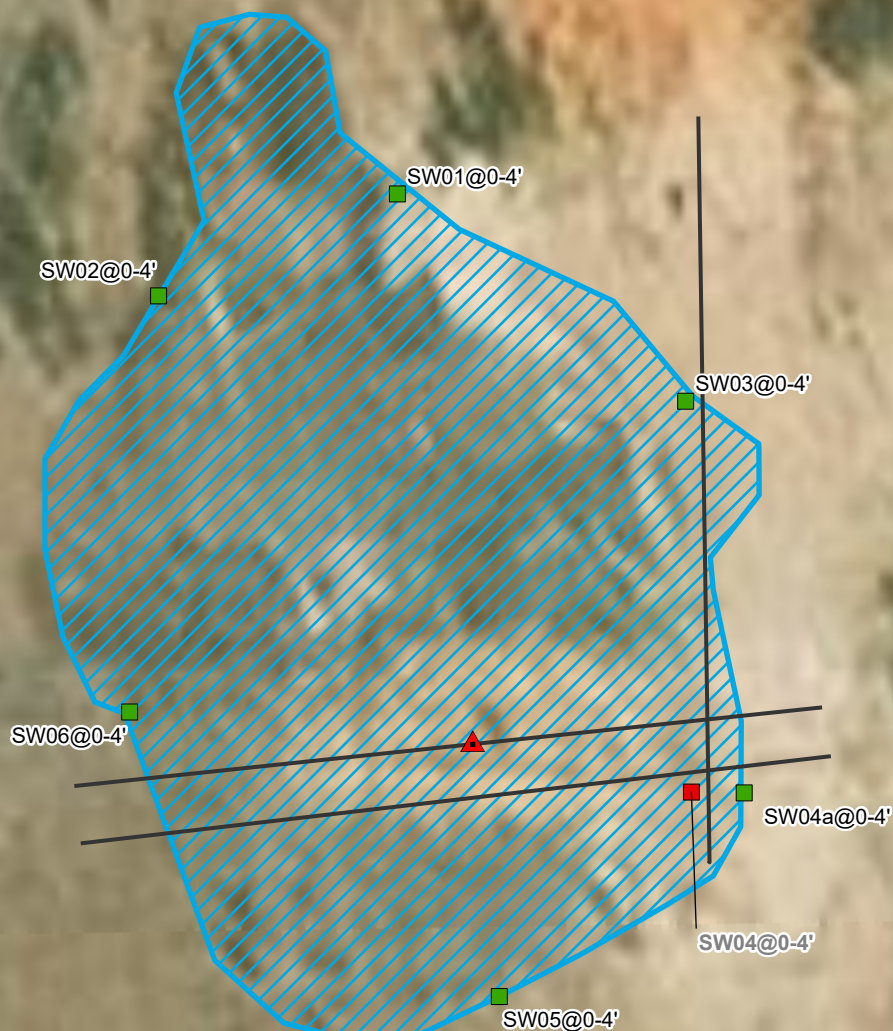
Unit P, Sec 24, T17S, R34E
 Lea County, New Mexico

FIGURE

2

Legend

-  Point of Release
-  Excavation Soil Sample
Compliant with the Site
Closure Criteria
-  Excavation Soil Sample
Exceeding the Site
Closure Criteria
-  Flow line
-  Excavation and
Liner Extent



Notes:
 Sample ID @ Depth Below Ground Surface
 Samples in **bold** indicates sample exceeded applicable
 closure criteria
 Samples in grey indicate samples were removed during
 excavation activities

0 20 40
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations and Liner Extent

Maverick Permian, LLC
 EVGSAU 2437-001
 Incident ID: NAPP2303273838 and NAPP2334650001
 Unit P, Sec 24, T17S, R34E
 Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EVGSAU 2437-001 Maverick Permian, LLC Lea County, New Mexico									
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Assessment Soil Samples									
SS01	01/11/2023	0.5	12.7	297	4,660	32,100	4,570	41,330	10,200
SS02	01/11/2023	0.5	9.37	289	3,960	31,900	4,320	40,180	8,290
SS03	01/11/2023	0.5	38.4	451	3,390	12,000	1,730	17,120	13,400
SS04	01/11/2023	0.5	9.62	260	2,190	17,600	2,350	22,140	13,600
SS05	01/11/2023	0.5	0.152	0.825	7,210	<49.9	<49.9	7,210	49.1
SS06	1/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS07	1/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SS08	1/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SS09	1/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
Delineation Soil Samples									
PH01	01/12/2024	4	<0.050	<0.300	<10.0	10.4	<10.0	10.4	1,020
PH01	01/12/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,800
PH01	01/12/2024	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
PH02	01/12/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
PH02	01/12/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	992
PH02	01/12/2024	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	128



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 EVGSAU 2437-001
 Maverick Permian, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Excavation Soil Samples									
SW01	01/12/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	288
SW02	01/15/2024	0-4	<0.050	<0.300	<10.0	15.4	<10.0	15.4	224
SW03	01/15/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	160
SW04	01/17/2024	0-4	<0.050	<0.300	<10.0	62.1	<10.0	62.1	1,440
SW04A	01/18/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	160
SW05	01/17/2024	0-4	<0.050	<0.300	<10.0	60.0	11.4	71.4	80.0
SW06	01/17/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

Grey text represents samples that have been excavated
 Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standards
 where applicable



APPENDIX A
ROE Request for Remediation Form
and ROE Permit



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



Stephanie Garcia Richard
Commissioner of Public Lands

RIGHT OF ENTRY REQUEST FOR REMEDIATION

Company Name Maverick Natural Resources, LLC
 Address 1410 NW County Rd
 City, State, Zip Hobbs, NM 88240
 Contact Person: Bryce Wagoner
 Telephone #: (928) 241-1862
 Email: Bryce.Wagoner@mavresources.com

Purpose of request: Request to remediate soil impacted by a release of crude oil and produced water at the Site. The soil will be excavated and transported to a licensed disposal facility. All remediation activities will comply with NMOCD spill rules (19.15.29 NMAC). We expect to complete activities within 3 weeks.

Section 24 Township 17S Range 34E Unit Letter P

Qtr/Qtr SE/SE County Lea

GPS Location (decimal degrees): Latitude 32.81668 W Longitude -103.50599 N

If this is a remediation for a spill please attach a copy of the OCD C-141 form.

Is the completed C-141 attached? Yes ☒ No ☐

Square footage of spill impacted surface: 4,162 sq. ft.

Estimated square footage of total disturbance: 63,275 sq. ft.

Reclamation Plan (*attach addl. sheet if necessary*) Maverick will backfill the excavation with clean backfill soil, including purchased topsoil for the upper 4 ft, if the excavation reaches that depth.

The backfilled area will be contoured to match natural surroundings and seeded with an approved BLM seed mixture.

Driving directions from nearest state highway or road (*attach a map of the location*):

From intersection of CR-50 (Buckeye Rd) and NM-238 N, head North on NM-238 N and continue for 0.72 miles. Turn right onto unnamed access road and continue for 0.32 miles. Turn left and follow to Site approximately 0.14 miles.

Lease number associated with the ROE request: B014040008

Well Name and/or Operator (if applicable): EVGSAU 2437-001

Time expected to complete remediation: 3 weeks

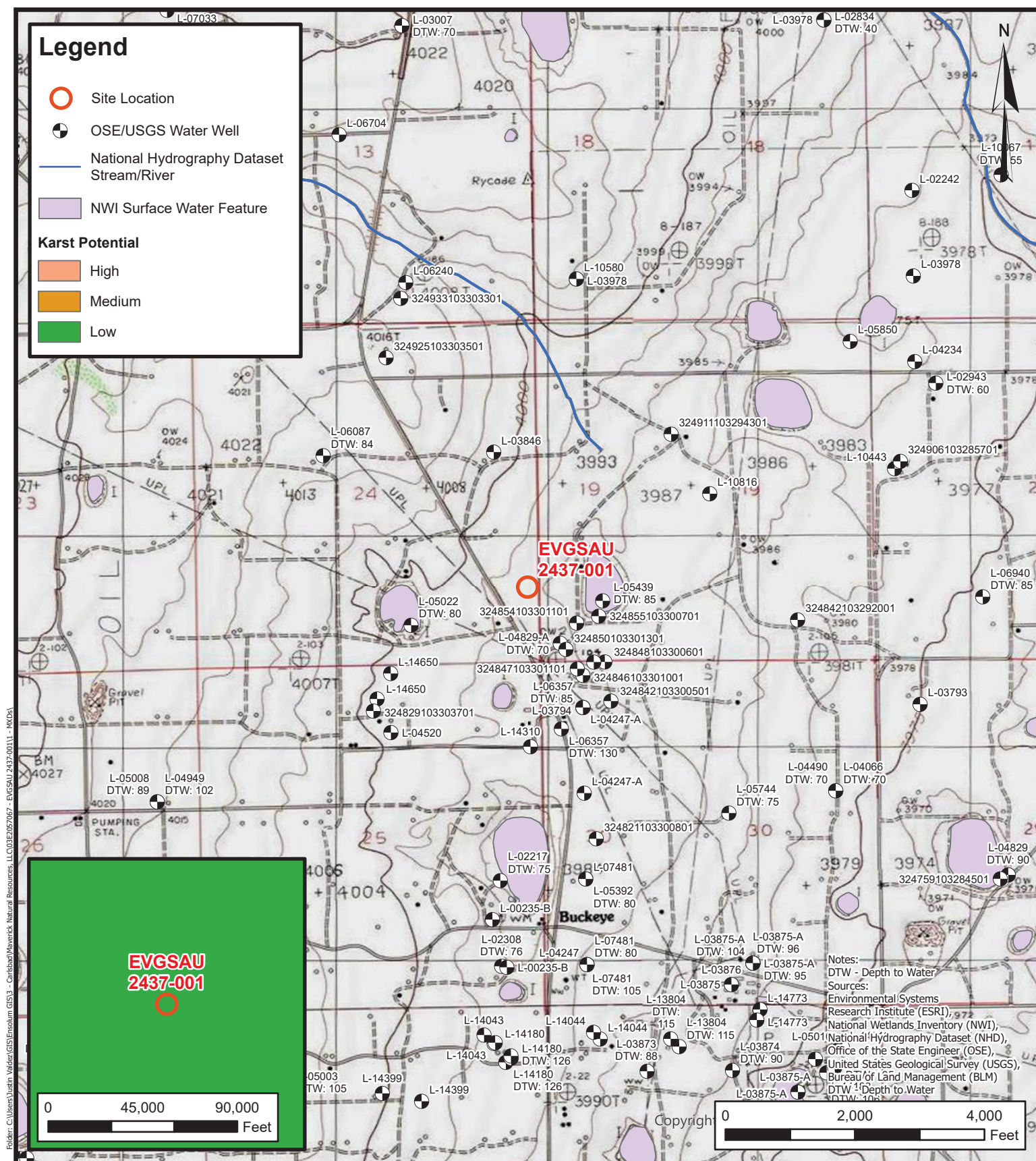
Personnel present on State Land crew and environmental oversight

Equipment & materials present on State Land Yes; backhoe or trackhoe and loader

\$50.00 application fee and \$500.00 permit amount (based on 180 days) renewable 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.*



