E N S O L U M

December 15, 2023

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

Re: Closure Request EVGSAU Sat 6 Mobile Tester Incident Number NAPP2304744550 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the EVGSAU Sat 6 Mobile Tester (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2304744550.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit I, Section 33, Township 17 South, Range 35 East, in Lea County, New Mexico (32.7900°, -103.4551°) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (SLO).

On February 4, 2023, the gasket on the mobile tester failed, resulting in the release of approximately 17 barrels (bbls) of produced water and 3 bbls of crude oil into the pasture east of the pad. A vacuum truck was immediately dispatched to the Site and approximately 16 bbls of produced water were recovered. Maverick reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on February 9, 2023. The release was assigned Incident Number NAPP2304744550.

Since the release entered the pasture, the release location was assessed for determination of whether the release encroached into undisturbed areas to comply with the Cultural Properties Protection Rule (CPP) prior to disturbing the surface with mechanical equipment. The NMSLO was notified of potential disturbance of the pasture on a *Right of Entry Request for Remediation* form, which was 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 was fully executed on May 1, 2023. Ensolum also contracted with 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 were identified within and/or around the release extent requiring oversight or modifications to remediation efforts. 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 the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on the nearest available groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-05834-POD5. The well appears to be located north of the Site in the NMOSE database; however, ground truthing of the well places it approximately 203 feet southeast of the release extent. The groundwater well was drilled during in 1971 to depth of 234 feet bgs and has a reported depth to groundwater of 65 feet bgs. A water well drilled by the United States Geological Survey (324708103270401) is located southeast of the Site. The most recent water level data from that well is from December 20, 1990 and indicates groundwater was 66.94 feet bgs. Data from numerous other wells in the vicinity also document depth to water is 50 feet or greater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix B.

Water well L-05834-POD5 was drilled in 1971 by Southwestern Public Service Company to supply water for a steam electric generating plant in the region. It is currently owned by Xcel Energy, permitted through the United States Environmental Protection Agency (EPA) as a Non-Transient Non-Community Water System (NTNC; Water System Number NM3593213) for Xcel's Cunningham Station, located 8 miles to the southeast of the Site. A NTNC water system is a public water system that regularly supplies water to at least 25 of the same people at least six months per year. The majority of the system is located at the Cunningham Station. The system appears to have been reduced to a treatment system on site and water well L-05834-POD5, also Well #28 in Water System NM3593213, is currently inactive. However, since the water well could be used as a supply well, Maverick will consider it as a freshwater well located within 1,000 feet of the release.

The closest continuously flowing or significant watercourse to the Site is depression, characterized as a semipermanently flooded palustrine wetland by the National Wetlands Inventory, located approximately 1/4-mile southeast 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 from 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). Site receptors are identified on Figure 1.

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

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





SITE ASSESSMENT ACTIVITIES

Page 3

On February 8, 2023, site assessment activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Three assessment soil samples (SS01 through SS03) were collected within the release extent at a depth of 0.5 feet bgs to assess surficial soil within the release. Four assessment soil samples (SS04 through SS07) were collected around the visible release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the surface release. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was

The assessment 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 Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for assessment soil samples SS01 through SS03, collected within the release extent, indicated TPH and chloride concentrations exceeded the Site Closure Criteria. Additionally, soil sample SS02 contained greater than 50 mg/kg BTEX. Laboratory analytical results for assessment soil samples SS04 through SS07, collected around the release extent, indicated that all COC concentrations were compliant with the Site Closure Criteria, and defined the lateral extent of the surface release. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D. Based on visible staining in the release area and laboratory analytical results for assessment soil samples SS01 through SS03, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

completed during the Site visit and a photographic log is included in Appendix C.

Between November 17, 2023 and November 28, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil as indicated by visible staining in the release area and laboratory analytical results for the assessment soil samples. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach[®] chloride QuanTab[®] test strips. Excavation activities were performed using hand shovels, track-mounted backhoe, and transport vehicles. The excavation was completed to depths ranging from 1-foot to 2 feet bgs.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS23, FS05A, FS06A, FS06B, FS07A, FS09A, FS09B, FS10A, FS10B, FS16A, FS18A, FS19A were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Composite soil samples SW01 through SW04, SW02A, SW03A, and SW04A were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The excavation soil samples were handled and analyzed at Cardinal Laboratories following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.



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Laboratory analytical results for excavation floor samples FS01 through FS04, FS05A, FS06B, FS07A, FS08, FS09B, FS10B, FS11 through FS15, FS16A, FS17, FS18A, FS19A, FS20 through FS23 and excavation sidewall samples SW01 and SW02A through SW04A, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation samples FS05, FS06, FS06A, FS07, FS09, FS09A, FS10, FS10A, FS16, FS18, FS19, and SW02 through SW04 initially exceeded the Site Closure Criteria for TPH or chloride; additional soil was removed from these areas and subsequent excavation samples FS05A, FS06B, FS07A, FS09B, FS10B, FS16A, FS18A, FS19A, and SW02A through SW04A were compliant. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 4,500 square feet in areal extent. A total of approximately 370 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 4, 2023, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required. The release occurred off-pad in the pasture. As such, the disturbed pasture area will be reclaimed following the Reclamation Plan in Appendix E.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2304744550. NMOCD notifications are included in Appendix F and the final Form C-141 is included in Appendix G.

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

Sincerely, **Ensolum, LLC**

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Julianna Falcomata Staff Geologist

Sinée Cole

Aimee Cole Senior Managing Scientist

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

Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results



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- Appendix A ROE Permit and NMSLO Cultural Resources Cover Sheet
- Appendix B Referenced Well Records
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain of Custody Documentation
- Appendix E Reclamation Plan
- Appendix F NMOCD Notifications
- Appendix G Form C-141



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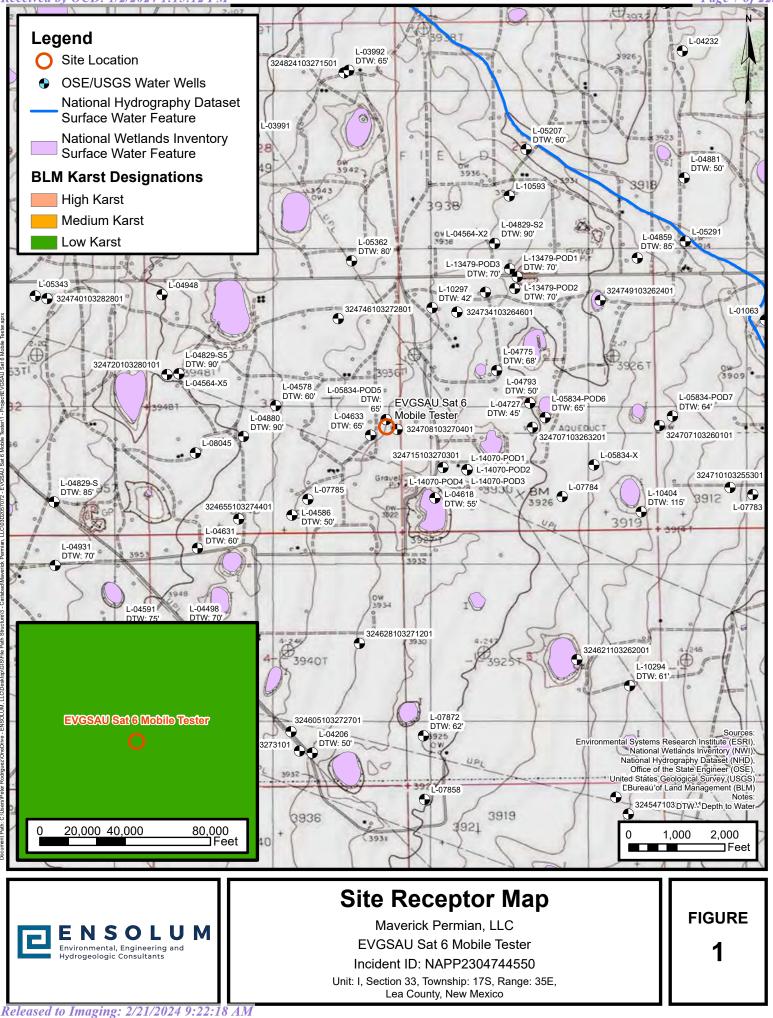


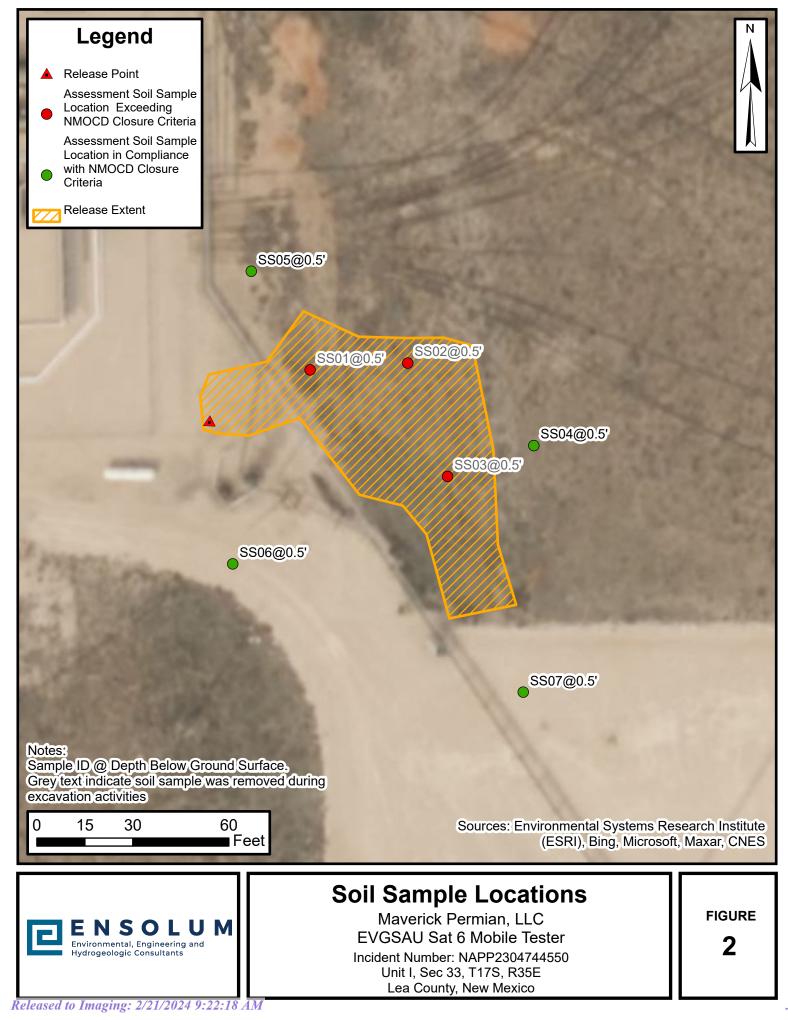
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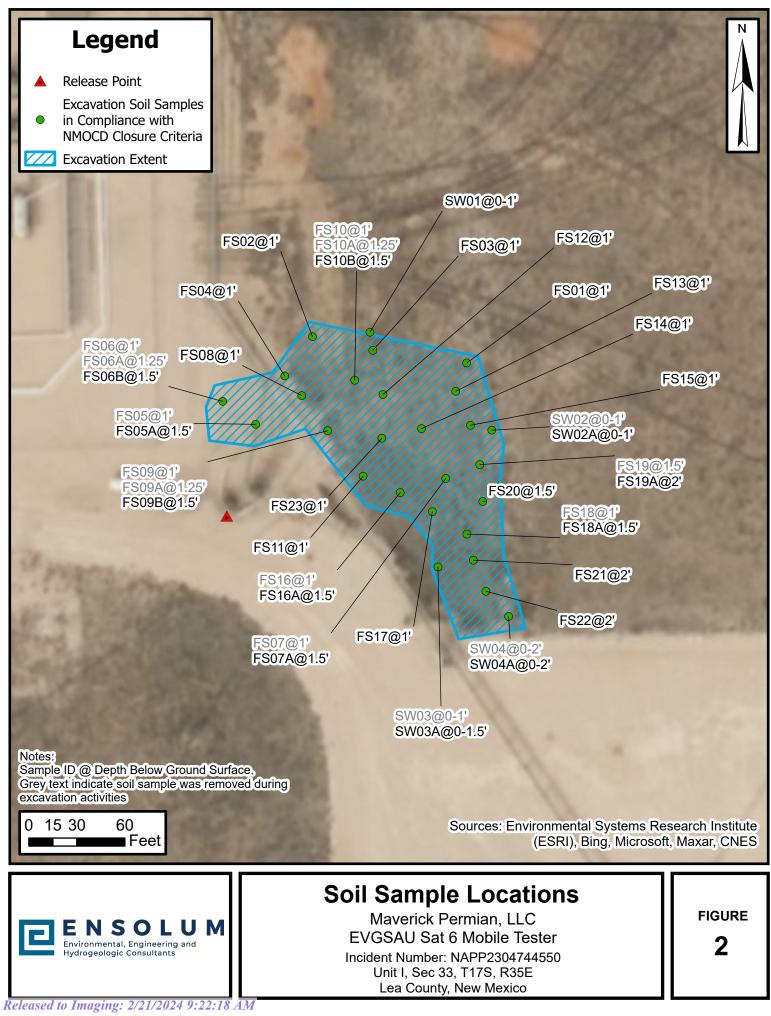
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TABLES