Site Receptor Map

Maverick Permian, LLC
EVGSAU 2437-001

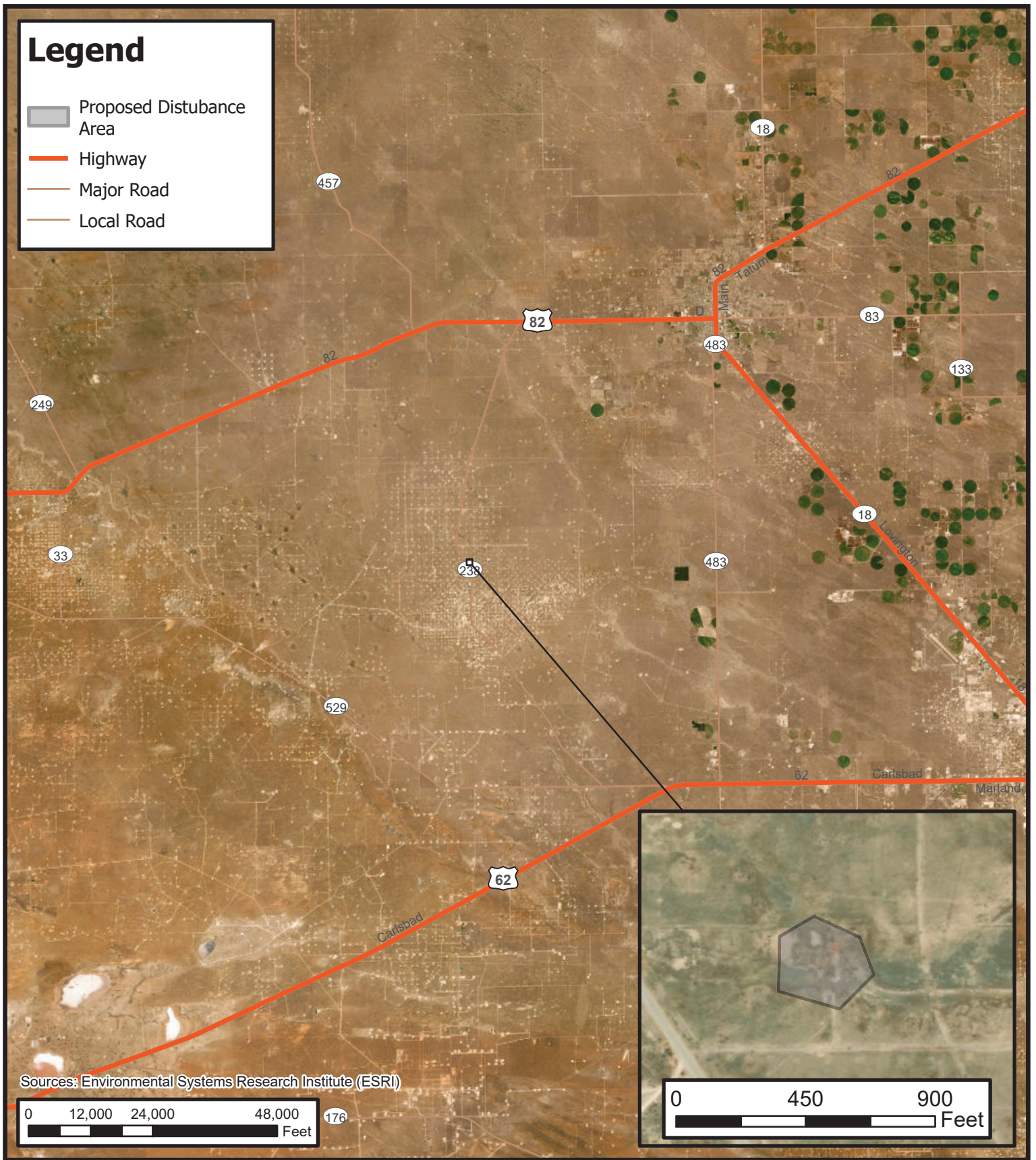
Incident ID: NAPP2303273838

SESE, Sec 24, T17S, R34E

Lea County, New Mexico

FIGURE

1



Right of Entry Site Map

Maverick Permian, LLC

EVGSAU 2437-001

Incident ID: NAPP2303273838

SESE, Sec 24, T17S, R34E

Lea County, New Mexico

FIGURE

2





State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

Stephanie Garcia Richard
COMMISSIONER

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

April 11, 2023

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

Attn: BryceWagoner

Re: Right-of-Entry Permit No.: **RE-6494/EVGSAU 2437-01**

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 – 6494**

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 on the site of a produced water and crude oil spill (the "Premises"), EVGSAU 2437-001, Incident No. nAPP2303273838, and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.2.100.67 NMAC.

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

Section	Township	Range	Subdivision	County	Longitude/Latitude
24	17S	34E	SE4SE4	Lea	32.81668,-103.50599

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.

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 any 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 affect.
- H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to this 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 State Land: **Maverick Natural Resources personnel and contractors.**
- L. Equipment and materials present on State Land: **Heavy equipment, trucks, and associated materials.**

5. SITE CONDITIONS

- A. No surface disturbance, other than soil sampling, 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.

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



PERMITTEE SIGNATURE

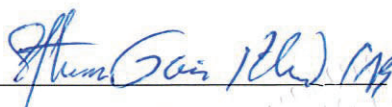
DATE: 4/10/23

Bryce Wagoner

HSE Specialist

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: 
Stephanie Garcia Richard
Commissioner of Public Lands

DATE: 04/11/2023




APPENDIX B

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	04829 POD7	3	3	3	19	17S	35E	640012	3631688* 
<hr/>									
Driller License: 99		Driller Company: O.R. MUSSELWHITE WATER WELL SE							
Driller Name: MUSSELWHITE, O.R. (LD)									
Drill Start Date: 03/25/1968		Drill Finish Date: 03/30/1968		Plug Date:					
Log File Date: 04/04/1968		PCW Rcv Date: 06/24/1968		Source: Shallow					
Pump Type: SUBMER		Pipe Discharge Size: 200		Estimated Yield:					
Casing Size: 10.75		Depth Well: 210 feet		Depth Water: 70 feet					

*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.

1/17/23 9:00 AM

POINT OF DIVERSION SUMMARY



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

▼

Geographic Area:

United States

▼

GO

Click to hideNews Bulletins

- See the [Water Data for the Nation Blog](#) for the latest news and updates.

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324854103301101

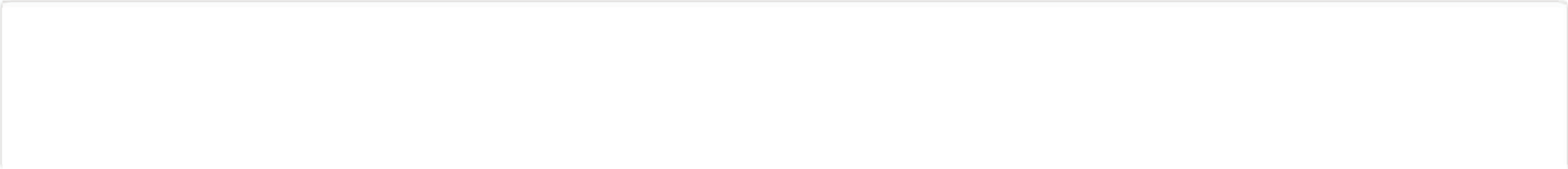
Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324854103301101 17S.35E.19.3332231

Lea County, New Mexico
Latitude 32°48'54", Longitude 103°30'11" NAD27
Land-surface elevation 3,992.5 feet above NGVD29
The depth of the well is 226 feet below land surface.
The depth of the hole is 226 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1980-09-30		D	62610		3915.84	NGVD29	1		S		A
1980-09-30		D	62611		3917.35	NAVD88	1		S		A
1980-09-30		D	72019	76.66			1		S		A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)
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Page Last Modified: 2023-01-16 15:04:20 EST


0.3 0.24 nadww01



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01		Date: 1/12/24	
								Site Name: EVGSAU-2437			
								Incident Number: NAPP2303273838			
								Job Number: : 03D2057067			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Trackhoe	
Coordinates: 32.816859, -103.506101								Hole Diameter: ~3 ft		Total Depth: 10'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D						1		Open excavation 0-4 feet			
D						2					
D						3					
D	1,025	4.8	N	PH01	4	4	SW	SAND: fine to medium grained, trace amounts medium sized gravel, poorly graded, heavily stained, strong hydrocarbon odor			
D	1,300	0.6	N			5	SW	SAA			
D	1,624	0.6	N	PH01	6	6	GM	GRAVEL: medium to fine grained, trace amounts of silty sand, poorly graded, heavily stained, strong hydrocarbon odor.			
D	1,025	0.1	N			7	GM	GRAVEL: medium to fine grained, mod amounts of silty sand, poorly graded, heavily stained, strong hydrocarbon odor.			
D	1,109	0.1	N			8	GM	SAA			
D	<156.8	0.0	N	PH01	9	9	GM	GRAVEL: medium to fine grained, mod amounts of silty sand, poorly graded, heavily stained, slight hydrocarbon odor.			
D	<156.8	0.0	N			10	GM	SAA			
								TD at 10 ft bgs			

								Sample Name: PH02		Date: 1/12/24	
								Site Name: EVGSAU-2437			
								Incident Number: NAPP2303273838			
								Job Number: : 03D2057067			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Trackhoe	
Coordinates: 32.816715, -103.506042								Hole Diameter: ~3 ft		Total Depth: 8 ft bgs	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						1		Open excavation 0-4 feet			
						2					
						3					
D	<156.8	0.3	N	PH02	4	4	SW	SAND: fine to medium grained, trace amounts of medium sized gravel, poorly graded, heavily stained, strong hydrocarbon odor.			
D	<156.8	0.8				5	SW	SAA			
D	1,080	0.2	N	PH02	6	6	GM	GRAVEL: medium to fine grained, trace amounts of silty sand, poorly graded, slight hydrocarbon odor.			
D	526.4	0.2				7	GM	GRAVEL: medium to fine grained, mod amounts of silty sand, poorly graded, no odor.			
D	364	0.0	N	PH02	8	8	GM	SAA			
								TD at 8 ft bgs			



APPENDIX D

Photographic Log



Photographic Log

Maverick Natural Resources, LLC

EVGSAU 2437-001

NAPP2303273838

Date & Time: Wed, Jun 11, 2023 at 1:00:41 PM
 Position: +002.816274° / -103.506127° (±10.1m)
 Altitude: 3972ft (±11.6m)
 Datum: WGS-84
 Azimuth/Bearing: 023° N23E 0409mils True (±13°)
 Elevation Angle: -15.3°
 Horizon Angle: +01.1°
 Zoom: 0.5X



Photograph 1

Date: 01/11/23

Description: Soil staining in release footprint

View: Northeast



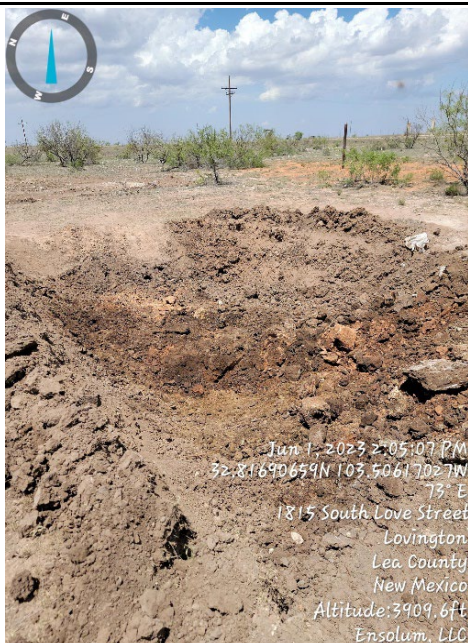
Jun 1, 2023 3:22:17 PM
 223° SW
 Altitude: 3906.5ft
 Ensolum, LLC

Photograph 2

Date: 06/01/23

Description: Excavation activities

View: Northwest



Jun 1, 2023 2:05:07 PM
 32.81690659N 103.50617027W
 73° E
 1815 South Love Street
 Lovington
 Lea County
 New Mexico
 Altitude: 3909.6ft
 Ensolum, LLC

Photograph 3

Date: 06/01/23

Description: Historical pit

View: East



Jun 1, 2023 2:01:18 PM
 32.81694244N 103.50608641W
 241° SW
 Altitude: 3866.3ft
 Ensolum, LLC

Photograph 4

Date: 06/01/23

Description: Historical pit

View: West

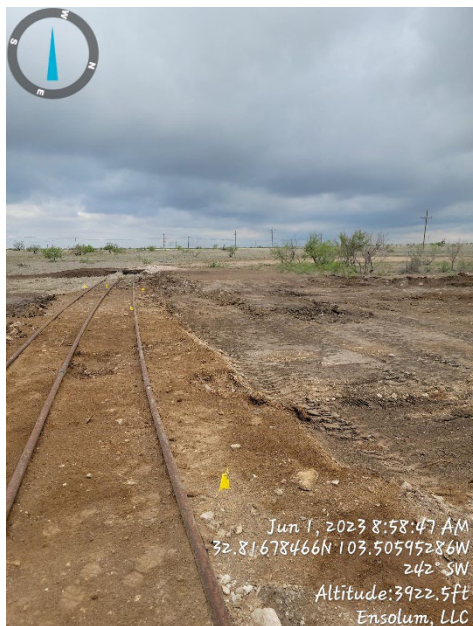


Photographic Log

Maverick Natural Resources, LLC

EVGSAU 2437-001

NAPP2303273838



Photograph 5

Date: 06/01/23

Description: Excavation activities

View: West

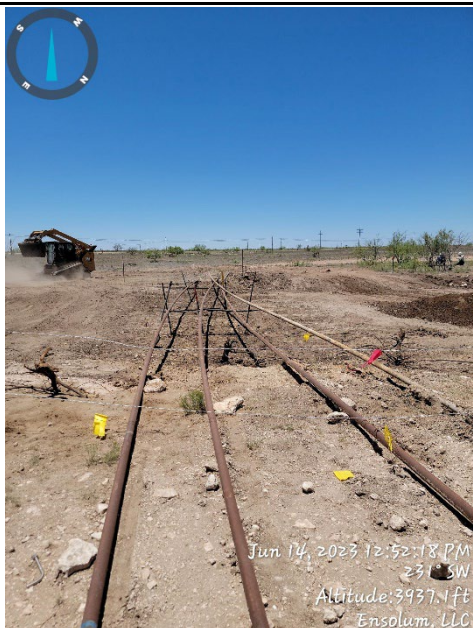


Photograph 6

Date: 06/01/23

Description: Excavation activities

View: South



Photograph 7

Date: 06/14/23

Description: Excavation activities

View: West



Photograph 8

Date: 06/14/23

Description: Excavation activities

View: East



Photographic Log

Maverick Natural Resources, LLC

EVGSAU 2437-001

NAPP2303273838



Photograph 9

Date: 01/12/24

Description: Excavation activities

View: West



Photograph 10

Date: 01/19/24

Description: Excavation activities

View: North



Photograph 11

Date: 01/22/24

Description: Liner Installation

View: Northwest



Photograph 12

Date: 01/23/24

Description: Backfilled Excavation

View: Northeast



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/18/2023 1:38:25 PM

JOB DESCRIPTION

EVGSU 2437-001
SDG NUMBER Lea County

JOB NUMBER

890-3833-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

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



Generated
1/18/2023 1:38:25 PM

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

Client: Ensolum
Project/Site: EVGSU 2437-001

Laboratory Job ID: 890-3833-1
SDG: Lea County

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QC Association Summary	20
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Certification Summary	26
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Sample Summary	28
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Definitions/Glossary

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Job ID: 890-3833-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3833-1

Receipt

The samples were received on 1/11/2023 4:35 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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3833-1), SS02 (890-3833-2), SS03 (890-3833-3), SS04 (890-3833-4), SS05 (890-3833-5), SS06 (890-3833-6), SS07 (890-3833-7) and SS08 (890-3833-8).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-3833-1) and SS02 (890-3833-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS03 (890-3833-3) and SS04 (890-3833-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43910 and analytical batch 880-43961 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8021B: LCSD biased high. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-43910/2-A)

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-3833-1) and SS02 (890-3833-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43991 and analytical batch 880-44129 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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: SS01 (890-3833-1), SS02 (890-3833-2), SS03 (890-3833-3), SS04 (890-3833-4), SS05 (890-3833-5), SS07 (890-3833-7), SS08 (890-3833-8), (MB 880-43909/1-A) and (890-3831-A-1-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.

HPLC/IC

Method 300_ORGFM_28D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-43970 and analytical batch 880-44164 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43970 and analytical batch 880-44164 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.

Client Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS01

Lab Sample ID: 890-3833-1

Date Collected: 01/11/23 13:15

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12.7		0.498	mg/Kg		01/16/23 14:35	01/17/23 15:34	250
Toluene	93.1		0.498	mg/Kg		01/16/23 14:35	01/17/23 15:34	250
Ethylbenzene	85.9		0.498	mg/Kg		01/16/23 14:35	01/17/23 15:34	250
m-Xylene & p-Xylene	70.0		0.996	mg/Kg		01/16/23 14:35	01/17/23 15:34	250
o-Xylene	35.0		0.498	mg/Kg		01/16/23 14:35	01/17/23 15:34	250
Xylenes, Total	105		0.996	mg/Kg		01/16/23 14:35	01/17/23 15:34	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	471	S1+	70 - 130	01/13/23 13:50	01/16/23 16:24	50
1,4-Difluorobenzene (Surr)	70		70 - 130	01/13/23 13:50	01/16/23 16:24	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	297		0.996	mg/Kg			01/17/23 14:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	41300		500	mg/Kg			01/16/23 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	4660		500	mg/Kg		01/13/23 13:11	01/16/23 03:17	10
Diesel Range Organics (Over C10-C28)	32100		500	mg/Kg		01/13/23 13:11	01/16/23 03:17	10
Oil Range Organics (Over C28-C36)	4570		500	mg/Kg		01/13/23 13:11	01/16/23 03:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	196	S1+	70 - 130	01/13/23 13:11	01/16/23 03:17	10
o-Terphenyl	184	S1+	70 - 130	01/13/23 13:11	01/16/23 03:17	10

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10200		49.7	mg/Kg			01/17/23 16:52	10

Client Sample ID: SS02

Lab Sample ID: 890-3833-2

Date Collected: 01/11/23 13:20

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.37	*+	0.0998	mg/Kg		01/13/23 13:50	01/16/23 16:44	50
Toluene	79.0		0.497	mg/Kg		01/16/23 14:35	01/17/23 15:55	250
Ethylbenzene	85.7		0.497	mg/Kg		01/16/23 14:35	01/17/23 15:55	250
m-Xylene & p-Xylene	74.6		0.994	mg/Kg		01/16/23 14:35	01/17/23 15:55	250
o-Xylene	40.5		0.497	mg/Kg		01/16/23 14:35	01/17/23 15:55	250
Xylenes, Total	115		0.994	mg/Kg		01/16/23 14:35	01/17/23 15:55	250

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS02
Date Collected: 01/11/23 13:20
Date Received: 01/11/23 16:35
Sample Depth: 0.5'

Lab Sample ID: 890-3833-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	561	S1+	70 - 130			01/13/23 13:50	01/16/23 16:44	50
1,4-Difluorobenzene (Surr)	121		70 - 130			01/13/23 13:50	01/16/23 16:44	50
Method: TAL SOP Total BTEX - Total BTEX Calculation								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	289		0.994	mg/Kg			01/17/23 14:40	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40200		499	mg/Kg			01/16/23 16:51	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3960		499	mg/Kg		01/13/23 13:11	01/16/23 03:38	10
Diesel Range Organics (Over C10-C28)	31900		499	mg/Kg		01/13/23 13:11	01/16/23 03:38	10
Oil Range Organics (Over C28-C36)	4320		499	mg/Kg		01/13/23 13:11	01/16/23 03:38	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	195	S1+	70 - 130			01/13/23 13:11	01/16/23 03:38	10
o-Terphenyl	187	S1+	70 - 130			01/13/23 13:11	01/16/23 03:38	10
Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8290		50.3	mg/Kg			01/17/23 17:09	10

Client Sample ID: SS03
Date Collected: 01/11/23 13:25
Date Received: 01/11/23 16:35
Sample Depth: 0.5'

Lab Sample ID: 890-3833-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	38.4		0.994	mg/Kg		01/16/23 14:35	01/17/23 20:02	500
Toluene	170		0.994	mg/Kg		01/16/23 14:35	01/17/23 20:02	500
Ethylbenzene	111		0.994	mg/Kg		01/16/23 14:35	01/17/23 20:02	500
m-Xylene & p-Xylene	90.6		1.99	mg/Kg		01/16/23 14:35	01/17/23 20:02	500
o-Xylene	41.3		0.994	mg/Kg		01/16/23 14:35	01/17/23 20:02	500
Xylenes, Total	132		1.99	mg/Kg		01/16/23 14:35	01/17/23 20:02	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	466	S1+	70 - 130			01/13/23 13:50	01/16/23 21:35	50
1,4-Difluorobenzene (Surr)	77		70 - 130			01/13/23 13:50	01/16/23 21:35	50
Method: TAL SOP Total BTEX - Total BTEX Calculation								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	451		1.99	mg/Kg			01/17/23 14:40	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS03
Date Collected: 01/11/23 13:25
Date Received: 01/11/23 16:35
Sample Depth: 0.5'

Lab Sample ID: 890-3833-3
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	17100		250	mg/Kg			01/16/23 16:51	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	3390		250	mg/Kg		01/13/23 13:11	01/16/23 04:00	5	
Diesel Range Organics (Over C10-C28)	12000		250	mg/Kg		01/13/23 13:11	01/16/23 04:00	5	
Oil Range Organics (Over C28-C36)	1730		250	mg/Kg		01/13/23 13:11	01/16/23 04:00	5	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	153	S1+	70 - 130			01/13/23 13:11	01/16/23 04:00	5	
o-Terphenyl	171	S1+	70 - 130			01/13/23 13:11	01/16/23 04:00	5	
Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	13400		100	mg/Kg			01/17/23 17:15	20	

Client Sample ID: SS04
Date Collected: 01/11/23 13:30
Date Received: 01/11/23 16:35
Sample Depth: 0.5'

Lab Sample ID: 890-3833-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	9.62		1.00	mg/Kg		01/16/23 14:35	01/17/23 20:22	500	
Toluene	74.8		1.00	mg/Kg		01/16/23 14:35	01/17/23 20:22	500	
Ethylbenzene	73.8		1.00	mg/Kg		01/16/23 14:35	01/17/23 20:22	500	
m-Xylene & p-Xylene	65.8		2.00	mg/Kg		01/16/23 14:35	01/17/23 20:22	500	
o-Xylene	36.4		1.00	mg/Kg		01/16/23 14:35	01/17/23 20:22	500	
Xylenes, Total	102		2.00	mg/Kg		01/16/23 14:35	01/17/23 20:22	500	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	423	S1+	70 - 130			01/13/23 13:50	01/16/23 21:56	50	
1,4-Difluorobenzene (Surr)	120		70 - 130			01/13/23 13:50	01/16/23 21:56	50	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	260		2.00	mg/Kg			01/17/23 14:40	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	22100		250	mg/Kg			01/16/23 16:51	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	2190		250	mg/Kg		01/13/23 13:11	01/16/23 04:21	5	
Diesel Range Organics (Over C10-C28)	17600		250	mg/Kg		01/13/23 13:11	01/16/23 04:21	5	

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Client Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS04

Lab Sample ID: 890-3833-4

Date Collected: 01/11/23 13:30

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	2350		250	mg/Kg		01/13/23 13:11	01/16/23 04:21	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130			01/13/23 13:11	01/16/23 04:21	5
o-Terphenyl	171	S1+	70 - 130			01/13/23 13:11	01/16/23 04:21	5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13600		99.6	mg/Kg			01/17/23 17:21	20

Client Sample ID: SS05

Lab Sample ID: 890-3833-5

Date Collected: 01/11/23 13:35

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.152	*+	0.0498	mg/Kg		01/13/23 13:50	01/16/23 22:17	25
Toluene	0.297		0.0498	mg/Kg		01/13/23 13:50	01/16/23 22:17	25
Ethylbenzene	0.145	*+	0.0498	mg/Kg		01/13/23 13:50	01/16/23 22:17	25
m-Xylene & p-Xylene	0.148		0.0996	mg/Kg		01/13/23 13:50	01/16/23 22:17	25
o-Xylene	0.0830		0.0498	mg/Kg		01/13/23 13:50	01/16/23 22:17	25
Xylenes, Total	0.231		0.0996	mg/Kg		01/13/23 13:50	01/16/23 22:17	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			01/13/23 13:50	01/16/23 22:17	25
1,4-Difluorobenzene (Surr)	121		70 - 130			01/13/23 13:50	01/16/23 22:17	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.825		0.0996	mg/Kg			01/17/23 14:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7210		49.9	mg/Kg			01/16/23 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7210		49.9	mg/Kg		01/13/23 13:11	01/16/23 01:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/23 13:11	01/16/23 01:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/23 13:11	01/16/23 01:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			01/13/23 13:11	01/16/23 01:29	1
o-Terphenyl	137	S1+	70 - 130			01/13/23 13:11	01/16/23 01:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.1		4.97	mg/Kg			01/17/23 17:26	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS06

Lab Sample ID: 890-3833-6

Date Collected: 01/11/23 13:40

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0495	U **	0.0495	mg/Kg		01/13/23 13:50	01/16/23 22:37	25
Toluene	0.155		0.0495	mg/Kg		01/13/23 13:50	01/16/23 22:37	25
Ethylbenzene	0.126	**	0.0495	mg/Kg		01/13/23 13:50	01/16/23 22:37	25
m-Xylene & p-Xylene	0.148		0.0990	mg/Kg		01/13/23 13:50	01/16/23 22:37	25
o-Xylene	0.0994		0.0495	mg/Kg		01/13/23 13:50	01/16/23 22:37	25
Xylenes, Total	0.247		0.0990	mg/Kg		01/13/23 13:50	01/16/23 22:37	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/13/23 13:50	01/16/23 22:37	25
1,4-Difluorobenzene (Surr)	123		70 - 130	01/13/23 13:50	01/16/23 22:37	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.528		0.0990	mg/Kg			01/17/23 14:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.1		50.0	mg/Kg			01/16/23 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/16/23 00:24	1
Diesel Range Organics (Over C10-C28)	50.1		50.0	mg/Kg		01/13/23 13:11	01/16/23 00:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/16/23 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	01/13/23 13:11	01/16/23 00:24	1
o-Terphenyl	127		70 - 130	01/13/23 13:11	01/16/23 00:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.1		5.02	mg/Kg			01/17/23 17:32	1