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				TAB	LE 1				
			SO	IL SAMPLE ANA EVGSAU Sat 6	LYTICAL RESU Mobile Tester	LTS			
				Maverick Pe					
				Lea County,					
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	2/8/2023	0.5	<0.099	24.5	1,110	20,000	2,810	23,900	6,190
SS02	2/8/2023	0.5	<0.099	81.5	736	17,300	2,250	20,300	4,700
SS03	2/8/2023	0.5	<0.101	27.7	308	8,480	1,100	9,890	7,060
SS04	2/8/2023	0.5	<0.002	<0.004	<50.0	<50.0	<50.0	<50.0	42.7
SS05	2/8/2023	0.5	<0.002	<0.004	<49.9	<49.9	<49.9	<49.9	11.1
SS06	2/8/2023	0.5	<0.002	<0.004	<49.9	<49.9	<49.9	<49.9	8.63
SS07	2/8/2023	0.5	<0.002	<0.004	<49.9	<49.9	<49.9	<49.9	114
				Excavation Sidev	vall Soil Samples	i			
SW01	11/20/2023	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
SW02	11/21/2023	0-1	<0.050	<0.300	<10.0	294	59.5	354	800
SW02A	11/28/2023	0-1	<0.050	<0.300	<10.0	24.5	<10.0	24.5	192
SW03	11/22/2023	0-1	<0.050	<0.300	<10.0	287	81.5	369	144
SW03A	11/28/2023	0-1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW04	11/27/2023	0-2	<0.050	<0.300	<10.0	455	97.2	552	528
SW04A	11/28/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
				Excavation Floo	or Soil Samples				
FS01	11/17/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	112
FS02	11/17/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS03	11/17/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS04	11/17/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS05	11/17/2023	1	<0.050	<0.300	<10.0	1,440	328	1,768	2,920
FS05A	11/28/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	528

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			SO	TAB IL SAMPLE ANA EVGSAU Sat 6 Maverick Pe Lea County,	LYTICAL RESU Mobile Tester ermian, LLC	LTS			
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)
FS06	11/17/2023	1	<0.050	<0.300	<10.0	193	107	300	352
FS06A	11/27/2023	1.25	<0.050	<0.300	<10.0	23	<10.0	22.8	832
FS06B	11/28/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	128
FS07	11/21/2023	1	<0.050	<0.300	<10.0	181.0	43.9	225	1,360
FS07A	11/28/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS08	11/20/2023	1	<0.050	<0.300	<10.0	24.0	<10.0	24.0	288
FS09	11/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	864
FS09A	11/22/2023	1.25	<0.050	<0.300	<10.0	266	48.0	314	784
FS09B	11/28/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	160
FS10	11/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	912
FS10A	11/22/2023	1.25	<0.050	<0.300	<10.0	159	27.6	187	1,620
FS10B	11/28/2023	1.5	<0.050	<0.300	<10.0	27.8	<10.0	27.8	160
FS11	11/20/2023	1	<0.050	<0.300	<10.0	28.7	<10.0	28.7	416
FS12	11/20/2023	1	<0.050	<0.300	<10.0	14.0	23	36.5	304
FS13	11/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	208
FS14	11/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	336
FS15	11/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	208
FS16	11/21/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	736
FS16A	11/28/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS17	11/22/2023	1	<0.050	<0.300	<10.0	52.0	<10.0	52.0	96.0
FS18	11/22/2023	1	<0.050	<0.300	<10.0	16.9	<10.0	16.9	656
FS18A	11/28/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	304
FS19	11/27/2023	1.5	<0.050	<0.300	<10.0	27.3	<10.0	27.3	672
FS19A	11/28/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	160
FS20	11/27/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	464
FS21	11/27/2023	2	<0.050	<0.300	<10.0	83.0	10.3	93.3	48.0

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			SOI	L SAMPLE ANA EVGSAU Sat (Maverick Pe	LE 1 LYTICAL RESU 6 Mobile Tester ermian, LLC New Mexico	LTS						
Sample Designation	Date	Denth Benzene Total BTEX TPH GRO TPH DRO TPH ORO Total TPH Chloride										
FS22	11/27/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0			
FS23	11/28/2023	1	<0.050	<0.300	<10.0	11.8	<10.0	11.8	80.0			

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon Grey text represents samples that have been excavated



APPENDIX A

ROE Permit and NMSLO Cultural Resources Cover Sheet

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

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

May 1, 2023

Stephanie Garcia Richard

COMMISSIONER

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

Attn: Bryce Wagoner

Re: Right-of-Entry Permit No.: RE-6493/EVGSAU Sat 6 Mobile Tester

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 – 6493

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"), Incident No. nAPP2304744550, 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
33	17S	35E	NE4SE4	Lea	32.7900,-103.4551

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

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4. CONDITIONS OF USE

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

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

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

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

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

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

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

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

8. NOTIFICATION

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

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PERMITTEE SIGNATURE

DATE: ____

Bryce Wagoner

HSE Specialist

PERMITTEE NAME AND TITLE (PRINT)

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in Plu BY: Stephanie Garcia Richard Commissioner of Public Dand DATE: Anni in



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

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

Exhibit Type (select one)

(if applicable)

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:

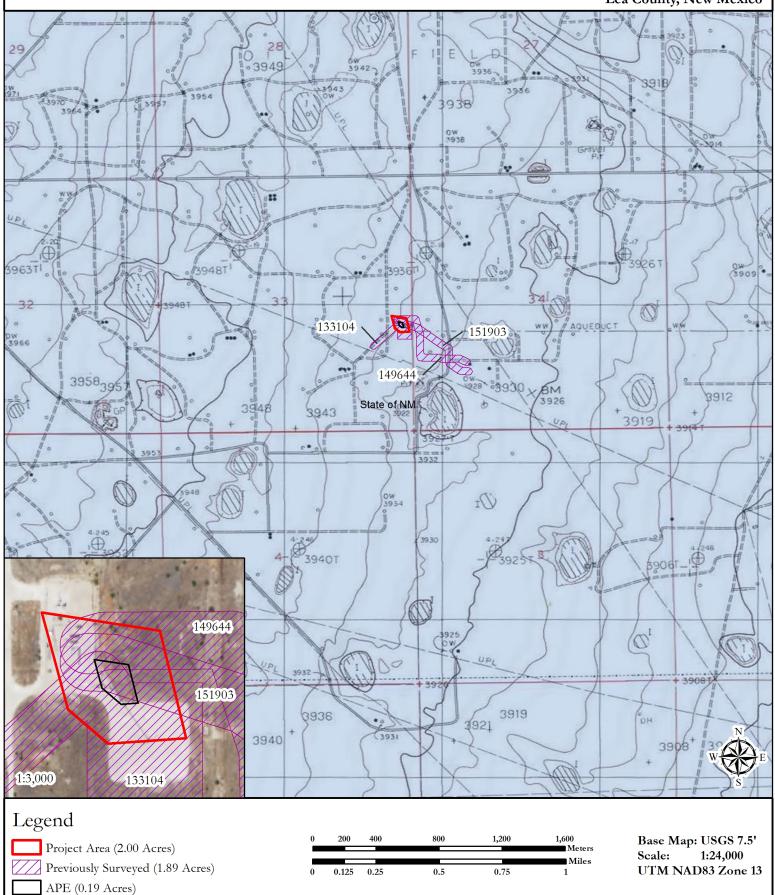
Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

Acknowledgment-Only:

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 Beaver Creek

EVGSAU Sat 6 Mobile Tester Ensolum, LLC T17S R35E Sec. 33 Lovington SW(1985) Quad. Map Monument-Seminole Draws Drainage Lea County, New Mexico





APPENDIX B

Referenced Well Records



New Mexico Office of the State Engineer **Point of Diversion Summary**

Well Tag		Number 5834 POD	95	(q	uarters a 54 Q16	e 1=NW 2 re smalles Q4 Se 4 33	t to largest c Tws	t) Rng	(NAD8 6446	3 UTM in me X 63 36291	Y	
x Driller Lice	ense:	46		Dril	ler Co	mpany:	AB	BOTT I	BROTH	ERS COM	PANY	
Driller Nar	ne:	MURRE	LL ABB	OTT								
Drill Start	Date:	12/23/19	971	Dril	l Finis	h Date:	12	2/28/19	71	Plug Date	e:	
Log File Da	ate:	01/13/19	972	PCV	V Rcv	Date:	03	8/29/19′	72	Source:		Shallow
Ритр Туре	e:	TURBI	N	Pipe	Disch	arge Siz	ze:			Estimated	l Yield:	
Casing Size	e:			Dep	th Wel	l:	23	84 feet		Depth Wa	ater:	65 feet
ĸ	Wate	r Bearing	g Stratific	cations	:	Тор	Bottom	Desci	ription			
						65	152	Sands	stone/Gr	avel/Congl	omerate	
						155	212	Sands	stone/Gr	avel/Congl	omerate	
Ľ.		Cas	ing Perfo	orations	5:	Тор	Bottom					
			0			114	234					
í.	Mete	r Numbe	r:	19673			Meter I	Make:				
	Mete	r Serial N	umber:	NO M	ETER		Meter I	Multip	lier:	1.0000		
	Num	ber of Dia	als:	6			Meter 7	-		Diversio	1	
	Unit	of Measu	re:	Gallor	18			• -	Percent:			
		e Multipl					Readin			Quarterly	7	
Meter I	x Readin	gs (in Ac	re-Feet)									
Read	Date	Year	Mtr Re	eading	Flag	Rdr	Comme	ent			Mtr	Amount Onlin
01/01	/2021	2021		6427	А	dd						0
03/31	/2021	2021		6427	А	dd						0
06/30)/2021	2021		6427	А	dd						0
09/30)/2021	2021		6427	А	dd						0
11/12	2/2021	2021		0	А	dd						0
01/01	/2022	2021		0	А	dd						0
03/31	/2022	2022		0	А	dd						0
07/01	/2022	2022		0	А	WEB	5					0 X
10/01	/2022	2022		0	А	WEB	5					0 X
01/01	/2023	2022		0	А	WEB						0 X
**Y]	TD Me	ter Amou	ints: Ye	ar	A	mount						
			202	21		0						
			202	22		0						

*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.