Client Sample ID: SS07

Lab Sample ID: 890-3833-7

Date Collected: 01/11/23 13:45

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0497	U **	0.0497	mg/Kg		01/13/23 13:50	01/16/23 22:58	25
Toluene	0.0839		0.0497	mg/Kg		01/13/23 13:50	01/16/23 22:58	25
Ethylbenzene	<0.0497	U **	0.0497	mg/Kg		01/13/23 13:50	01/16/23 22:58	25
m-Xylene & p-Xylene	<0.0994	U	0.0994	mg/Kg		01/13/23 13:50	01/16/23 22:58	25
o-Xylene	<0.0497	U	0.0497	mg/Kg		01/13/23 13:50	01/16/23 22:58	25
Xylenes, Total	<0.0994	U	0.0994	mg/Kg		01/13/23 13:50	01/16/23 22:58	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	01/13/23 13:50	01/16/23 22:58	25

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Client Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS07

Lab Sample ID: 890-3833-7

Date Collected: 01/11/23 13:45

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	122		70 - 130	01/13/23 13:50	01/16/23 22:58	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0994	U	0.0994	mg/Kg			01/17/23 14:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/16/23 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/16/23 00:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/16/23 00:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/16/23 00:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			01/13/23 13:11	01/16/23 00:45	1
o-Terphenyl	145	S1+	70 - 130			01/13/23 13:11	01/16/23 00:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	347		5.01	mg/Kg			01/17/23 17:38	1

Client Sample ID: SS08

Lab Sample ID: 890-3833-8

Date Collected: 01/11/23 13:50

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		01/13/23 13:50	01/16/23 19:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 19:51	1
Ethylbenzene	<0.00200	U *	0.00200	mg/Kg		01/13/23 13:50	01/16/23 19:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/13/23 13:50	01/16/23 19:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 19:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/13/23 13:50	01/16/23 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/13/23 13:50	01/16/23 19:51	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/13/23 13:50	01/16/23 19:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/17/23 14:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/16/23 16:51	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS08
Date Collected: 01/11/23 13:50
Date Received: 01/11/23 16:35
Sample Depth: 0.5'

Lab Sample ID: 890-3833-8
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/16/23 01:50	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/16/23 01:50	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/16/23 01:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	131	S1+	70 - 130			01/13/23 13:11	01/16/23 01:50	1	
o-Terphenyl	144	S1+	70 - 130			01/13/23 13:11	01/16/23 01:50	1	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	234		24.9	mg/Kg			01/17/23 17:43	5	

Surrogate Summary

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3832-A-8-E MS	Matrix Spike	107	102
890-3832-A-8-F MSD	Matrix Spike Duplicate	109	98
890-3833-1	SS01	471 S1+	70
890-3833-2	SS02	561 S1+	121
890-3833-3	SS03	466 S1+	77
890-3833-4	SS04	423 S1+	120
890-3833-5	SS05	103	121
890-3833-6	SS06	101	123
890-3833-7	SS07	97	122
890-3833-8	SS08	103	107
890-3838-A-61-E MS	Matrix Spike	102	84
890-3838-A-61-F MSD	Matrix Spike Duplicate	134 S1+	93
LCS 880-43910/1-A	Lab Control Sample	99	101
LCS 880-43991/1-A	Lab Control Sample	108	97
LCSD 880-43910/2-A	Lab Control Sample Dup	104	104
LCSD 880-43991/2-A	Lab Control Sample Dup	111	100
MB 880-43910/5-A	Method Blank	99	100
MB 880-43991/5-A	Method Blank	85	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3831-A-1-B MS	Matrix Spike	102	114
890-3831-A-1-C MSD	Matrix Spike Duplicate	107	119
890-3833-1	SS01	196 S1+	184 S1+
890-3833-2	SS02	195 S1+	187 S1+
890-3833-3	SS03	153 S1+	171 S1+
890-3833-4	SS04	161 S1+	171 S1+
890-3833-5	SS05	113	137 S1+
890-3833-6	SS06	108	127
890-3833-7	SS07	129	145 S1+
890-3833-8	SS08	131 S1+	144 S1+
LCS 880-43909/2-A	Lab Control Sample	104	126
LCSD 880-43909/3-A	Lab Control Sample Dup	105	126
MB 880-43909/1-A	Method Blank	179 S1+	227 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43910/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 43961						Prep Batch: 43910		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		1+ - 03+			+0/03/: 3 0355+	+0/02/: 3 0457	0
0,4-Difluorobenzene (Surr)	0++		1+ - 03+			+0/03/: 3 0355+	+0/02/: 3 0457	0

Lab Sample ID: LCS 880-43910/1-A						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 43961						Prep Batch: 43910		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.1229		mg/Kg		123	70 - 130	
Toluene	0.100	0.1128		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1225		mg/Kg		122	70 - 130	
m-Xylene & p-Xylene	0.200	0.2218		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1119		mg/Kg		112	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	77		1+ - 03+					
0,4-Difluorobenzene (Surr)	0+0		1+ - 03+					

Lab Sample ID: LCSD 880-43910/2-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 43961						Prep Batch: 43910					
Analyte				Spike	LCSD	LCSD	Unit	D	%Rec	RPD	
			Added	Result	Qualifier	Limits					
Benzene			0.100	0.1348	*+	mg/Kg		135	70 - 130	9	35
Toluene			0.100	0.1189		mg/Kg		119	70 - 130	5	35
Ethylbenzene			0.100	0.1308	*+	mg/Kg		131	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2375		mg/Kg		119	70 - 130	7	35
o-Xylene			0.100	0.1194		mg/Kg		119	70 - 130	7	35
Surrogate	LCSD		LCSD								
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	0+4		1+ - 03+								
0,4-Difluorobenzene (Surr)	0+4		1+ - 03+								

Lab Sample ID: 890-3832-A-8-E MS						Client Sample ID: Matrix Spike			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 43961						Prep Batch: 43910			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U *+ F2	0.101	0.09977		mg/Kg		99	70 - 130
F1									

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QC Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

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

Lab Sample ID: 890-3832-A-8-E MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43961

Prep Batch: 43910

Rec

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Toluene	<0.00202	U F2 F1	0.101	0.07955		mg/Kg		79	70 - 130		
Ethylbenzene	<0.00202	U *+ F2	0.101	0.08884		mg/Kg		88	70 - 130		
		F1									
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.202	0.1628		mg/Kg		81	70 - 130		
o-Xylene	<0.00202	U F2 F1	0.101	0.08464		mg/Kg		84	70 - 130		

	MS	MS	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	0+1		1+ - .03+
0,4-Difluorobenzene (Surr)	0+:		1+ - .03+

Lab Sample ID: 890-3832-A-8-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43961

Prep Batch: 43910

Rec RPD

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Benzene	<0.00202	U *+ F2	0.0990	0.007699	F2 F1	mg/Kg		8	70 - 130	171	35
Toluene	<0.00202	U F2 F1	0.0990	0.01331	F2 F1	mg/Kg		13	70 - 130	143	35
Ethylbenzene	<0.00202	U *+ F2	0.0990	0.007250	F2 F1	mg/Kg		7	70 - 130	170	35
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.198	0.007591	F2 F1	mg/Kg		4	70 - 130	182	35
o-Xylene	<0.00202	U F2 F1	0.0990	0.003161	F2 F1	mg/Kg		3	70 - 130	186	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	0+7		1+ - 03+
0,4-Difluorobenzene (Surr)	7C		1+ - 03+

Lab Sample ID: MB 880-43991/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 44129

Prep Batch: 43991

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/16/23 14:35	01/17/23 12:29	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	C6		1+ - 03+	+0/02/: 3 0436	+0/01/: 3 0: 5 7	0
0,4-Difluorobenzene (Surr)	7+		1+ - 03+	+0/02/: 3 0436	+0/01/: 3 0: 5 7	0

Lab Sample ID: LCS 880-43991/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 44129

Prep Batch: 43991

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Benzene	0.100	0.09402		mg/Kg		94	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

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

Lab Sample ID: LCS 880-43991/1-A

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43991

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Toluene			0.100	0.1033		mg/Kg		103		70 - 130	
Ethylbenzene			0.100	0.09664		mg/Kg		97		70 - 130	
m-Xylene & p-Xylene			0.200	0.2150		mg/Kg		107		70 - 130	
o-Xylene			0.100	0.1176		mg/Kg		118		70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	0+C		1+ - 03+
0,4-Difluorobenzene (Surr)	71		1+ - 03+

Lab Sample ID: LCSD 880-43991/2-A

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43991

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier					Limits		RPD	Limit
Benzene	0.100	0.1023			mg/Kg		102	70 - 130		8	35
Toluene	0.100	0.1067			mg/Kg		107	70 - 130		3	35
Ethylbenzene	0.100	0.09902			mg/Kg		99	70 - 130		2	35
m-Xylene & p-Xylene	0.200	0.2172			mg/Kg		109	70 - 130		1	35
o-Xylene	0.100	0.1197			mg/Kg		120	70 - 130		2	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	000		1+ - 03+
0,4-Difluorobenzene (Surr)	0++		1+ - 03+

Lab Sample ID: 890-3838-A-61-E MS

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43991

Analyte	Sample		Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Benzene	<0.00199	U F1	0.0998	0.06666	F1	mg/Kg		67	70 - 130	
Toluene	<0.00199	U	0.0998	0.08616		mg/Kg		86	70 - 130	
Ethylbenzene	<0.00199	U	0.0998	0.09887		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1769		mg/Kg		89	70 - 130	
o-Xylene	<0.00199	U	0.0998	0.09305		mg/Kg		93	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	0+:		1+ - 03+
0,4-Difluorobenzene (Surr)	C4		1+ - 03+

Lab Sample ID: 890-3838-A-61-F MSD

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43991

Analyte	Sample		Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
Benzene	<0.00199	U F1	0.100	0.06608	F1	mg/Kg		66	70 - 130		1	35
Toluene	<0.00199	U	0.100	0.07566		mg/Kg		76	70 - 130		13	35
Ethylbenzene	<0.00199	U	0.100	0.08076		mg/Kg		81	70 - 130		20	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1847		mg/Kg		92	70 - 130		4	35

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QC Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

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

Lab Sample ID: 890-3838-A-61-F MSD

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene	<0.00199	U	0.100	0.1021		mg/Kg		102	70 - 130	9	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	034	S0h	1+ - 03+								
0,4-Difluorobenzene (Surr)	73		1+ - 03+								

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

Lab Sample ID: MB 880-43909/1-A

Matrix: Solid

Analysis Batch: 43947

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43909

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 19:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 19:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
0-c t l o r o o a 9 l n e	017	S0h	1+ - 03+					
o-p e r y t e n 8 l	11	S0h	1+ - 03+					

Lab Sample ID: LCS 880-43909/2-A

Matrix: Solid

Analysis Batch: 43947

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43909

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	945.3		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	932.4		mg/Kg		93	70 - 130		

Lab Sample ID: LCSD 880-43909/3-A

Matrix: Solid

Analysis Batch: 43947

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43909

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	907.9		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	939.3		mg/Kg		94	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
0-c t l o r o o a 9 l n e	0+6		1+ - 03+						

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QC Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-43909/3-A Matrix: Solid Analysis Batch: 43947				Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 43909						
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
o-peryt en8l	0: 2		1+ - 03+							
Lab Sample ID: 890-3831-A-1-B MS Matrix: Solid Analysis Batch: 43947				Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 43909						
		Sample	Sample	Spike	MS	MS				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	907.3		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1114		mg/Kg		108	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
0-c t l o r o o a 9 T h e	0+:		1+ - 03+							
o-peryt en8l	004		1+ - 03+							

Lab Sample ID: 890-3831-A-1-C MSD Matrix: Solid Analysis Batch: 43947				Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 43909						
		Sample	Sample	Spike	MSD	MSD				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	944.2		mg/Kg		92	70 - 130	4
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1175		mg/Kg		115	70 - 130	5
		MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits							
0-c t l o r o o a 9 T h e	0+1		1+ - 03+							
o-peryt en8l	007		1+ - 03+							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43970/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 44164									
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00	mg/Kg			01/17/23 14:54	1	