2/8/23 3:50 PM

Primai pet image list Primai Total A	le Number: y Purpose: y Status: ccres: Diversion: Owner: Contact:	L 0583 IND PMT 0 1150 SOUTH PATTY	INDU PERM		AL	Subbasin: Subfile: Cause/Case LIC SERVIO	- : -	Cross Ref	erence:	- Header: -	
ocuments on File											
Trn #	Doc File/A	ot	Sta 1	ntus 2	Trees	nsaction Des		From/ To	A amon	Diversion	Consumptiv
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- PR-	APPRO 1968-		PMT	ET	L 05	834		Т	0	1150	
<u>L 05834 POD6</u> <u>L 05834 POD7</u> <u>L 05834 POD8</u> *An x riority Summary	(*) after northin	Sh Sh	allow 1 allow 4	1 1 3 4 1 4	3 35 4 36	17S 35E 17S 35E 17S 35E 17S 35E was derived fro			N1/2		
nonny Summary	Priority 01/10/1966		atus PMT	A	cres 0	ļ	Pod Numb _ 05834 PC _ 05834 PC _ 05834 PC _ 05834 PC	DD5 S DD6 S DD7 S	Shallow Shallow Shallow Shallow		
x lace of Use Q Q 256 64 0	Q16 Q4Sec Tw 4 28 18		Acres		ersio		Use Pr IND 01	•		• Location D	
ource	. 20 10					-				ERATION PI	

Water S	ystem No	.:	V NM3593	Vater System D 3213	etail Info		n 1 Type:		NTNC			
	ystem Na		XCEL ENER	GY SPS CUNNINGHAM S	STATION	Federa	al Source:		GW			
1	l County		LEA			•	n Status:		А			
Principa	l City Ser	ved:	HOBBS				ty Date:		06-01-1977			
				Water Syst	em Conta	ncts						
	Туре			Contact		Communication						
				HILL, PATTY		Electronic Type			Value			
AC -	Administ	rative		970 CR 65		-			nill@xcelenergy.com			
	Contact			EARTH, TX 790	31		one Typ		Value			
				,			S - Busine		806-272-8028			
						-	B - Mobi	ile	806-638-9987			
						Elect Ty EMA	ре		Value			
DO - De	esignated	Operator			P O BOX 1650				nis@xcelenergy.com			
				HUBBS, NM 882	OBBS, NM 88240			e	Value			
							5 - Busine 7 - Facsim		575-393-5717			
					Annual Operating Perio			nile	575-393-5208			
				-	ating Perio	od(s)						
				Start Month/Day	End Mon	•			Population			
12-21	-2006	No En	d Date	1/1	12/3		N	Т	54			
					onnection(s	,		1				
	Туре			Count	ount Mo				Meter Size			
	CB			1				MU				
				Service	e Area(s)							
		Co	de				Na	me				
		N	Т			INDUS	ΓRIAL/A	GRIC	ULTURAL			
			Sy	stem Certificat	tion Requ	iremei	nts					
		Cert	ification		-		Code		Begin Date			
				Water Syst	em Faciliti	ies		.				
Fac.		••••		Туре			Unit Pro					
ID	F	acility N	ame	Status Avail.			atment (eatment		ive Name			
00010000	DIGT					11	eatment	Proces				
<u>93213000</u>	DIST			DS - A - P								
	TREATME			TP - A - P	CHLORIN	NATION DIS	SINFECTION		HYPOCHLORINATION, POST			
<u>93213038</u> <u>93213039</u>	STORAGE TANK)	1AINK #2	חטח	ST - A - P WL - A - P								
	DW #1 TREATME		Г #1	TP - A - P	RO UNIT	INIOP	CANICS DEM	OVAT	DEVEDSE OSMOSIS			
		INI PLAIN	1 #1		KU UNII	INOR	GANICS REM	OVAL	REVERSE OSMOSIS			
<u>93213001</u>				WL - I - P								
	WELL #2			WL - I - P								
	WELL #3			WL - I - P								
	WELL #4			WL - I - P								
<u>93213005</u>	WELL #5			WL - I - P								

I			I	I			
93213006 WELL :			WL - I - P				
93213007 WELL :			WL - I - P				
93213008 WELL			WL - I - P				
93213009 WELL			WL - I - P				
93213010 WELL :			WL - I - P				
<u>93213011</u> WELL :			WL - I - P				
93213012 WELL :			WL - I - P				
<u>93213013</u> WELL :			WL - I - P				
<u>93213014</u> WELL :			WL - I - P				
93213015 WELL :			WL - I - P				
93213016 WELL :			WL - I - P				
93213017 WELL :			WL - I - P				
93213018 WELL			WL - I - P				
93213019 WELL			WL - I - P				
93213020 WELL :			WL - I - P				
93213021 WELL :			WL - I - P				
<u>93213022</u> WELL :			WL - I - P				
93213023 WELL :			WL - I - P				
93213024 WELL :			WL - I - P				
<u>93213025</u> WELL :			WL - I - P				
93213026 WELL	#26		WL - I - P				
93213027 WELL			WL - I - P WL - I - P				
93213028 WELL							
	SAMPLING STATION #1		SS - I - P				
93213031 WELL			WL - I - P				
93213032 WELL :			WL - I - P				
93213033 WELL :			OT - I - P		-		
937131134	#11 TREATMI MENT UNIT	ENT SKID	TP - I - P	AERATION UNIT	ORGANICS REMC	VAL	AERATION, CASCADE
93213035 BOOST	ER STATION	#1	PC - I - P				
93213036 PRESS (STANI	URE TANK #1 OPIPE)	l	PC - I - P				
	.GE TANK #1 STORAGE T		ST - I - P				
		,	Water System	Facility Flov	ws		
Supplying Faci	lity ID No.		Facility Name	,	acility ID No.	Rec	ceiving Facility Name
TP - 9321			NT PLANT #2	ST - 9.	3213038	STO	RAGE TANK #2 (HIGH TANK)
ST - 9321	3038		TANK #2 (HIGH ANK)	DS - 9	3213000		DIST
WL - 9321			W #1	TP - 9'	3213040	TRI	EATMENT PLANT #1
TP - 9321			NT PLANT #1		3213040	TREATMENT PLANT #1 TREATMENT PLANT #2	
			Water Pi				
Water System	\ Treatmen	t Status	Water 1	in chases			
No Water Purcl	-						
			Buyers o	of Water			
Water System (O)ther	/ Populatio	n / Availabi	U		mergency, (I)	nterim	n, (P)ermanent,
No Buyers							
TNO DUYEIS							



National Water Information System: Web Interface USGS Water Resources USGS Home Contact USGS Search USGS

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 Groundwater
 ✓

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 ✓

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Groundwater levels for the Nation

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Agency code = usgs site_no list =

• 324708103270401

Minimum number of levels = 1 <u>Save file of selected sites</u> to local disk for future upload

USGS 324708103270401 17S.35E.33.422442

Lea County, New Mexico Latitude 32°47'23", Longitude 103°27'14" NAD27 Land-surface elevation 3,935.00 feet above NGVD29 The depth of the well is 234 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

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•

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
1986-01-16		C	62610		3870.92	NGVD29	1	Z			А
1986-01-16		C	62611		3872.39	NAVD88	1	Z			А
1986-01-16		C	72019	64.08			1	Z			А
1990-12-20		C	62610		3868.06	NGVD29	1	Z			А
1990-12-20		C	62611		3869.53	NAVD88	1	Z			А
1990-12-20		E	72019	66.94			1	Z			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	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quarters	are 1=N	[W 2=]	NE $3=S$	W 4=SE)			
			(quarter	s are sm	allest t	o larges	t)	(NAD83 U	TM in meters)	
Well Tag	POD	Number	Q64 Q	16 Q4	Sec	Tws	Rng	Χ	Y	
	L 04	4633		2 4	33	17S	35E	644564	3629010* 🧲	
Driller Lic	ense:	46	Driller (Compa	ny:	AB	ВОТТ В	ROTHERS	S COMPANY	
Driller Na	me:	ABBOTT, MUR	RELL							
Drill Start	Date:	04/20/1961	Drill Fin	ish Da	te:	0	4/20/196	1 Pl	ug Date:	06/09/1961
Log File Date: 04/27/1961		PCW Ro	PCW Rcv Date:					urce:	Shallow	
Pump Type:			Pipe Dis	charge	e Size	:		Es	:	
Casing Siz	æ:	6.63	Depth W	ell:		1	30 feet	De	epth Water:	65 feet
X	Wate	er Bearing Stratif	fications:	Та	op B	ottom	Descri	iption		
				e	55	130	Sandst	one/Grave	/Conglomerate	;
X		Casing Per	forations:	Та	op B	ottom	l			
					65	100				

*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.

2/8/23 4:02 PM

POINT OF DIVERSION SUMMARY

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Form WR-23

STATE ENGINEER OFFICE WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

UM ABO

LL STATE "T" No. 7

Section 1

Section 1		(A) Owner of well	HONDO DRILLING CO	PANY
		Street and Number		****
		City	Midland	
		Well was drilled under	Permit No. 1-4633	and is located in the
	•	S1 74 NB 1/4 SI	E	Twp. 17 SoutiRge.35 East
		(B) Drilling Contractor	r Abbott Brothers	License No
	0	Street and Number	P.O. Box: 637	
	<u> </u>	City	Hobbs	State New Mexico
		Drilling was commence	ed	1 20 19
		Drilling was completed		April 20 19 61
(Plat of 640 acres)				

(Plat of 640 acres)

Elevation at top of casing in feet above sea level______Total depth of well______ State whether well is shallow or artesian_______Depth to water upon completion_____65_____

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth From	in Feet To	Thickness in Feet	Descripti	ion of Water-Bearing Formation	
1	65	130	65 -	water sand	, , , , , , , , , , , , , , , , , , , ,	
2						
3						
4					· · · ·	
5						

Section 3 RECORD OF CASING									
Dia Poun	Pounds	Threads	epth	pth Feet	Type Shoe	Perforations			
in.	ft.	in	Top	Bottom	reet	Type Shoe -	From	To	
6 5/8	17	10	0	100	100	open	65	100	
				· · ·					
						· · · · ·			