Lab Sample ID: LCS 880-43970/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 44164									
		Spike	LCS	LCS			%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	246.3		mg/Kg		99	90 - 110	

QC Sample Results

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-43970/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 44164											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-3835-A-1-H MS				Client Sample ID: Matrix Spike							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 44164											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1370		248	1517	E 4	mg/Kg		59	90 - 110		

Lab Sample ID: 890-3835-A-1-I MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 44164											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1370		248	1515	E 4	mg/Kg		58	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

GC VOA

Prep Batch: 43910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Total/NA	Solid	5035	
890-3833-2	SS02	Total/NA	Solid	5035	
890-3833-3	SS03	Total/NA	Solid	5035	
890-3833-4	SS04	Total/NA	Solid	5035	
890-3833-5	SS05	Total/NA	Solid	5035	
890-3833-6	SS06	Total/NA	Solid	5035	
890-3833-7	SS07	Total/NA	Solid	5035	
890-3833-8	SS08	Total/NA	Solid	5035	
MB 880-43910/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43910/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43910/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3832-A-8-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3832-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Total/NA	Solid	8021B	43910
890-3833-2	SS02	Total/NA	Solid	8021B	43910
890-3833-3	SS03	Total/NA	Solid	8021B	43910
890-3833-4	SS04	Total/NA	Solid	8021B	43910
890-3833-5	SS05	Total/NA	Solid	8021B	43910
890-3833-6	SS06	Total/NA	Solid	8021B	43910
890-3833-7	SS07	Total/NA	Solid	8021B	43910
890-3833-8	SS08	Total/NA	Solid	8021B	43910
MB 880-43910/5-A	Method Blank	Total/NA	Solid	8021B	43910
LCS 880-43910/1-A	Lab Control Sample	Total/NA	Solid	8021B	43910
LCSD 880-43910/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43910
890-3832-A-8-E MS	Matrix Spike	Total/NA	Solid	8021B	43910
890-3832-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43910

Prep Batch: 43991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Total/NA	Solid	5035	
890-3833-2	SS02	Total/NA	Solid	5035	
890-3833-3	SS03	Total/NA	Solid	5035	
890-3833-4	SS04	Total/NA	Solid	5035	
MB 880-43991/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43991/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43991/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3838-A-61-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3838-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 44129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Total/NA	Solid	8021B	43991
890-3833-2	SS02	Total/NA	Solid	8021B	43991
890-3833-3	SS03	Total/NA	Solid	8021B	43991
890-3833-4	SS04	Total/NA	Solid	8021B	43991
MB 880-43991/5-A	Method Blank	Total/NA	Solid	8021B	43991
LCS 880-43991/1-A	Lab Control Sample	Total/NA	Solid	8021B	43991
LCSD 880-43991/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43991

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QC Association Summary

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

GC VOA (Continued)

Analysis Batch: 44129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3838-A-61-E MS	Matrix Spike	Total/NA	Solid	8021B	43991
890-3838-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43991

Analysis Batch: 44174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Total/NA	Solid	Total BTEX	
890-3833-2	SS02	Total/NA	Solid	Total BTEX	
890-3833-3	SS03	Total/NA	Solid	Total BTEX	
890-3833-4	SS04	Total/NA	Solid	Total BTEX	
890-3833-5	SS05	Total/NA	Solid	Total BTEX	
890-3833-6	SS06	Total/NA	Solid	Total BTEX	
890-3833-7	SS07	Total/NA	Solid	Total BTEX	
890-3833-8	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Total/NA	Solid	8015NM Prep	
890-3833-2	SS02	Total/NA	Solid	8015NM Prep	
890-3833-3	SS03	Total/NA	Solid	8015NM Prep	
890-3833-4	SS04	Total/NA	Solid	8015NM Prep	
890-3833-5	SS05	Total/NA	Solid	8015NM Prep	
890-3833-6	SS06	Total/NA	Solid	8015NM Prep	
890-3833-7	SS07	Total/NA	Solid	8015NM Prep	
890-3833-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-43909/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43909/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43909/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3831-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3831-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Total/NA	Solid	8015B NM	43909
890-3833-2	SS02	Total/NA	Solid	8015B NM	43909
890-3833-3	SS03	Total/NA	Solid	8015B NM	43909
890-3833-4	SS04	Total/NA	Solid	8015B NM	43909
890-3833-5	SS05	Total/NA	Solid	8015B NM	43909
890-3833-6	SS06	Total/NA	Solid	8015B NM	43909
890-3833-7	SS07	Total/NA	Solid	8015B NM	43909
890-3833-8	SS08	Total/NA	Solid	8015B NM	43909
MB 880-43909/1-A	Method Blank	Total/NA	Solid	8015B NM	43909
LCS 880-43909/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43909
LCSD 880-43909/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43909
890-3831-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	43909
890-3831-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43909

Analysis Batch: 44066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

GC Semi VOA (Continued)

Analysis Batch: 44066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-2	SS02	Total/NA	Solid	8015 NM	
890-3833-3	SS03	Total/NA	Solid	8015 NM	
890-3833-4	SS04	Total/NA	Solid	8015 NM	
890-3833-5	SS05	Total/NA	Solid	8015 NM	
890-3833-6	SS06	Total/NA	Solid	8015 NM	
890-3833-7	SS07	Total/NA	Solid	8015 NM	
890-3833-8	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Soluble	Solid	DI Leach	
890-3833-2	SS02	Soluble	Solid	DI Leach	
890-3833-3	SS03	Soluble	Solid	DI Leach	
890-3833-4	SS04	Soluble	Solid	DI Leach	
890-3833-5	SS05	Soluble	Solid	DI Leach	
890-3833-6	SS06	Soluble	Solid	DI Leach	
890-3833-7	SS07	Soluble	Solid	DI Leach	
890-3833-8	SS08	Soluble	Solid	DI Leach	
MB 880-43970/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43970/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43970/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3835-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3835-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 44164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3833-1	SS01	Soluble	Solid	300.0	43970
890-3833-2	SS02	Soluble	Solid	300.0	43970
890-3833-3	SS03	Soluble	Solid	300.0	43970
890-3833-4	SS04	Soluble	Solid	300.0	43970
890-3833-5	SS05	Soluble	Solid	300.0	43970
890-3833-6	SS06	Soluble	Solid	300.0	43970
890-3833-7	SS07	Soluble	Solid	300.0	43970
890-3833-8	SS08	Soluble	Solid	300.0	43970
MB 880-43970/1-A	Method Blank	Soluble	Solid	300.0	43970
LCS 880-43970/2-A	Lab Control Sample	Soluble	Solid	300.0	43970
LCSD 880-43970/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43970
890-3835-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	43970
890-3835-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43970

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Lab Chronicle

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS01
Date Collected: 01/11/23 13:15
Date Received: 01/11/23 16:35

Lab Sample ID: 890-3833-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	43961	01/16/23 16:24	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	43991	01/16/23 14:35	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	44129	01/17/23 15:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44174	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44066	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	43947	01/16/23 03:17	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43970	01/16/23 09:20	KS	EET MID
Soluble	Analysis	300.0		10			44164	01/17/23 16:52	CH	EET MID

Client Sample ID: SS02
Date Collected: 01/11/23 13:20
Date Received: 01/11/23 16:35

Lab Sample ID: 890-3833-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	43961	01/16/23 16:44	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	43991	01/16/23 14:35	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	44129	01/17/23 15:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44174	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44066	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	43947	01/16/23 03:38	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43970	01/16/23 09:20	KS	EET MID
Soluble	Analysis	300.0		10			44164	01/17/23 17:09	CH	EET MID

Client Sample ID: SS03
Date Collected: 01/11/23 13:25
Date Received: 01/11/23 16:35

Lab Sample ID: 890-3833-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	43961	01/16/23 21:35	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	43991	01/16/23 14:35	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	44129	01/17/23 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44174	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44066	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43947	01/16/23 04:00	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43970	01/16/23 09:20	KS	EET MID
Soluble	Analysis	300.0		20			44164	01/17/23 17:15	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS04
Date Collected: 01/11/23 13:30
Date Received: 01/11/23 16:35

Lab Sample ID: 890-3833-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	43961	01/16/23 21:56	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	43991	01/16/23 14:35	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	44129	01/17/23 20:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44174	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44066	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43947	01/16/23 04:21	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43970	01/16/23 09:20	KS	EET MID
Soluble	Analysis	300.0		20			44164	01/17/23 17:21	CH	EET MID

Client Sample ID: SS05
Date Collected: 01/11/23 13:35
Date Received: 01/11/23 16:35

Lab Sample ID: 890-3833-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	43961	01/16/23 22:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44174	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44066	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43947	01/16/23 01:29	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43970	01/16/23 09:20	KS	EET MID
Soluble	Analysis	300.0		1			44164	01/17/23 17:26	CH	EET MID

Client Sample ID: SS06
Date Collected: 01/11/23 13:40
Date Received: 01/11/23 16:35

Lab Sample ID: 890-3833-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	43961	01/16/23 22:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44174	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44066	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43947	01/16/23 00:24	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43970	01/16/23 09:20	KS	EET MID
Soluble	Analysis	300.0		1			44164	01/17/23 17:32	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Client Sample ID: SS07
Date Collected: 01/11/23 13:45
Date Received: 01/11/23 16:35

Lab Sample ID: 890-3833-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	43961	01/16/23 22:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44174	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44066	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43947	01/16/23 00:45	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43970	01/16/23 09:20	KS	EET MID
Soluble	Analysis	300.0		1			44164	01/17/23 17:38	CH	EET MID

Client Sample ID: SS08
Date Collected: 01/11/23 13:50
Date Received: 01/11/23 16:35

Lab Sample ID: 890-3833-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43961	01/16/23 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44174	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44066	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43947	01/16/23 01:50	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43970	01/16/23 09:20	KS	EET MID
Soluble	Analysis	300.0		5			44164	01/17/23 17:43	CH	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

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	MCAWW	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
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: EVGSU 2437-001

Job ID: 890-3833-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3833-1	SS01	Solid	01/11/23 13:15	01/11/23 16:35	0.5'
890-3833-2	SS02	Solid	01/11/23 13:20	01/11/23 16:35	0.5'
890-3833-3	SS03	Solid	01/11/23 13:25	01/11/23 16:35	0.5'
890-3833-4	SS04	Solid	01/11/23 13:30	01/11/23 16:35	0.5'
890-3833-5	SS05	Solid	01/11/23 13:35	01/11/23 16:35	0.5'
890-3833-6	SS06	Solid	01/11/23 13:40	01/11/23 16:35	0.5'
890-3833-7	SS07	Solid	01/11/23 13:45	01/11/23 16:35	0.5'
890-3833-8	SS08	Solid	01/11/23 13:50	01/11/23 16:35	0.5'





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 15, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 2437 - 001

Enclosed are the results of analyses for samples received by the laboratory on 01/12/24 13:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/12/2024
 Reported: 01/15/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 01 @ 0-4' (H240147-01)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98	
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/15/2024	ND	432	108	400	0.00	

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	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/12/2024
 Reported: 01/15/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 @ 4' (H240147-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	01/15/2024	ND	432	108	400	0.00		

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	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	10.4	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/12/2024
 Reported: 01/15/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 @ 6' (H240147-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	01/15/2024	ND	432	108	400	0.00		

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	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/12/2024
 Reported: 01/15/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 @ 9' (H240147-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/15/2024	ND	432	108	400	0.00		

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	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/12/2024
 Reported: 01/15/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 @ 4' (H240147-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/15/2024	ND	432	108	400	0.00		

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	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/12/2024
 Reported: 01/15/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 @ 6' (H240147-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEx	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	01/15/2024	ND	432	108	400	0.00		

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	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/12/2024
 Reported: 01/15/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 @ 8' (H240147-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/15/2024	ND	432	108	400	0.00	