Section 4

RECORD OF MUDDING AND CEMENTING

beetion 1			ILLOOKD .			021112111				
-	in Feet	Diameter Hole in in.	Tons Clay	No. Sacks of Cement			Meth	ods Used		
From	То	Hole in in.	Clay	Cement	_				T	32
									E.	
								1	<u>È</u> m	3
									15	1
										ŀ\$
		1			· · · · ·		-			AM
Section 5				PLUGGING	RECO	RD				
NTama af	Dhuardina	Contractor					Ţ	iconco No	5 17	\sim
Name or	Plugging	Contractor		~			L	icense No	<u> </u>	5
Tons of C	lay used		fons of Rou	ghage used			Type of	roughage		
Plugging	method us	sed				Dat	e Plugged			
Plugging	approved	by:				Cemen	t Plugs wer	e placed a	s follow	vs:
		N 9				Denth	of Plug			
	-		Basin Superv	visor	No.	From	To	No. o	f Sacks	Used
	FOR USE	OF STATE EN	GINEERONL	Y						
Date R	eceived	ER OFFICE	aire engin e	15						
1 1 1		S4 :7 AA	72 894 16	361 mh						
					و بر معروده	an ni ang ting al i		/de 10° and de antige d'at the second d'at the second de la	an mark of the second state	and a main international second
File No.	1-4	633	t	Jse_ <i>Ο.</i> ω	.D	L	ocation No.	17.35.	334	24

Page 30 of 223

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Depth	in Feet	Thickness	0.1	There of Meterial Presuntened
From	То	in Feet	Color	Type of Material Encountered
0	1	1		soil
1	19	18		caliche
19	65	46		sen â
65	130	65		water sand
				<u>.</u>
	1			
				1
	· .			· · · · · · · · · · · · · · · · · · ·
		<u></u>	·	<u>·····</u>
		<u> </u>		
				· · · · · · · · · · · · · · · · · · ·
	1			
e unders	signed her	eby certifies	that, to the best	t of his knowledge and belief, the foregoing is a true and
	or me u			murell aboatto
				Well Driller
				wen Driller
)		· · · · · ·
				te ing a characteristic to the
			°. ≞	
				- • 21
				9. Article
				• • •

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Form WR-23 SANTA FE

STATE ENGINEER OFFICE

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1		(4) 0	on of	11(ONDO DRILLING	COMPANY		
						<u>5x 116</u>			
			-					Pexas	
								d is located in the	
			St*	NE4	SE 1	4 of Section		Rge	
			(B) Drill	ling Contra	actor		Lice	nse No	
		0	Street an	d Number.					
<u> </u>	- <u> </u>	~ ~	City						
			Drilling	was comm	enced		<u></u>	19	
			Drilling v	was comple	eted		<u> </u>		
	Plat of 640 a						``		
State w	hether wel	l is shallo	ow or artesian			Depth to wat	er upon comple	etion	
Section	2		PRI		ATER-BEAR	RING STRATA		1961 STA	
	Depth in	Feet	Thickness in	1					
No.	From	To	Feet	bescription of Water-Bearing Formation					
1								30 0	
2									
								777 3	
3								MOF 8	
4								FIC FIC	
5								111	
Section	3			RECOR	D OF CA	SING			
Dia	Pounds	Thread	ds De	Depth		Tune Shee	Perforations		
in.	ft.	a, in	Top	Bottom	Feet	Type Shoe	From	To	
Section	4		RECO						
		Diama							
Depth in Feet Diameter From To Hole in in.			Tons No. Sacks of Clay Cement		f Methods Used				

Section 5	, PL	UGGING REC	ORD			
Name of Plugging Contractor	Abbott	Brothers			License No.	WD-46
Street and NumberB	DX 637	City	Hobbs	S	StateN	ow Mexice
Tons of Clay used	Tons of Rougha	ge used		Type of	roughage	
Plugging method used . Wet cond	. plug over	rubble fill	Dat	e Plugged.	June 9	
Plugging approved by:	1 ×	2/	Cemen	t Plugs wer	e placed as	follows:
Almuth	Basin Supervise	N	o. Depth	of Plug To	No. of	Sacks Used
FOR USE OF STATE EN	GINEER ONLY		<u>t</u> 3	6	4	
Date Received 10 1310/1310	<u> 11418</u>					·
II:8 MA SS NUU	1961					
File No. 2-4633 Use O. W.D. Location No. 12.35.33.428						

445978 Page 32 of 223

Section 6			OF WELL	
Depth i	in Feet	Thickness	Color	Type of Material Encountered
From	To	in Feet	Color	Type of Material Encountered
		•	1	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

MACUE

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APPENDIX C

Photographic Log

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APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/20/2023 4:42:55 PM

JOB DESCRIPTION

EVGSAU Sat 6 Mobile Tester SDG NUMBER Lea County NM

JOB NUMBER

890-4095-1

SDG

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

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Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

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

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

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QC Sample Results	10
QC Association Summary	16
Lab Chronicle	18
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

ceived by OC	CD: 1/2/2024 1:15:12 PM	Page 40 of 2	223
	Definitions/Glossary		1
Client: Ensolu	Jm	Job ID: 890-4095-1	
Project/Site: F	EVGSAU Sat 6 Mobile Tester	SDG: Lea County NM	
Qualifiers			3
GC VOA Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
S1+	Surrogate recovery exceeds control limits, high biased.		5
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi VOA			
Qualifier	Qualifier Description		
*1	LCS/LCSD RPD exceeds control limits.		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		8
HPLC/IC			
Qualifier	Qualifier Description		9
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		

¤	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

Job ID: 890-4095-1 SDG: Lea County NM

Job ID: 890-4095-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4095-1

Receipt

The samples were received on 2/13/2023 3:02 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 5.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4095-1), SS02 (890-4095-2) and SS03 (890-4095-3).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46469 and analytical batch 880-46483 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (890-4095-2). 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: SS01 (890-4095-1), SS02 (890-4095-2) and SS03 (890-4095-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 (890-4095-1), SS02 (890-4095-2) and SS03 (890-4095-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46409 and analytical batch 880-46479 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

HPLC/IC

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

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

Result Qualifier

<0.0990 U

1.83

8.96

9.24

4.51 13.8

%Recovery Qualifier

272 S1+ RL

0.0990

0.0990

0.0990

0.198

0.0990

0.198

Limits

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

02/14/23 14:50

02/14/23 14:50

02/14/23 14:50

02/14/23 14:50

02/14/23 14:50

02/14/23 14:50

Prepared

02/14/23 14:50

Job ID: 890-4095-1 SDG: Lea County NM

Client Sample ID: SS01

Date Collected: 02/08/23 11:30 Date Received: 02/13/23 15:02

Sample Depth: 0.5

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

Lab Sample	ID:	890-4095-1

Analyzed

02/16/23 04:41

02/16/23 04:41

02/16/23 04:41

02/16/23 04:41

02/16/23 04:41

02/16/23 04:41

Analyzed

02/16/23 04:41

Matrix: Solid

Dil Fac

50

50

50

50

50

50

Dil Fac

5

50 50	
ac	
1	
ac	
1	

1,4-Difluorobenzene (Surr)	94		70 - 130			02/14/23 14:50	02/16/23 04:41	50
- Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	24.5		0.198	mg/Kg			02/16/23 09:39	1
- Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23900		500	mg/Kg			02/19/23 12:25	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1110		500	mg/Kg		02/15/23 11:56	02/17/23 04:21	10
Diesel Range Organics (Over C10-C28)	20000	*1	500	mg/Kg		02/15/23 11:56	02/17/23 04:21	10
Oll Range Organics (Over C28-C36)	2810		500	mg/Kg		02/15/23 11:56	02/17/23 04:21	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	237	S1+	70 - 130			02/15/23 11:56	02/17/23 04:21	10
o-Terphenyl	413	S1+	70 - 130			02/15/23 11:56	02/17/23 04:21	10
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6190		49.8	mg/Kg			02/16/23 21:34	10
Client Sample ID: SS02						Lab Sar	nple ID: 890-	4095-2
Date Collected: 02/08/23 11:35							Matr	ix: Solid
Date Received: 02/13/23 15:02								
Sample Depth: 0.5								

Method: SW846 8021B - Volatile Organi	ic Compounds (GC)
Amelia	D 11 O 117

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0994	U	0.0994	mg/Kg		02/14/23 14:50	02/16/23 05:02	50
Toluene	6.95		0.0994	mg/Kg		02/14/23 14:50	02/16/23 05:02	50
Ethylbenzene	26.5		0.396	mg/Kg		02/15/23 16:11	02/16/23 19:35	200
m-Xylene & p-Xylene	33.0		0.199	mg/Kg		02/14/23 14:50	02/16/23 05:02	50
o-Xylene	15.0		0.0994	mg/Kg		02/14/23 14:50	02/16/23 05:02	50
Xylenes, Total	48.0		0.199	mg/Kg		02/14/23 14:50	02/16/23 05:02	50

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Released to Imaging: 2/21/2024 9:22:18 AM

Client: Ensolum

5

Client Sample Results

Job ID: 890-4095-1 SDG: Lea County NM

Project/Site: EVGSAU Sat 6 Mob	ile Tester						SDG: Lea Co	unty NN
Client Sample ID: SS02 Date Collected: 02/08/23 11:35 Date Received: 02/13/23 15:02 Sample Depth: 0.5						Lab Sar	nple ID: 890- Matri	4095-2 ix: Solic
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	469	-	70 - 130			02/14/23 14:50	02/16/23 05:02	50
1,4-Difluorobenzene (Surr)	79		70 - 130			02/14/23 14:50	02/16/23 05:02	50
Method: TAL SOP Total BTEX	- Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	81.5		0.396	mg/Kg			02/16/23 09:39	
Method: SW846 8015 NM - Dies								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	20300		499	mg/Kg			02/19/23 12:25	
Method: SW846 8015B NM - Di					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	736		499	mg/Kg		02/15/23 11:56	02/17/23 04:44	1
Diesel Range Organics (Over C10-C28)	17300	*1	499	mg/Kg		02/15/23 11:56	02/17/23 04:44	1
Oll Range Organics (Over C28-C36)	2250		499	mg/Kg		02/15/23 11:56	02/17/23 04:44	1
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	135	S1+	70 - 130			02/15/23 11:56	02/17/23 04:44	1
o-Terphenyl	351	S1+	70 - 130			02/15/23 11:56	02/17/23 04:44	1
Method: EPA 300.0 - Anions, Ic		-						
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	4700		50.0	mg/Kg			02/16/23 21:38	1
lient Sample ID: SS03						Lab San	nple ID: 890-	
Date Collected: 02/08/23 11:40 Date Received: 02/13/23 15:02 Dample Depth: 0.5							Matri	ix: Solid
Method: SW846 8021B - Volatil	le Organic Comp	ounds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.101	U	0.101	mg/Kg		02/14/23 14:50	02/16/23 05:22	5
Toluene	1.93		0.101	mg/Kg		02/14/23 14:50	02/16/23 05:22	5
Ethylbenzene	10.5		0.101	mg/Kg		02/14/23 14:50	02/16/23 05:22	5
m-Xylene & p-Xylene	10.4		0.201	mg/Kg		02/14/23 14:50	02/16/23 05:22	5
o-Xylene	4.87		0.101	mg/Kg		02/14/23 14:50	02/16/23 05:22	5
Xylenes, Total	15.3		0.201	mg/Kg		02/14/23 14:50	02/16/23 05:22	5
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		S1+	70 - 130			02/14/23 14:50	02/16/23 05:22	5
1,4-Difluorobenzene (Surr)	92		70 - 130			02/14/23 14:50	02/16/23 05:22	5
Method: TAL SOP Total BTEX - Analyte		culation Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
		Quanner	NL			riepaieu		

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02/16/23 09:39

Released to Imaging: 2/21/2024 9:22:18 AM

Total BTEX

0.201

mg/Kg

27.7

Client Sample Results

Job ID: 890-4095-1 SDG: Lea County NM

Lab Sample ID: 890-4095-3

Client Sample ID: SS03

Date Collected: 02/08/23 11:40 Date Received: 02/13/23 15:02

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9890		250	mg/Kg			02/19/23 12:25	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	308		250	mg/Kg		02/15/23 11:56	02/17/23 05:06	5
Diesel Range Organics (Over C10-C28)	8480	*1	250	mg/Kg		02/15/23 11:56	02/17/23 05:06	5
Oll Range Organics (Over C28-C36)	1100		250	mg/Kg		02/15/23 11:56	02/17/23 05:06	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			02/15/23 11:56	02/17/23 05:06	5
p-Terphenyl	175	S1+	70 - 130			02/15/23 11:56	02/17/23 05:06	5
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7060		49.5	mg/Kg			02/16/23 21:43	10

Matrix: Solid

Surrogate Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

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

380-24811-A-1-D MS	Client Sample ID Matrix Spike	BFB1 (70-130) 109	DFBZ1 (70-130)	
380-24811-A-1-D MS	Matrix Spike		(70-130)	
	•	109		
380-24811-A-1-E MSD	Materia Onilla Dunillanta	100	94	
	Matrix Spike Duplicate	92	85	
390-4095-1	SS01	272 S1+	94	
390-4095-2	SS02	469 S1+	79	
390-4095-3	SS03	233 S1+	92	
390-4105-A-1-A MS	Matrix Spike	112	104	
390-4105-A-1-B MSD	Matrix Spike Duplicate	114	109	
_CS 880-46330/1-A	Lab Control Sample	112	100	
_CS 880-46469/1-A	Lab Control Sample	105	107	
_CSD 880-46330/2-A	Lab Control Sample Dup	114	109	
_CSD 880-46469/2-A	Lab Control Sample Dup	106	107	
MB 880-46300/5-A	Method Blank	77	92	
MB 880-46330/5-A	Method Blank	79	90	
MB 880-46469/5-A	Method Blank	78	91	
Surrogate Legend				
	(Curr)			
BFB = 4-Bromofluorobenzene DFBZ = 1,4-Difluorobenzene (3				

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

Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 880-24624-A-7-D MS Matrix Spike 85 91 880-24624-A-7-E MSD Matrix Spike Duplicate 99 107 890-4095-1 SS01 237 S1+ 413 S1+ SS02 890-4095-2 135 S1+ 351 S1+ 890-4095-3 SS03 95 175 S1+ LCS 880-46409/2-A Lab Control Sample 98 113 LCSD 880-46409/3-A Lab Control Sample Dup 85 99 MB 880-46409/1-A Method Blank 85 108

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Prep Type: Total/NA

Prep Type: Total/NA

2/20/2023

										Client Sa	mple ID: Me	thod	Blank
Matrix: Solid											Prep Typ		
Analysis Batch: 46358											Prep Ba		
		ΜВ	МВ										
Analyte	Re	sult	Qualifier	RI	_	Unit		D	Р	repared	Analyzed		Dil Fac
Benzene	<0.00	200	U	0.00200)	mg/K	g	_	02/1	4/23 11:24	02/15/23 10:5	54	1
Toluene	<0.00	200	U	0.00200)	mg/K	g		02/1	4/23 11:24	02/15/23 10:5	54	1
Ethylbenzene	<0.00	200	U	0.00200)	mg/K	g		02/1	4/23 11:24	02/15/23 10:5	54	1
m-Xylene & p-Xylene	<0.00	400	U	0.00400)	mg/K	g		02/1	4/23 11:24	02/15/23 10:5	54	1
o-Xylene	<0.00	200	U	0.00200)	mg/K	g		02/1	4/23 11:24	02/15/23 10:5	54	1
Xylenes, Total	<0.00	400	U	0.00400)	mg/K	g		02/1	4/23 11:24	02/15/23 10:5	54	1
		ΜВ	МВ										
Surrogate	%Recov	/ery	Qualifier	Limits					P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)		77		70 - 130	-					4/23 11:24	02/15/23 10:	54	1
1,4-Difluorobenzene (Surr)		92		70 - 130					02/1	4/23 11:24	02/15/23 10:	54	1
 Lab Sample ID: MB 880-46330/5-A										Client Sa	mple ID: Me	thod	Blank
Matrix: Solid										Sherit So	Prep Typ		
Analysis Batch: 46358		MR	мв								Prep Ba	iich.	40330
Analyte			Qualifier	RI	_	Unit		D	Р	repared	Analyzed		Dil Fac
Benzene	<0.00	200	U	0.00200)	mg/K	g	_		4/23 14:50	02/15/23 21:3	80	1
Toluene	<0.00	200	U	0.00200)	mg/K	g		02/1	4/23 14:50	02/15/23 21:3	80	1
Ethylbenzene	<0.00			0.00200)	mg/K	-			4/23 14:50	02/15/23 21:3		1
m-Xylene & p-Xylene	<0.00			0.00400		mg/K				4/23 14:50	02/15/23 21:3		
o-Xylene	<0.00			0.00200		mg/K	-			4/23 14:50	02/15/23 21:3		1
Xylenes, Total	<0.00			0.00400		mg/K	-			4/23 14:50	02/15/23 21:3		1
· · · · · · · · · · · · · · · · · · ·							5					-	
		MВ	MB						_				
Surrogate	%Recov	-	Qualifier	Limits	-					repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)		79 90		70 ₋ 130 70 <u>-</u> 130						4/23 14:50 4/23 14:50	02/15/23 21:		1 1
1,4-Difluorobenzene (Surr)		90		70 - 730					02/1	4/23 14.50	02/15/23 21::	50	1
Lab Sample ID: LCS 880-46330/1-A								С	lient	Sample	ID: Lab Cont	rol S	ample
Matrix: Solid											Prep Typ	e: To	tal/NA
Analysis Batch: 46358											Prep Ba	tch:	46330
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene				0.100	0.1083		mg/Kg			108	70 - 130		
Toluene				0.100	0.1038		mg/Kg			104	70 - 130		
Ethylbenzene				0.100	0.1058		mg/Kg			106	70 - 130		
m-Xylene & p-Xylene				0.200	0.2227		mg/Kg			111	70 - 130		
o-Xylene				0.100	0.1126		mg/Kg			113	70 - 130		
	LCS	LCS											
Surrogate %R	ecovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	112			70 - 130									
1,4-Difluorobenzene (Surr)	100			70 - 130									
							0	ort	Ser		ab Control O		o D
Lab Sample ID: LCSD 880-46330/2-4	•						CII	ent	Sam	ihie in: F	ab Control S		
Matrix: Solid											Prep Typ		
Analysis Batch: 46358				Or "	1.005	1.000					Prep Ba	itch:	
A web de				Spike		LCSD	11-21		-	0/ D	%Rec		RPD
Analyte				Added	Result	Qualifier	Unit			%Rec	Limits	RPD	Limit

5

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Job ID: 890-4095-1 SDG: Lea County NM

Benzene

0.1045

mg/Kg

104

70 - 130

0.100

4

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Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester Job ID: 890-4095-1 SDG: Lea County NM

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

Lab Sample ID: LCSD 880-4	6330/2-A					Clie	ent Sam	ple ID: I	Lab Contro	l Sampl	le Dup
Matrix: Solid									Prep 1	Г <mark>уре: То</mark>	tal/NA
Analysis Batch: 46358									Prep	Batch:	46330
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.1046		mg/Kg		105	70 - 130	1	35
Ethylbenzene			0.100	0.1105		mg/Kg		111	70 - 130	4	3
m-Xylene & p-Xylene			0.200	0.2331		mg/Kg		117	70 - 130	5	3
o-Xylene			0.100	0.1186		mg/Kg		119	70 - 130	5	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	109		70 - 130								
Lab Sample ID: 890-4105-A	-1-A MS							Client	Sample ID	: Matrix	Spik
Matrix: Solid										Type: To	
Analysis Batch: 46358									Prep	Batch:	4633
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	< 0.00202	U	0.100	0.09306		mg/Kg		92	70 - 130		
Toluene	0.00254		0.100	0.08782		mg/Kg		85	70 - 130		
Ethylbenzene	<0.00202	U	0.100	0.09056		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene	0.00622		0.201	0.1922		mg/Kg		93	70 - 130		
o-Xylene	<0.00202	U	0.100	0.09585		mg/Kg		94	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								
Lab Sample ID: 890-4105-A	-1-B MSD					С	lient Sa	mple ID): Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep 1	Гуре: То	tal/N/
Analysis Batch: 46358									Prep	Batch:	46330
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi

	Sample	Sample	Spike	MOD	NISD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0990	0.09725		mg/Kg		97	70 - 130	4	35
Toluene	0.00254		0.0990	0.09032		mg/Kg		89	70 - 130	3	35
Ethylbenzene	<0.00202	U	0.0990	0.09189		mg/Kg		93	70 - 130	1	35
m-Xylene & p-Xylene	0.00622		0.198	0.1949		mg/Kg		95	70 - 130	1	35
o-Xylene	<0.00202	U	0.0990	0.09513		mg/Kg		94	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-46469/5-A Matrix: Solid Analysis Batch: 46483

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 02/15/23 16:11 02/16/23 11:46 mg/Kg 1 02/15/23 16:11 Toluene <0.00200 U 0.00200 mg/Kg 02/16/23 11:46 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 02/15/23 16:11 02/16/23 11:46 1 m-Xylene & p-Xylene <0.00400 U 0.00400 02/15/23 16:11 02/16/23 11:46 mg/Kg 1

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 46469

Client Sample ID: Method Blank

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Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Lab Sample ID: MB 880-46469/5-	Α								Client Sa	mple ID: Metho	d Blank
Matrix: Solid										Prep Type: 7	Fotal/NA
Analysis Batch: 46483										Prep Batcl	n: 46469
	М	B MB									
Analyte	Resu	t Qualifier	RL		Unit		D	Р	repared	Analyzed	Dil Fac
o-Xylene	<0.0020) U	0.00200		mg/K	g	_	02/1	5/23 16:11	02/16/23 11:46	1
Xylenes, Total	<0.0040	U U	0.00400		mg/K	g		02/1	5/23 16:11	02/16/23 11:46	1
	М	B MB									
Surrogate	%Recover	Qualifier	Limits					Р	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7	8	70 - 130					02/1	5/23 16:11	02/16/23 11:46	1
1,4-Difluorobenzene (Surr)	9	1	70 - 130					02/1	5/23 16:11	02/16/23 11:46	1
Lab Sample ID: LCS 880-46469/1 Matrix: Solid Analysis Batch: 46483	-A							mern	Sample	ID: Lab Control Prep Type: ⁻ Prep Batcl	Fotal/NA
			Spike	1.00							
			Opike	LCS	LCS					%Rec	
Analyte			Added		LCS Qualifier	Unit		D	%Rec	%Rec Limits	
Analyte Benzene			•			Unit mg/Kg		<u>D</u>	%Rec		
			Added	Result				<u>D</u>		Limits	
Benzene			Added 0.100	Result 0.1288		mg/Kg		<u>D</u>	129	Limits	
Benzene Toluene			Added 0.100 0.100	Result 0.1288 0.1150		mg/Kg mg/Kg		<u>D</u>	129 115	Limits 70 - 130 70 - 130	
Benzene Toluene Ethylbenzene			Added 0.100 0.100 0.100	Result 0.1288 0.1150 0.1162		mg/Kg mg/Kg mg/Kg		<u>D</u>	129 115 116	Limits 70 - 130 70 - 130 70 - 130	
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	LCS LC	 S	Added 0.100 0.100 0.100 0.200	Result 0.1288 0.1150 0.1162 0.2450		mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	129 115 116 123	Limits 70 - 130 70 - 130 70 - 130 70 - 130	
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	LCS LC %Recovery Qu		Added 0.100 0.100 0.100 0.200	Result 0.1288 0.1150 0.1162 0.2450		mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	129 115 116 123	Limits 70 - 130 70 - 130 70 - 130 70 - 130	
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene			Added 0.100 0.100 0.100 0.200 0.100	Result 0.1288 0.1150 0.1162 0.2450		mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	129 115 116 123	Limits 70 - 130 70 - 130 70 - 130 70 - 130	