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	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensolum LLC</u>				BILL TO				ANALYSIS REQUEST															
Project Manager: <u>Aimee Cole</u>				P.O. #:																			
Address: <u>3122 Natural Park Hwy</u>				Company:																			
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn:																			
Phone #: <u>720 384 7365</u> Fax #:				Address:																			
Project #: <u>G3E2057067</u> Project Owner: <u>Maverich</u>				City:																			
Project Name: <u>EVGSAU 2437-DDI</u>				State: Zip:																			
Project Location: <u>32.81668, -103.50599</u>				Phone #:																			
Sampler Name: <u>Bonnie Hays</u>				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME									
<u>H240147</u>																							
1	<u>SW01 @ 0-4'</u>	<u>C</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>1/12/24</u>	<u>0845</u>	<u>X</u>	<u>X</u>	<u>X</u>						
2	<u>PH01 @ 4'</u>	<u>C</u>	<u>1</u>											<u>1025</u>									
3	<u>PH01 @ 6'</u>	<u>C</u>	<u>1</u>											<u>1033</u>									
4	<u>PH01 @ 9'</u>	<u>C</u>	<u>1</u>											<u>1047</u>									
5	<u>PH02 @ 4'</u>	<u>C</u>	<u>1</u>											<u>1147</u>									
6	<u>PH02 @ 6'</u>	<u>C</u>	<u>1</u>											<u>1153</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>						
7	<u>PH02 @ 8'</u>	<u>C</u>	<u>1</u>											<u>1205</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>						

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Relinquished By: <u>[Signature]</u>	Date: <u>1-12-24</u> Time: <u>1321</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: <u>acole@ensolum.com</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>4.8</u> Corrected Temp. °C	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <u>Standard</u> <input type="checkbox"/> <u>Rush</u> <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C
CHECKED BY: (Initials) <u>[Signature]</u>		Thermometer ID #140 Correction Factor 0°C	

FORM-006-R 5-4-07/11/25

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 18, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 2437 - 001

Enclosed are the results of analyses for samples received by the laboratory on 01/17/24 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/17/2024
 Reported: 01/18/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 04 @ 0-4' (H240202-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2024	ND	2.16	108	2.00	5.06	
Toluene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	4.91	
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	01/17/2024	ND	6.22	104	6.00	5.53	
Total BTX	<0.300	0.300	01/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	01/18/2024	ND	432	108	400	3.64	

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	01/17/2024	ND	175	87.4	200	3.83	
DRO >C10-C28*	62.1	10.0	01/17/2024	ND	181	90.3	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/17/2024
 Reported: 01/18/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 05 @ 0-4' (H240202-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2024	ND	2.16	108	2.00	5.06		
Toluene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	4.91		
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.13	106	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/17/2024	ND	6.22	104	6.00	5.53		
Total BTX	<0.300	0.300	01/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/18/2024	ND	432	108	400	3.64		

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	01/17/2024	ND	175	87.4	200	3.83	
DRO >C10-C28*	60.0	10.0	01/17/2024	ND	181	90.3	200	1.12	
EXT DRO >C28-C36	11.4	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/17/2024
 Reported: 01/18/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 06 @ 0-4' (H240202-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2024	ND	2.16	108	2.00	5.06		
Toluene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	4.91		
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.13	106	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/17/2024	ND	6.22	104	6.00	5.53		
Total BTEx	<0.300	0.300	01/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500CI-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	01/18/2024	ND	432	108	400	3.64		

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	01/17/2024	ND	175	87.4	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	181	90.3	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensolum LLC</u>				BILL TO				ANALYSIS REQUEST																															
Project Manager: <u>Aimee Cole</u>				P.O. #:																																			
Address: <u>3122 National Parks Hwy</u>				Company:																																			
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn:																																			
Phone #: <u>720-384-7365</u> Fax #:				Address:																																			
Project #: <u>03E2057067</u> Project Owner: <u>Maverick</u>				City:																																			
Project Name: <u>EVGSAU 2437-001</u>				State: Zip:																																			
Project Location: <u>32.81668 -103.50599</u>				Phone #:																																			
Sampler Name: <u>Ronni Hayes</u>				Fax #:																																			
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																									
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
		<u>H240202</u>		<u>SW04 @ 0-4'</u>		<u>C</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>1/17/24</u>		<u>1150</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>1152</u>		<u>1445</u>													
		<u>2</u>		<u>SW05 @ 0-4'</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>													
		<u>3</u>		<u>SW06 @ 0-4'</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates, or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>		Date: <u>1-17-24</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1618</u>		Time: <u>1618</u>		Time: <u>1618</u>		All Results are emailed. Please provide Email address: <u>acole@ensolum.com</u>	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:		Time:		Turnaround Time: <u>Standard</u> <input type="checkbox"/> <u>Rush</u> <input checked="" type="checkbox"/> <u>24hr</u>	
Delivered By: (Circle One)		Observed Temp. °C <u>33</u>		Sample Condition <u>Cool</u> <input checked="" type="checkbox"/> <u>Intact</u> <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition <u>Cool</u> <input checked="" type="checkbox"/> <u>Intact</u> <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		CHECKED BY: (Initials) <u>[Signature]</u>		Thermometer ID #140 Correction Factor 0°C	
						Observed Temp. °C Corrected Temp. °C	

FORM-006 R 3.4 07/11/23

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 18, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 2437 - 001

Enclosed are the results of analyses for samples received by the laboratory on 01/15/24 12:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/15/2024
 Reported: 01/18/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03D2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/15/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW02 0-4' (H240162-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2024	ND	2.08	104	2.00	2.06	
Toluene*	<0.050	0.050	01/15/2024	ND	2.07	103	2.00	2.23	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.71	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.00	99.9	6.00	2.75	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/15/2024	ND	416	104	400	7.41		

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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	15.4	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/15/2024
 Reported: 01/18/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03D2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/15/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW03 0-4' (H240162-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2024	ND	2.08	104	2.00	2.06		
Toluene*	<0.050	0.050	01/15/2024	ND	2.07	103	2.00	2.23		
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.71		
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.00	99.9	6.00	2.75		
Total BTEX	<0.300	0.300	01/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/15/2024	ND	416	104	400	7.41		

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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Aimee Cole				P.O. #:															
Address: 3127 National Parks Hwy				Company:															
City: Carlsbad State: NM Zip: 88220				Attn:															
Phone #: 720 384 7305 Fax #:				Address:															
Project #: 03E2057067 Project Owner: Mearns				City:															
Project Name: EVGSAU 2437-001				State: Zip:															
Project Location: 32.81668, -103.50599				Phone #:															
Sampler Name: Ronni Hayes				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Depth (feet)	(G/RAB OR C/COMP)	# CONTAINERS	MATRIX			PRESERV.		SAMPLING									
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME				
1	SW02	0-4'	C	1			X				X			4/15/24	0915	X			
2	SW03	0-4'	C	1			X				X			4/15/24	1120	X			
BTEX CI- TPH																			

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Relinquished By:		Date: 4/15/24	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No (Add'l Phone #:	
		Time: 12:37			All Results are emailed. Please provide Email address:	
Relinquished By:		Date:	Received By:		REMARKS:	
		Time:			72hrs. as per client 4/15/24	
Delivered By: (Circle One)		Observed Temp. °C: 56.02	Sample Condition		Turnaround Time:	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: 51.40	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Standard Rush <input type="checkbox"/> 48 hrs <input checked="" type="checkbox"/>	
			CHECKED BY: (Initials)		Thermometer ID #113	
					Correction Factor -0.5°C	
					Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to cole.kene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 22, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 2437 - 001

Enclosed are the results of analyses for samples received by the laboratory on 01/17/24 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/17/2024
 Reported: 01/22/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 06 @ 0.5' (H240203-01)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2024	ND	2.04	102	2.00	11.3	
Toluene*	<0.050	0.050	01/18/2024	ND	2.02	101	2.00	11.3	
Ethylbenzene*	<0.050	0.050	01/18/2024	ND	2.01	101	2.00	11.4	
Total Xylenes*	<0.150	0.150	01/18/2024	ND	5.88	98.0	6.00	11.7	
Total BTEX	<0.300	0.300	01/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

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	01/18/2024	ND	432	108	400	3.64	

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	01/17/2024	ND	175	87.4	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	181	90.3	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/17/2024
 Reported: 01/22/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 07 @ 0.5' (H240203-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2024	ND	2.04	102	2.00	11.3		
Toluene*	<0.050	0.050	01/18/2024	ND	2.02	101	2.00	11.3		
Ethylbenzene*	<0.050	0.050	01/18/2024	ND	2.01	101	2.00	11.4		
Total Xylenes*	<0.150	0.150	01/18/2024	ND	5.88	98.0	6.00	11.7		
Total BTEX	<0.300	0.300	01/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/18/2024	ND	432	108	400	3.64		

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	01/17/2024	ND	175	87.4	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	181	90.3	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/17/2024
 Reported: 01/22/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 08 @ 0.5' (H240203-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2024	ND	2.04	102	2.00	11.3		
Toluene*	<0.050	0.050	01/18/2024	ND	2.02	101	2.00	11.3		
Ethylbenzene*	<0.050	0.050	01/18/2024	ND	2.01	101	2.00	11.4		
Total Xylenes*	<0.150	0.150	01/18/2024	ND	5.88	98.0	6.00	11.7		
Total BTEX	<0.300	0.300	01/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/18/2024	ND	432	108	400	3.64		

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	01/17/2024	ND	175	87.4	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	181	90.3	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/17/2024
 Reported: 01/22/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 09 @ 0.5' (H240203-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2024	ND	2.04	102	2.00	11.3		
Toluene*	<0.050	0.050	01/18/2024	ND	2.02	101	2.00	11.3		
Ethylbenzene*	<0.050	0.050	01/18/2024	ND	2.01	101	2.00	11.4		
Total Xylenes*	<0.150	0.150	01/18/2024	ND	5.88	98.0	6.00	11.7		
Total BTEX	<0.300	0.300	01/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/18/2024	ND	432	108	400	3.64		

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	01/17/2024	ND	175	87.4	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	181	90.3	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensolum LLC</u>				BILL TO				ANALYSIS REQUEST																													
Project Manager: <u>Aimee Cole</u>				P.O. #:																																	
Address: <u>3122 National Parks Hwy</u>				Company:																																	
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn:																																	
Phone #: <u>720 384 7365</u> Fax #:				Address:																																	
Project #: <u>03E2057067</u> Project Owner: <u>Maverich</u>				City:																																	
Project Name: <u>EVGSAU 2437-001</u>				State: Zip:																																	
Project Location: <u>32.81668 -103.50599</u>				Phone #: Fax #:																																	
Sampler Name: <u>Ronni Hayes</u>																																					
FOR LAB USE ONLY																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																									
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
<u>H240203</u>		<u>SS06 @ 0.5'</u>		<u>G</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>4/17/24</u>		<u>1330</u>		<u>CI-</u>											
<u>1</u>		<u>SS07 @ 0.5'</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>1335</u>		<u>BTEX</u>											
<u>2</u>		<u>SS08 @ 0.5'</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>1340</u>		<u>TDH</u>											
<u>3</u>		<u>SS09 @ 0.5'</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>1345</u>													
<u>4</u>																																					

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Relinquished By: <u>[Signature]</u>		Date: <u>4-17-24</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: <u>1618</u>		Received By:		All Results are emailed. Please provide Email address: <u>a.cole@ensolum.com</u>	
Delivered By: (Circle One)		Observed Temp. °C <u>3.3</u>		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: (Initials) <u>[Signature]</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		<input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
FORM-006 R 3.4 07/11/23				<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	
				<input type="checkbox"/> No <input type="checkbox"/> No		Correction Factor 0°C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Cool Intact Observed Temp. °C	
				<input type="checkbox"/> No <input type="checkbox"/> No		Corrected Temp. °C	

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 19, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVGSAU 2437 - 001

Enclosed are the results of analyses for samples received by the laboratory on 01/18/24 13:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 01/18/2024
 Reported: 01/19/2024
 Project Name: EVGSAU 2437 - 001
 Project Number: 03E2057067
 Project Location: MAVERICK 32.81668-103.50599

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 04 A (H240214-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2024	ND	2.14	107	2.00	11.0	
Toluene*	<0.050	0.050	01/18/2024	ND	2.16	108	2.00	6.37	
Ethylbenzene*	<0.050	0.050	01/18/2024	ND	2.22	111	2.00	8.56	
Total Xylenes*	<0.150	0.150	01/18/2024	ND	6.60	110	6.00	8.99	
Total BTX	<0.300	0.300	01/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/18/2024	ND	432	108	400	0.00		

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	01/18/2024	ND	190	95.0	200	2.91	
DRO >C10-C28*	<10.0	10.0	01/18/2024	ND	179	89.5	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/18/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ansolum LLC</u>				BILL TO				ANALYSIS REQUEST															
Project Manager: <u>Anee Cole</u>				P.O. #:																			
Address: <u>3122 National Parks Hwy</u>				Company:																			
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn:																			
Phone #: <u>720 384 7365</u> Fax #:				Address:																			
Project #: <u>03E2057067</u> Project Owner: <u>Manerch</u>				City:																			
Project Name: <u>EUGSAU 2437-001</u>				State: Zip:																			
Project Location: <u>32.81668, 103.50599</u>				Phone #:																			
Sampler Name: <u>Ronni Hayce</u>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING		DATE				TIME							
H240214		SW04a		C1		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:															
												BTEX				TPH				CI			
												X				X				X			

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Relinquished By: <u>[Signature]</u>		Date: <u>1-18-24</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1302</u>		Time:		Received By:		All Results are emailed. Please provide Email address: <u>acole@ensolum.com</u>	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C <u>0.3</u>		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> 24 hr	
FORM-006 R 3.4 07/11/23						Thermometer ID #140 Correction Factor 0°C	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

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



APPENDIX F 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	<i>Avena sativa</i>	1.00
Cool Season Grass		
Western Wheatgrass	<i>Agropyron smithii</i>	2.50
Warm-Season Grass		
Black or Blue Grama	<i>Boutela gracilis</i> var. <i>Alma</i>	1.50
Little Bluestem	<i>Schizachyrium scoparium</i>	0.50
Sand Dropseed	<i>Sporobolus cryptandrus</i>	0.50
Sand Bluestem	<i>Andropogon hallii</i>	1.00
Indiangrass	<i>Sorghastrum nutans</i>	0.50
Sideoats Grama	<i>Bouteloua curtipendula</i> var. <i>Vaughn</i>	2.00
Wildflowers/ Forbs		
White prairie clover	<i>Dalea candida</i>	0.10
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10
Chia Sage	<i>Salvia columbariae</i>	0.10
Annual sunflower	<i>Helianthus annuus</i>	0.10
Annual buckwheat	<i>Eriogonum annuum</i>	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 wattles 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;
- Seeding is anticipated to be completed in the 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;
- Annual inspections (at a minimum) will take place at the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following growing season 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.



APPENDIX G

NMOCD Notifications

From: [Aimee Cole](#)
To: [Aimee Cole](#)
Subject: FW: [EXTERNAL] Maverick Permian, LLC - Extension Request - EVGSAU 2437-001 (Incident ID NAPP2303273838)
Date: Wednesday, December 20, 2023 1:52:45 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[Outlook-00cayy0x.png](#)



Aimee Cole

Senior Managing Scientist

720-384-7365

Ensolum, LLC



From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, December 20, 2023 1:39 PM
To: Aimee Cole <acole@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] Maverick Permian, LLC - Extension Request - EVGSAU 2437-001 (Incident ID NAPP2303273838)

[**EXTERNAL EMAIL**]

Good afternoon Aimee,

Your 60-day time extension is approved. Remediation Due date has been updated to March 4, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, December 20, 2023 1:07 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Maverick Permian, LLC - Extension Request - EVGSAU 2437-001 (Incident ID NAPP2303273838)

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, December 20, 2023 12:42 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick Permian, LLC - Extension Request - EVGSAU 2437-001 (Incident ID NAPP2303273838)

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

To Whom It May Concern,

Extension Request - EVGSAU 2437-001 (NAPP2303273838)
Maverick Permian, LLC (Maverick) is requesting an extension of the current January 2, 2024, deadline for submitting a report required in 9.15.29.12.B.(1) NMAC, detailing remedial actions at the EVGSAU 2437-001 (Incident ID NAPP2303273838). A Remediation Work Plan for this release was approved by the NMOCD on October 2, 2023, and remediation activities were scheduled. Prior to completing the remediation activities, a second release occurred at the site (Incident ID nAPP2334650001) which affected the existing open excavation. Initial response efforts have been completed for the second release and Maverick intends to complete remediation for both releases simultaneously. In order to complete additional excavation and remediation activities, review the soil sample laboratory analytical results, and prepare a closure report for both releases at the site, Maverick requests a 60-day extension until March 2, 2024.

Thank you,

Aimee Cole
Senior Managing Scientist



720-384-7365
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 5/15/2023)
Date: Friday, May 12, 2023 3:08:14 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.

JH

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](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](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 5/29/2023)
Date: Friday, May 26, 2023 10:31:14 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.

JH

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: Thursday, May 25, 2023 3:53 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 5/29/2023)

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 29, 2023.

- EVGSAU 2963-001/ NAPP2235371799
 - Sampling Date: 6/1/2023 & 6/2/2023
- EVGSAU 2437-001/ NAPP2303273838
 - Sampling Date: 5/30/2023 & 5/31/2023

- MCA 351/ NAPP2302034681
 - Sampling Date: 6/1/2023 & 6/2/2023

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC



From: [Buchanan, Michael, EMNRD](#)
To: [Kalei Jennings; Enviro, OCD, EMNRD; Velez, Nelson, EMNRD](#)
Cc: [Aimee Cole](#)
Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 7/3/2023)
Date: Monday, July 3, 2023 1:01:25 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

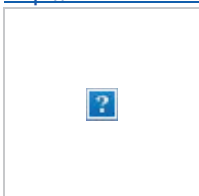
[**EXTERNAL EMAIL**]

Good afternoon,

Thank you for the notification. Please include a copy of this and all notifications in the C-141, remedial and/or closure reports to ensure the notifications are documented in the project file.

Regards,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113
| michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Monday, July 3, 2023 1:14 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Aimee Cole <acole@ensolum.com>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 7/3/2023)

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

All,

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

- MCA 204 / NAPP2311751602
 - Sampling Date: 7/6/2023 & 7/7/2023

MCA #1 South Transfer Line / NAPP2314650185

- Sampling Date: 7/6/2023
- EVGSAU 2437-001 / NAPP2303273838
 - Sampling Date: 7/6/2023

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC





APPENDIX H

REMEDIATION WORK PLAN (July 2023)



July 11, 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: Remediation Work Plan
EVGSAU 2437-001
Incident Number NAPP2303273838
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of Maverick Permian, LLC (Maverick), has prepared the following *Remediation Work Plan (Work Plan)* to document the site assessment and excavation activities completed to date and propose a work plan to address the historical impacted soil identified at the EVGSAU 2437-001 flow line release (Site). The following *Work Plan* proposes additional excavation of impacted soil and installation of a 20-mil impermeable liner in the floor of the excavation.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 24, Township 17 South, Range 34 East, in Lea County, New Mexico (32.816832° N, -103.506018° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On January 10, 2023, corrosion of a flow line resulted in the release of approximately 2.67 barrels (bbls) of crude oil and 6.23 bbls of produced water into the surrounding pasture. No fluids were recovered. The release occurred on the surface of a historical/reclaimed Phillips Petroleum well pad (API 30-025-27337). Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 19, 2023. The release was assigned Incident Number NAPP2303273838.

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 March 17, 2023. 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 (RE-6494) was fully executed by the NMSLO and received by Maverick on April 11, 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.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table 1, 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).

Maverick Permian, LLC
Remediation Work Plan
EVGSAU 2437-001

Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) Well 324854103301101, located approximately 925 feet southeast of the Site. The groundwater well has a reported depth to groundwater of 76.7 feet bgs and a total depth of 226 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a dry playa, located approximately 825 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). The Site is less than 1,000 feet to a water well. Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

SITE ASSESSMENT ACTIVITIES

On January 11, 2023, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Assessment soil samples SS01 through SS09 were collected within and around the release from a depth of approximately 0.5 feet bgs, to assess the extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included 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 at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Carlsbad, New Mexico, for analysis of the following contaminants 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 assessment soil samples SS01 through SS05, collected within the release extent, indicated that BTEX, TPH, and chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for assessment samples SS06 through SS09, collected around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria, and successfully defined the lateral extent of the release. The laboratory analytical results are summarized on the attached Table 1.

Maverick Permian, LLC
Remediation Work Plan
EVGSAU 2437-001

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for assessment soil samples SS01 through SS05, delineation and excavation activities were warranted.

EXCAVATION AND DELINEATION ACTIVITIES

Between January 18, 2023, and May 8, 2023, Ensolum personnel were at the Site to oversee excavation activities based on visible staining in the release area and laboratory analytical results for the assessment soil samples SS01 through SS05. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was field screened for VOCs and chloride using a PID and chloride Hach® chloride QuanTab® test strips, respectively. Field screening results were declining with excavation depth, as expected, until a depth of approximately 3 feet bgs. At a 3 feet bgs, field screening results increased and there were visible indications of a historical pit on the reclaimed Phillips Petroleum well pad (API 30-025-27337). Upon encountering the historical pit, vertical excavation was halted. The excavation proceeded laterally within the release extent until field screening results indicated that excavation sidewalls were compliant with the Site Closure Criteria.

Following lateral excavation of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the 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 SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 feet bgs. The excavation extent and soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 2. Photographic documentation was completed during the excavation activities. A photographic log is included in Appendix C. The soil samples were collected, handled, and analyzed as described above.

The excavation measured approximately 5,000 square feet in areal extent. A total of approximately 600 cubic yards of impacted soil was excavated, transported, and properly disposed at R360 Environmental Solutions in Hobbs, New Mexico.

On June 16, 2023, Ensolum personnel returned to the Site to complete vertical delineation of the historical pit encountered in the floor of the open excavation. Potholes PH01 and PH02 were advanced via track mounted backhoe within the 3-foot deep excavation to depths of 11 feet and 7 feet bgs, respectively. Soil from the potholes was field screened at depths ranging from 4 feet to 11 feet bgs using a PID and chloride Hach® chloride QuanTab® test strips. Field screening results indicated elevated TPH and/or chloride concentrations in pothole PH01 at depths ranging from 4 feet to 10 feet bgs and in pothole PH02 at depths ranging from 4 feet to 6 feet bgs. Two delineation samples were submitted for laboratory analysis from each pothole (PH01A/PH01G and PH02A/PH02D) from depths ranging from 4 feet to 10 feet bgs. Field screening results and observations from the potholes were documented on lithologic/soil sampling logs, which are included in Appendix C. The pothole locations are presented on Figure 2.

Laboratory analytical results for excavation sidewall samples SW01 through SW04 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for pothole delineation samples PH01A and PH02A, collected at a depth of 4 feet bgs, indicated that TPH and/or chloride concentrations exceeded the Site Closure Criteria within the historical pit. Laboratory analytical results for pothole delineation samples PH01G and PH02D, collected at depths of 10 feet and 7 feet bgs, respectively, indicated all COC concentrations were compliant with the Site Closure Criteria and provided vertical delineation of impacted soil within the historical pit. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

Maverick Permian, LLC
Remediation Work Plan
EVGSAU 2437-001

PROPOSED REMEDIATION WORK PLAN

Maverick excavated approximately 600 cubic yards of impacted soil associated with the January 10, 2023, flow line release. However, historical impacts associated with a buried historical pit on the reclaimed Phillips Petroleum well pad were encountered in the floor of the excavation. Analytical results from the delineation soil sampling indicated soil containing elevated TPH and/or chloride concentrations is present across the 5,000 square foot excavation area and extends from a depth of 3 feet bgs to a maximum depth of 10 feet bgs. The impacted soil below 3 feet bgs is associated with a historical pit containing large pieces of concrete and has a discernable visible difference between the recent release and historical impacts (photos 3 and 4). Maverick is not responsible for remediation of historical impacts on another Operators well pad; however, in order to be protective of the environment, Maverick proposes excavation of the top four feet of soil within the release footprint and installation of a liner in the floor of the open excavation to mitigate further impacts to the subsurface.

Maverick requests approval to complete the following remediation activities:

- Removal of an additional 1-foot of impacted soil from the floor of the excavation, resulting in a final excavation depth of 4 feet bgs.
- An additional estimated 185 cubic yards of impacted soil will be excavated and disposed of at a licensed disposal facility.
- Upon completion of excavation activities, a 20-mil impermeable liner will be installed over the historical pit to mitigate further impacts to the subsurface. The liner will be installed at 4 feet bgs within the open excavation.
- The excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed pasture will be re-seeded with an approved seed mixture. A Reclamation Plan for the disturbed pasture area is included in Appendix F for NMSLO review.

Maverick will complete the excavation and liner installation activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. NMOCD Notifications are included in Appendix G and the Form C-141 is included in Appendix H.