Lab Sample ID: LCSD 880-46469/2-A Matrix: Solid

Analysis Batch: 46483

Prep Batch: 46469 LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Benzene 0.100 0.1225 mg/Kg 122 70 - 130 5 35 Toluene 0.100 0.1101 mg/Kg 110 70 - 130 4 35 Ethylbenzene 0.100 0.1099 mg/Kg 110 70 - 130 6 35 m-Xylene & p-Xylene 0.200 0.2312 mg/Kg 116 70 - 130 6 35 o-Xylene 0.100 0.1155 mg/Kg 115 70 - 130 6 35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-24811-A-1-D MS Matrix: Solid

Prep Type: Total/NA Analysis Batch: 46483 Prep Batch: 46469 Spike MS MS %Rec Sample Sample Qualifier Added Result Qualifier Analyte Result Unit D %Rec Limits <0.00202 U 0.101 0.08001 79 Benzene 70 - 130 mg/Kg Toluene <0.00202 U 0.101 0.07885 mg/Kg 78 70 - 130 Ethylbenzene 0.0872 F1 0.101 0.1216 F1 mg/Kg 34 70 - 130 m-Xylene & p-Xylene 0.285 F1 0.202 0.3421 F1 mg/Kg 28 70 - 130 o-Xylene 0.0839 F1 0.101 0.1298 F1 mg/Kg 46 70 - 130

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Client Sample ID: Matrix Spike

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

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

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

Lab Sample ID: 880-24811-A-1-D MS

Matrix: Solid Analysis Batch: 46483

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

Lab Sample ID: 880-24811-A-1-E MSD Matrix: Solid

Analysis Batch: 46483

Analysis Batch: 46483									Prep	Batch:	46469
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00202	U	0.0996	0.08370		mg/Kg		84	70 - 130	5	35
Toluene	<0.00202	U	0.0996	0.07632		mg/Kg		76	70 - 130	3	35
Ethylbenzene	0.0872	F1	0.0996	0.1221	F1	mg/Kg		35	70 - 130	0	35
m-Xylene & p-Xylene	0.285	F1	0.199	0.3245	F1	mg/Kg		20	70 - 130	5	35
o-Xylene	0.0839	F1	0.0996	0.1229	F1	mg/Kg		39	70 - 130	5	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		70 - 130								
1,4-Difluorobenzene (Surr)	85		70 - 130								

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

								0			
Lab Sample ID: MB 880-46409/1-A Matrix: Solid								Ciler	nt Sa	mple ID: Metho Prep Type: `	
Analysis Batch: 46479										Prep Batcl	
-	MB	МВ									
Analyte	Result	Qualifier	RL		Unit		D	Prepare	əd	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/K	g	02	/15/23 1	1:56	02/16/23 19:48	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0		mg/K	g	02	/15/23 1	1:56	02/16/23 19:48	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/K	g	02	/15/23 1	1:56	02/16/23 19:48	1
	MB	МВ									
Surrogate	%Recovery	Qualifier	Limits					Prepare	ed	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02	2/15/23 1	11:56	02/16/23 19:48	1
o-Terphenyl	108		70 - 130				02	2/15/23 1	11:56	02/16/23 19:48	1
Lab Sample ID: LCS 880-46409/2-A Matrix: Solid Analysis Batch: 46479							Clie	nt Sam	nple I	D: Lab Control Prep Type: ⁻ Prep Batcl	Total/NA
			Spike		LCS					%Rec	
Analyte			Added		Qualifier	Unit	D			Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		10	04	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	113		70 - 130

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Job ID: 890-4095-1 SDG: Lea County NM

Prep Type: Total/NA

Prep Type: Total/NA

Detals 40400

Prep Batch: 46469

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Diesel Range Organics (Over

C10-C28)

1000

1061

mg/Kg

106

70 - 130

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

Lab Sample ID: LCSD 880-4	6409/3-A					Clier	nt Sam	ple ID:	Lab Contro		
Matrix: Solid										Type: To	
Analysis Batch: 46479									Prep	Batch:	4640
			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			1000	893.1		mg/Kg		89	70 - 130	16	2
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	849.0	*1	mg/Kg		85	70 - 130	22	2
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	85		70 _ 130								
o-Terphenyl	99		70 _ 130								
Lab Sample ID: 880-24624-A	-7-D MS							Client	Sample ID	: Matrix	Spik
Matrix: Solid									Prep 1	Type: To	tal/N
Analysis Batch: 46479									Prep	Batch:	4640
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U	1000	1023		mg/Kg		98	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U *1	1000	940.4		mg/Kg		92	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	85		70 _ 130								
o-Terphenyl	91		70 - 130								
Lab Sample ID: 880-24624-A	-7-E MSD					CI	ient Sa	imple IC): Matrix Sp		
Matrix: Solid										Type: To	
Analysis Batch: 46479									Prep	Batch:	4640
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics	<49.9	U	1000	1044		mg/Kg	_	100	70 - 130	2	2
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U *1	1000	1103		mg/Kg		109	70 - 130	16	2
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	99		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46459/1-A Matrix: Solid Analysis Batch: 46551					Client Sa	ample ID: Metho Prep Type:		
	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/16/23 21:05	1

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Client: Ensolum

Job ID: 890-4095-1 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

	50/0 4						0	•			
Lab Sample ID: LCS 880-464 Matrix: Solid	59/2-A						Client	Sample	D: Lab C		
Analysis Batch: 46551									Frep	Type: S	oluble
Analysis Batch. 40551			Spike	201	LCS				%Rec		
Analyte			Added	Result		Unit	D	%Rec	Limits		
Chloride			250	238.5	Quanner	mg/Kg		95	90 - 110		
			200	200.0		ing/itg		00	00-110		
Lab Sample ID: LCSD 880-46	459/3-A					Clier	nt Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid								· · · ·		Type: S	
Analysis Batch: 46551											
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	261.8		mg/Kg		105	90 - 110	9	20
_											
Lab Sample ID: 890-4094-A-1	I-E MS							Client	Sample ID		
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 46551											
		Sample	Spike		MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	<u>D</u>	%Rec	Limits		
Chloride	11.1		251	262.5		mg/Kg		100	90 - 110		
- Lab Sample ID: 890-4094-A-1						CI	iont S	ample IF	D: Matrix S	oiko Dur	licato
Matrix: Solid						01				Type: S	
Analysis Batch: 46551									Thep	Type. O	orubic
Analysis Daton. 40001	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added	Result		Unit	D	%Rec	Limits	RPD	Limit
Chloride	11.1		251	267.7		mg/Kg		102	90 - 110	2	20
_			201	201.1				.02	00-110	-	20

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QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

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Job ID: 890-4095-1 SDG: Lea County NM

GC VOA

Prep Batch: 46300

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-46300/5-A	Method Blank	Total/NA	Solid	5035	
Prep Batch: 46330					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4095-1	SS01	Total/NA	Solid	5035	
890-4095-2	SS02	Total/NA	Solid	5035	
890-4095-3	SS03	Total/NA	Solid	5035	
MB 880-46330/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46330/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46330/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4105-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-4105-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46358

090-4095-5	3303	TOLAI/INA	Solid	5055		
MB 880-46330/5-A	Method Blank	Total/NA	Solid	5035		8
LCS 880-46330/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-46330/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		9
890-4105-A-1-A MS	Matrix Spike	Total/NA	Solid	5035		
890-4105-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		
Analysis Batch: 46358						
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-4095-1	SS01	Total/NA	Solid	8021B	46330	
890-4095-2	SS02	Total/NA	Solid	8021B	46330	
890-4095-3	SS03	Total/NA	Solid	8021B	46330	12
MB 880-46300/5-A	Method Blank	Total/NA	Solid	8021B	46300	15
MB 880-46330/5-A	Method Blank	Total/NA	Solid	8021B	46330	
LCS 880-46330/1-A	Lab Control Sample	Total/NA	Solid	8021B	46330	
LCSD 880-46330/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46330	
890-4105-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	46330	
890-4105-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46330	

Prep Batch: 46469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4095-2	SS02	Total/NA	Solid	5035	
MB 880-46469/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46469/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46469/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24811-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-24811-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4095-2	SS02	Total/NA	Solid	8021B	46469
MB 880-46469/5-A	Method Blank	Total/NA	Solid	8021B	46469
LCS 880-46469/1-A	Lab Control Sample	Total/NA	Solid	8021B	46469
LCSD 880-46469/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46469
880-24811-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	46469
880-24811-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46469

Analysis Batch: 46506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4095-1	SS01	Total/NA	Solid	Total BTEX	
890-4095-2	SS02	Total/NA	Solid	Total BTEX	
890-4095-3	SS03	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester Page 53 of 223

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Job ID: 890-4095-1 SDG: Lea County NM

GC Semi VOA

Prep Batch: 46409

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4095-1	SS01	Total/NA	Solid	8015NM Prep	
890-4095-2	SS02	Total/NA	Solid	8015NM Prep	
890-4095-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-46409/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46409/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24624-A-7-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24624-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46479

880-24624-A-7-D MS	Matrix Spike	Iotal/NA	Solid	8015NM Prep		
880-24624-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep		8
Analysis Batch: 46479						9
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-4095-1	SS01	Total/NA	Solid	8015B NM	46409	
890-4095-2	SS02	Total/NA	Solid	8015B NM	46409	
890-4095-3	SS03	Total/NA	Solid	8015B NM	46409	
MB 880-46409/1-A	Method Blank	Total/NA	Solid	8015B NM	46409	
LCS 880-46409/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46409	
LCSD 880-46409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46409	
880-24624-A-7-D MS	Matrix Spike	Total/NA	Solid	8015B NM	46409	4.0
880-24624-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46409	13
- Analysia Potoby 46674						
Analysis Batch: 46671						

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
890-4095-1	SS01	Total/NA	Solid	8015 NM	
890-4095-2	SS02	Total/NA	Solid	8015 NM	
890-4095-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4095-1	SS01	Soluble	Solid	DI Leach	
890-4095-2	SS02	Soluble	Solid	DI Leach	
890-4095-3	SS03	Soluble	Solid	DI Leach	
MB 880-46459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4094-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 46551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4095-1	SS01	Soluble	Solid	300.0	46459
890-4095-2	SS02	Soluble	Solid	300.0	46459
890-4095-3	SS03	Soluble	Solid	300.0	46459
MB 880-46459/1-A	Method Blank	Soluble	Solid	300.0	46459
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	300.0	46459
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46459
890-4094-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	46459
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	46459

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Job ID: 890-4095-1 SDG: Lea County NM

Lab Sample ID: 890-4095-1 Matrix: Solid

Lab Sample ID: 890-4095-2

Lab Sample ID: 890-4095-3

Matrix: Solid

Matrix: Solid

Client Sample ID: SS01 Date Collected: 02/08/23 11:30 Date Received: 02/13/23 15:02

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	46330	02/14/23 14:50	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	46358	02/16/23 04:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46506	02/16/23 09:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46671	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	46479	02/17/23 04:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		10			46551	02/16/23 21:34	СН	EET MID

Client Sample ID: SS02

Date Collected: 02/08/23 11:35

Date Received: 02/13/23 15:02

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46330	02/14/23 14:50	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	46358	02/16/23 05:02	MNR	EET MID
Total/NA	Prep	5035			5.05 g	5 mL	46469	02/15/23 16:11	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	46483	02/16/23 19:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46506	02/16/23 09:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46671	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	46479	02/17/23 04:44	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		10			46551	02/16/23 21:38	СН	EET MID

Client Sample ID: SS03 Date Collected: 02/08/23 11:40 Date Received: 02/13/23 15:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46330	02/14/23 14:50	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	46358	02/16/23 05:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46506	02/16/23 09:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46671	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	46479	02/17/23 05:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		10			46551	02/16/23 21:43	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

10

Job ID: 890-4095-1 SDG: Lea County NM

Laboratory: Eurofins Midland

Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

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

uthority	Pr	rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for v
the agency does not o	fer certification.			
the agency does not o Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

Eurofins Carlsbad

Client: Ensolum

Job ID: 890-4095-1 SDG: Lea County NM

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 2/21/2024 9:22:18 AM

Job ID: 890-4095-1 SDG: Lea County NM

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4095-1	SS01	Solid	02/08/23 11:30	02/13/23 15:02	0.5
890-4095-2	SS02	Solid	02/08/23 11:35	02/13/23 15:02	0.5
890-4095-3	SS03	Solid	02/08/23 11:40	02/13/23 15:02	0.5

	Xenco	00		EL Pasc Hobbs,	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	bbock, TX (806) 794-1 sbad, NM (575) 988-3	296	X	ww yenco com	Page (of
				Dill to: (if different)	Kalei Jennings				Work Order Comments	
Company Name: En	Ensolum, LLC			Company Name:	Ensolum, LLC		Pr	ogram: UST/PST	Program: UST/PST PRP Brownfields RRC	elds RRC Superfund
	601 N Marienfeld St Suite 400	St Suite 400		Address:	601 N Marienfeld St Suite 400	St Suite 400	St	State of Project:	I]
le ZIP:	Midland, TX 79701	1 I		City, State ZIP:	Midland, TX 79701	01	Re	porting: Level II	Reporting: Level II Clevel III PST/UST TRRP	
	817-683-2503		Ema	I: kjennings@ens	Email: kjennings@ensolum.com, dnikanorov@ensolum.com	ov@ensolum.com		Deliverables: EDD	ADaPT	Other:
Name:	EVGSAU Sat 6 Mobile Tester	Mobile Test		Turn Around		ANA	ANALYSIS REQUEST	ST		Preservative Codes
ar.	03D20	03D2057072	Rot	Rush	Code				z	None: NO DI Water: H ₂ O
Project Location:	Lea Cou	Lea County, NM	Due Date:						0	0
Sampler's Name:	Dmitry N	Dmitry Nikanorov	TAT starts	TAT starts the day received by					I	
PO#			the lab, if r	eceived by 4:30pm	ers		-	-	н	H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	nk: tes No	No Wet Ice:	CTES NO	nete 0)				H	H ₃ PO ₄ : HP
Samples Received Intact:			Thermometer ID:	TAN COT					Z	NaHSO4: NABIS
Cooler Custody Seals:	Ye	MA Correctio	Correction Factor:	-0.J					Z	Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	No	N/A Tempera	Temperature Reading:	25.9	_		IN IN IN IN IN IN IN IN IN		Zı	Zn Acetate+NaOH: Zn
Total Containers:		Correcte	Corrected Temperature:	121	015)	090	090-4090 0101111		-	NAOH+ASCUIDIC ACIU. SAF O
Sample Identification		Matrix Date Sampled	e Time led Sampled	Depth Grab/ Comp	CHLOF CHLOF TPH (8 BTEX					Sample Comments
SS01	S	2/8/2023	2023 11:30	0.5' Grab	1 × × ×					
SS02	S	2/8/2023	2023 11:35	0.5' Grab	1 x x x					
SS03	S		2023 11:40	0.5' Grab	1 × × ×					Incident Number
	The second secon									
		_								
Total 200.7 / 6010	200.8 / 6020:	ö	BRCRA 13F	13PPM Texas 11 /		Cd Ca Cr Co		X	Se Ag SiO ₂ Na	Sr TI Sn U V Zn 45 1 / 7470 / 7471
Circle Method(s) and Metal(s) to be analyzed	Metal(s) to be	analyzed	ICLP / 2	TCLP / SPLP 6010: 8RCRA	KA SD AS BA BE			NO IN GE AG IL O	nd conditions	nditions
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conductors of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotia	ument and relinquis rill be liable only for Im charge of \$85.00	nment of samples the cost of sample will be applied to a	constitutes a valid p es and shall not assu each project and a c	urchase order from clie ume any responsibility find the second se	client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and condutions by for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	nco, its affiliates and su incurred by the client if Xenco, but not analyze	ubcontractors. It ass such losses are due ed. These terms will t	igns standard terms a to circumstances bey be enforced unless pre	nd conditions ond the control viously negotiated.	
Relinquished by: (Signature)	Signature)	Rec	Received by: (Signature)	ature)	Date/Time	Relinquished	Relinquished by: (Signature)		Received by: (Signature)) Date/Time
1 Davan	R A	herec	and s	tit	2.13.23 is	60				
.				1		4		+		

2/20/2023

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13

Chain of Custody

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4095 List Number: 1 Creator: Clifton, Cloe

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

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Job Number: 890-4095-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Received by OCD: 1/2/2024 1:15:12 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/20/2023 2:43:12 PM

JOB DESCRIPTION

EVGSAU Sat 6 Mobile Tester SDG NUMBER Lea County NM

JOB NUMBER

890-4096-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 1/2/2024 1:15:12 PM

1

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 2/20/2023 2:43:12 PM

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

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

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Definitions/Glossary

Client: Ensolum	
Project/Site: EVGSAU Sat 6 Mobile Tester	

Job ID: 890-4096-1 SDG: Lea County NM

Qualifiers		- 3
GC VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	6
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	8
Glossary		9
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	19
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	

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

NC

ND

NEG

POS

PQL

PRES QC

RER

RL RPD

TEF

TEQ

TNTC

4

5

Job ID: 890-4096-1 SDG: Lea County NM

Job ID: 890-4096-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4096-1

Receipt

The sample was received on 2/13/2023 3:02 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS04 (890-4096-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46409 and analytical batch 880-46479 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

HPLC/IC

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

Job ID: 890-4096-1 SDG: Lea County NM

Client Sample ID: SS04

Date Collected: 02/08/23 12:45 Date Received: 02/13/23 15:02

Sample Depth: 0.5

Client: Ensolum

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/17/23 08:51	02/17/23 16:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/17/23 08:51	02/17/23 16:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/17/23 08:51	02/17/23 16:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/17/23 08:51	02/17/23 16:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/17/23 08:51	02/17/23 16:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/17/23 08:51	02/17/23 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			02/17/23 08:51	02/17/23 16:58	1
1,4-Difluorobenzene (Surr)	103		70 - 130			02/17/23 08:51	02/17/23 16:58	1
Method: TAL SOP Total BTEX -	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/20/23 13:47	1
Method: SW846 8015 NM - Dies								
	el Ranue Oruan	ICS (DRO) ((GC)					
		Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH		Qualifier		Unit mg/Kg	D	Prepared	Analyzed 02/19/23 12:25	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0		<u> </u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.0 sel Range Orga	Qualifier U	RL 50.0		<u>D</u> 	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier	(GC)	mg/Kg			02/19/23 12:25	1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC)	mg/Kg Unit		Prepared	02/19/23 12:25	1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <sol> Sel Range Orga Result <sol> <sol> <sol></sol> </sol></sol></sol>	Qualifier U nics (DRO) Qualifier U U *1	(GC) <u>RL</u> 50.0	mg/Kg Unit mg/Kg		Prepared 02/15/23 11:56	02/19/23 12:25 Analyzed 02/17/23 04:00	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U *1 U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/15/23 11:56 02/15/23 11:56	02/19/23 12:25 Analyzed 02/17/23 04:00 02/17/23 04:00	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U *1 U	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/15/23 11:56 02/15/23 11:56 02/15/23 11:56	02/19/23 12:25 Analyzed 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00	1 Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U nics (DRO) Qualifier U U *1 U	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/15/23 11:56 02/15/23 11:56 02/15/23 11:56 Prepared	02/19/23 12:25 Analyzed 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00 Analyzed	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U nics (DRO) Qualifier U U *1 U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 50.0 70.130 70.130 70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/15/23 11:56 02/15/23 11:56 02/15/23 11:56 Prepared 02/15/23 11:56	O2/19/23 12:25 Analyzed 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00	1 Dil Fac 1 1 1 <i>Dil Fac</i> 1
Analyte	Result <50.0	Qualifier U nics (DRO) Qualifier U U *1 U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 50.0 70.130 70.130 70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/15/23 11:56 02/15/23 11:56 02/15/23 11:56 Prepared 02/15/23 11:56	O2/19/23 12:25 Analyzed 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1

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Lab Sample ID: 890-4096-1 Matrix: Solid

Job ID: 890-4096-1 SDG: Lea County NM

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID 880-24598-A-1-F MS	Client Sample ID Matrix Spike	(70-130) 	(70-130) 98	·	
880-24598-A-1-G MSD	Matrix Spike Duplicate	97	98		
890-4096-1	SS04	122	103		
LCS 880-46575/1-A	Lab Control Sample	100	97		
LCSD 880-46575/2-A	Lab Control Sample Dup	107	93		
MB 880-46575/5-A	Method Blank	98	91		
Surrogate Legend					
BFB = 4-Bromofluorober	nzene (Surr)				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24624-A-7-D MS	Matrix Spike	85	91	
880-24624-A-7-E MSD	Matrix Spike Duplicate	99	107	
890-4096-1	SS04	93	104	
LCS 880-46409/2-A	Lab Control Sample	98	113	
LCSD 880-46409/3-A	Lab Control Sample Dup	85	99	
MB 880-46409/1-A	Method Blank	85	108	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Lab Sample ID: MB 880-46575/5-A

QC Sample Results

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 46569							Prep Type: 1 Prep Batch	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		02/17/23 08:51	02/17/23 15:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/17/23 08:51	02/17/23 15:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/17/23 08:51	02/17/23 15:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/17/23 08:51	02/17/23 15:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/17/23 08:51	02/17/23 15:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/17/23 08:51	02/17/23 15:36	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			02/17/23 08:51	02/17/23 15:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130			02/17/23 08:51	02/17/23 15:36	1