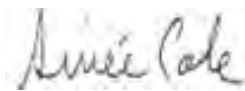
Maverick Permian, LLC
Remediation Work Plan
EVGSAU 2437-001

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



Kalei Jennings
Senior Scientist



Aimee Cole
Senior Managing Scientist

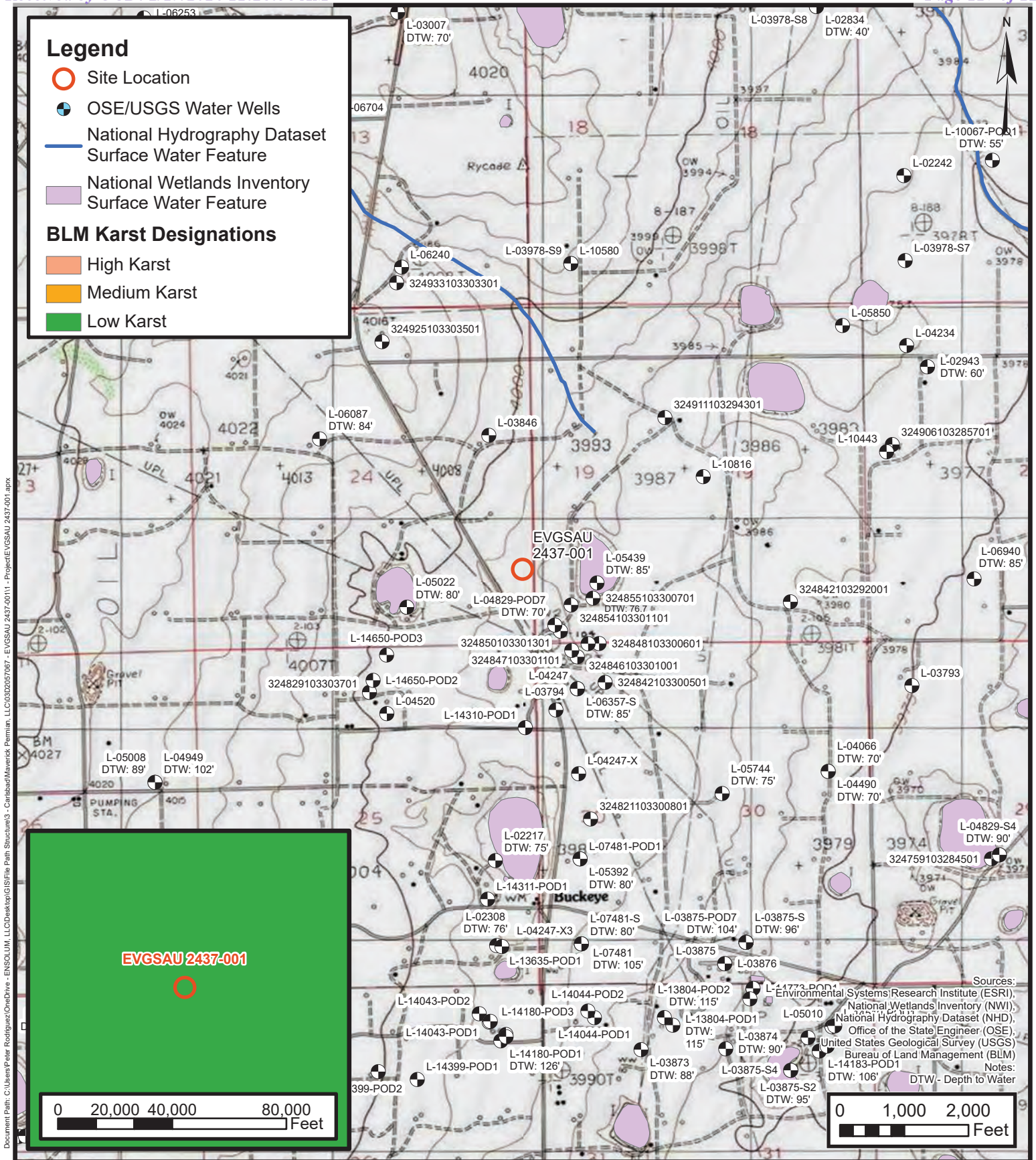
cc: Bryce Wagoner, Maverick Permian, LLC
New Mexico State Land Office

Appendices:

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



FIGURES



Site Receptor Map

Maverick Permian, LLC

EVGSAU 2437-001

Incident ID: NAPP2303273838

Unit: P, Section: 24, Township: 17S, Range 34E,
Lea County, New Mexico

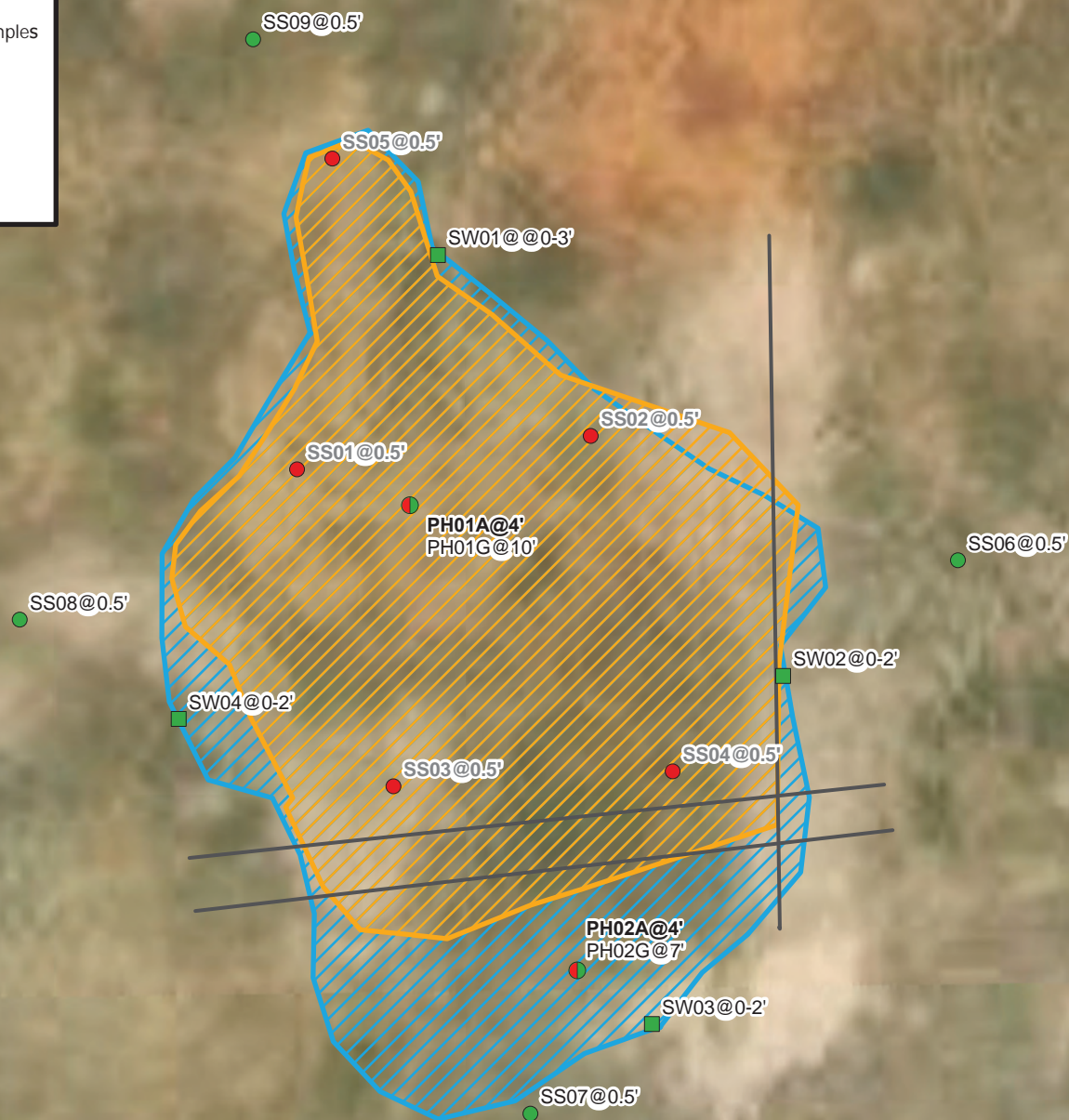
FIGURE

1



Legend

- Excavation Sidewall Sample in Compliance with Closure Criteria
- Assessment Soil Sample in Compliance with Closure Criteria
- Assessment Soil Sample with Concentrations Exceeding Closure Criteria
- Delineation Soil Samples with Concentrations Initially Exceeding Closure Criteria
- Flowline
- ▨ Release Extent
- ▨ Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Samples in grey indicate samples were removed during excavation activities.

0 12.5 25
 Feet

Sources: Environmental Systems Research Institute (ESRI)

Excavation and Delineation Soil Sample Locations

Maverick Permian, LLC
 EVGSAU 2437-001
 Incident Number: NAPP2303273838
 Unit P, Sec 24, T17S, R34E
 Lea County, New Mexico

FIGURE
2





TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 EVGSAU 2437-001
 Maverick Permian, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Assessment Soil Samples									
SS01	01/11/2023	0.5	12.7	297	4,660	32,100	4,570	41,330	10,200
SS02	01/11/2023	0.5	9.37	289	3,960	31,900	4,320	40,180	8,290
SS03	01/11/2023	0.5	38.4	451	3,390	12,000	1,730	17,120	13,400
SS04	01/11/2023	0.5	9.62	260	2,190	17,600	2,350	22,140	13,600
SS05	01/11/2023	0.5	0.152	0.825	7,210	<49.9	<49.9	7,210	49.1
SS06	01/11/2023	0.5	<0.0495	0.528	<50.0	50.1	<50.0	50.1	64.1
SS07	01/11/2023	0.5	<0.0497	<0.0994	<50.0	<50.0	<50.0	<50.0	347
SS08	01/11/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	234
SS09	06/01/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
Excavation Soil Samples									
SW01	06/05/2023	0-3	<0.050	0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW02	06/05/2023	0-2	<0.050	0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW03	06/05/2023	0-2	<0.050	0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW04	06/14/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
Delineation Soil Samples									
PH01A	06/16/2023	4	<0.100	40.2	1,320	10,900	1,770	13,990	17,200
PH01G	06/16/2023	10	<0.050	<0.300	<10.0	<10.0	12.8	12.8	160
PH02A	06/16/2023	4	<0.050	3.87	44.3	399	57.2	501	1,230
PH02D	06/16/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	400

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

Grey text represents samples that have been excavated

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

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QUESTIONS

Action 315513

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	315513
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2334650001
Incident Name	NAPP2334650001 EVGSAU 2437-001 @ 0
Incident Type	Oil Release
Incident Status	Reclamation Report Received
Incident Facility	[fGRL0824151757] EVGSAU Well No. 2437-001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EVGSAU 2437-001
Date Release Discovered	12/11/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 18 BBL Recovered: 9 BBL Lost: 9 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 6 BBL Recovered: 6 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 315513

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	315513
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 02/19/2024
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QUESTIONS, Page 3

Action 315513

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number: 315513
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	1800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	71.4
GRO+DRO	(EPA SW-846 Method 8015M)	60
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/12/2024
On what date will (or did) the final sampling or liner inspection occur	01/17/2024
On what date will (or was) the remediation complete(d)	01/22/2024
What is the estimated surface area (in square feet) that will be reclaimed	5500
What is the estimated volume (in cubic yards) that will be reclaimed	830
What is the estimated surface area (in square feet) that will be remediated	5500
What is the estimated volume (in cubic yards) that will be remediated	830

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 315513

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	315513
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 02/19/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 315513

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 315513
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 315513

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	315513
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	315576
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	500

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5500
What was the total volume (cubic yards) remediated	830
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	5500
What was the total volume (in cubic yards) reclaimed	830
Summarize any additional remediation activities not included by answers (above)	Remediation activities were completed simultaneously with Incident Number nAPP2303273838. A clay liner was installed in the floor of the 4' deep excavation prior to backfilling.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 02/19/2024
--	--

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QUESTIONS, Page 7

Action 315513

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	315513
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Reclamation Report**

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

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	5500
What was the total volume of replacement material (in cubic yards) for this site	800
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	01/23/2024
Summarize any additional reclamation activities not included by answers (above)	The excavation was backfilled and seeded with an NMSLO approved seed mix, as detailed in the Reclamation Plan (included with the approved Remediation Work Plan for Incident Number NAPP2303273838). Photographs of the backfilled excavation are included in Appendix D. Vegetation monitoring will be completed on an annual basis (at a minimum) until vegetation density is consistent with off-site conditions.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 02/19/2024

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QUESTIONS, Page 8

Action 315513

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 315513
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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CONDITIONS

Action 315513

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 315513
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	4/12/2024