Lab Sample ID: LCS 880-46575/1-A Matrix: Solid

Analysis Batch: 46569

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09721		mg/Kg		97	70 - 130	
Toluene	0.100	0.1009		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.09383		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1812		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.09381		mg/Kg		94	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-46575/2-A

Matrix: Solid

Analysis Batch: 46569							Prep	Batch:	46575
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1111		mg/Kg		111	70 - 130	13	35
Toluene	0.100	0.1198		mg/Kg		120	70 - 130	17	35
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.2200		mg/Kg		110	70 - 130	19	35
o-Xylene	0.100	0.1124		mg/Kg		112	70 - 130	18	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-24598-A-1-F MS

Matrix: Solid

Analysis Batch: 46569									Prep	Batch: 46575
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.09359		mg/Kg		92	70 - 130	
Toluene	<0.00201	U	0.101	0.09616		mg/Kg		95	70 - 130	

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 46575

Released to Imaging: 2/21/2024 9:22:18 AM

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester Job ID: 890-4096-1 SDG: Lea County NM

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

Lab Sample ID: 880-24598-A-1	-F MS								Client S	Sample ID: Matr	
Matrix: Solid										Prep Type:	fotal/N/
Analysis Batch: 46569										Prep Batc	n: 4657
	Sample	Sam	ple	Spike	MS	MS				%Rec	
Analyte	Result	Qua	lifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U		0.101	0.08569		mg/Kg		85	70 - 130	_
m-Xylene & p-Xylene	< 0.00402	U		0.202	0.1646		mg/Kg		82	70 - 130	
o-Xylene	<0.00201	U		0.101	0.08652		mg/Kg		85	70 - 130	
	MS	мs									
Surrogate	%Recovery	Qua	lifier	Limits							
4-Bromofluorobenzene (Surr)	96			70 - 130							
1,4-Difluorobenzene (Surr)	98			70 - 130							
_ab Sample ID: 880-24598-A-1	-G MSD							Client	Sample ID:	Matrix Spike D	uplicat
Matrix: Solid										Prep Type:	
Analysis Batch: 46569										Prep Batcl	
	Sample	Sam	ple	Spike	MSD	MSD				%Rec	RP
Analyte	Result		•	Added	Result	Qualifier	Unit	D) %Rec	Limits RPI	
Benzene	<0.00201	U		0.0996	0.1038		mg/Kg		103	70 - 130 1	0 3
Foluene	<0.00201	U		0.0996	0.1047		mg/Kg		105	70 - 130	9 3
Ethylbenzene	<0.00201	U		0.0996	0.09296		mg/Kg		93	70 - 130	3 3
n-Xylene & p-Xylene	<0.00402	U		0.199	0.1791		mg/Kg		90	70 - 130	3 3
p-Xylene	<0.00201			0.0996	0.09331		mg/Kg		93		3 3
	MSD	MSD)								
Surrogate	%Recovery	Qua	lifier	Limits							
4-Bromofluorobenzene (Surr)	97			70 - 130							
1,4-Difluorobenzene (Surr)	98			70_130							
ethod: 8015B NM - Diese	I Range Oi	rgar	nics (DR	O) (GC)							
Lab Sample ID: MB 880-46409/	1-A								Client Sa	ample ID: Metho	
Matrix: Solid										Prep Type:	
Analysis Batch: 46479										Prep Batc	1: 4640
		MD	MB								
-									Prepared	Analyzed	Dil Fa
Analyte		esult	Qualifier	RI		Unit		D			
Analyte Gasoline Range Organics			Qualifier	RI 50.0		Unit mg/K	g		2/15/23 11:56	02/16/23 19:48	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		esult	Qualifier U)		-	02			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<	esult <50.0	Qualifier U U	50.0)	mg/K	g	- 02 02	2/15/23 11:56	02/16/23 19:48	
Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<	esult 50.0 50.0 50.0	Qualifier U U	50.0)	mg/K	g	- 02 02	2/15/23 11:56 2/15/23 11:56	02/16/23 19:48 02/16/23 19:48	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	<	esult 50.0 50.0 50.0 50.0 MB	Qualifier U U U	50.0)	mg/K	g	- 02 02	2/15/23 11:56 2/15/23 11:56	02/16/23 19:48 02/16/23 19:48	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<	esult 50.0 50.0 50.0 50.0 MB	Qualifier U U MB	50.0 50.0)	mg/K	g		2/15/23 11:56 2/15/23 11:56 2/15/23 11:56	02/16/23 19:48 02/16/23 19:48 02/16/23 19:48	

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

Analysis Batch: 46479 Prep Batch: 46409 %Rec Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1045 104 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1061 mg/Kg 106 70 - 130 C10-C28)

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Lab Sample ID: LCS 880-46409/2-A

Matrix: Solid

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

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

Lab Sample ID: LCS 880-46	409/2-A						Client	Sample	ID: Lab Co		
Matrix: Solid										Type: To	
Analysis Batch: 46479									Prep	Batch:	4040
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	113		70 - 130								
Lab Sample ID: LCSD 880-4	6409/3-A					Clier	it Sam	ple ID: I	Lab Contro	I Sampl	e Du
Matrix: Solid									Prep 1	Type: To	al/N
Analysis Batch: 46479										Batch:	
-			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			1000	893.1		mg/Kg		89	70 - 130	16	2
(GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)			1000	849.0	*1	mg/Kg		85	70 - 130	22	2
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	99		70 - 130								
Analysis Batch: 46479 Analyte	-	Sample Qualifier	Spike Added		MS Qualifier	Unit	D	%Rec	%Rec Limits	Batch:	+040
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1023		mg/Kg		98	70 - 130		
Diesel Range Organics (Over	<49.9	U *1	1000	940.4		mg/Kg		92	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	91		70 - 130								
										niko Dun	licat
Lab Sample ID: 880-24624-/	A-7-E MSD					Cli	ent Sa	ample ID): Matrix Sp	JINC Dup	
the second s	A-7-E MSD					Cli	ent Sa	ample ID		Type: To	al/N
Matrix: Solid	A-7-E MSD					Cli	ent Sa	ample ID	Prep 1		
Matrix: Solid		Sample	Spike	MSD	MSD	Cli	ent Sa	ample ID	Prep 1	Type: To	4640
Matrix: Solid Analysis Batch: 46479	Sample	Sample Qualifier	Spike Added		MSD Qualifier	Cli Unit	ent Sa D	ample ID %Rec	Prep T Prep	Type: To	4640 RP
Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics	Sample	Qualifier	-						Prep T Prep %Rec	Satch:	4640 RP Lim
Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Sample Result	Qualifier U	Added	Result		Unit		%Rec	Prep 1 Prep %Rec Limits	Batch:	4640 RP Lim
Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Sample 	Qualifier U	Added	Result 1044		- <mark>Unit</mark> mg/Kg		%Rec	Prep 7 Prep %Rec Limits 70 - 130	Type: Tot Batch: RPD 2	4640 RP Lim 2
Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Sample 	Qualifier U U *1 MSD	Added	Result 1044		- <mark>Unit</mark> mg/Kg		%Rec	Prep 7 Prep %Rec Limits 70 - 130	Type: Tot Batch: RPD 2	
Lab Sample ID: 880-24624-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	Sample <u>Result</u> <49.9 <49.9 <i>MSD</i>	Qualifier U U *1 MSD	Added	Result 1044		- <mark>Unit</mark> mg/Kg		%Rec	Prep 7 Prep %Rec Limits 70 - 130	Type: Tot Batch: RPD 2	4640 RP Lim 2

Client: Ensolum

QC Sample Results

Job ID: 890-4096-1 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46459/1-A Matrix: Solid											Client S	ample ID:	Method Type: S	
Analysis Batch: 46551												Fieb	Type. 5	olubie
Analysis Baton. 40001		мв	мв											
Analyte	R	esult	Qualifier		RL		Unit		D	Pi	repared	Analyz	ed	Dil Fac
Chloride	<	\$.00	U		5.00		mg/ł	٢g			•	02/16/23		1
Lab Sample ID: LCS 880-46459/2-A									CI	ient	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid													Type: S	
Analysis Batch: 46551														
-				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		238.5		mg/Kg		_	95	90 - 110		
Lab Sample ID: LCSD 880-46459/3	-A							CI	ient S	Sam	ple ID: I	_ab Contro	ol Sampl	le Dur
Matrix: Solid													Type: S	
Analysis Batch: 46551														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		261.8		mg/Kg			105	90 - 110	9	20
Lab Sample ID: 890-4094-A-1-E MS	5										Client	Sample ID	: Matrix	Spike
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 46551														
	Sample	Samp	ple	Spike		MS	MS					%Rec		
Analyte	Result	Quali	ifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	11.1			251		262.5		mg/Kg			100	90 _ 110		
Lab Sample ID: 890-4094-A-1-F MS	D								Clien	it Sa	mple ID	: Matrix Sp	oike Dup	plicate
Matrix: Solid											-		Type: S	
Analysis Batch: 46551														
	Sample	Samp	ple	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Quali	ifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
										_				

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QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Job ID: 890-4096-1 SDG: Lea County NM

GC VOA

Analysis Batch: 46569

nalysis Batch: 46569					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4096-1	SS04	Total/NA	Solid	8021B	46575
MB 880-46575/5-A	Method Blank	Total/NA	Solid	8021B	46575
LCS 880-46575/1-A	Lab Control Sample	Total/NA	Solid	8021B	46575
LCSD 880-46575/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46575
880-24598-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	46575
880-24598-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46575
rep Batch: 46575					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4096-1	SS04	Total/NA	Solid	5035	
MB 880-46575/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46575/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46575/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24598-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-24598-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 46725					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
		Total/NA	Solid	Total BTEX	

Prep Batch: 46409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4096-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-46409/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46409/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24624-A-7-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24624-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4096-1	SS04	Total/NA	Solid	8015B NM	46409
MB 880-46409/1-A	Method Blank	Total/NA	Solid	8015B NM	46409
LCS 880-46409/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46409
LCSD 880-46409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46409
880-24624-A-7-D MS	Matrix Spike	Total/NA	Solid	8015B NM	46409
880-24624-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46409
Analysis Batch: 46670					
_ Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

890-4096-1

HPLC/IC

Leach Batch: 46459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4096-1	SS04	Soluble	Solid	DI Leach	
MB 880-46459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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SS04

QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

HPLC/IC (Continued)

Leach Batch: 46459 (Continued)

Lab Sample ID 890-4094-A-1-E MS	Client Sample ID Matrix Spike	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch	
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		
Analysis Batch: 46551						

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4096-1	SS04	Soluble	Solid	300.0	46459
MB 880-46459/1-A	Method Blank	Soluble	Solid	300.0	46459
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	300.0	46459
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46459
890-4094-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	46459
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	46459

Job ID: 890-4096-1 SDG: Lea County NM

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Job ID: 890-4096-1 SDG: Lea County NM

Lab Sample ID: 890-4096-1 Matrix: Solid

Client Sample ID: SS04 Date Collected: 02/08/23 12:45 Date Received: 02/13/23 15:02

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46575	02/17/23 08:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46569	02/17/23 16:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46725	02/20/23 13:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46670	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46479	02/17/23 04:00	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		1			46551	02/16/23 21:48	СН	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

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Job ID: 890-4096-1 SDG: Lea County NM

Laboratory: Eurofins Midland

Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

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

uthority		rogram	Identification Number	Expiration Date
kas	NELAP		T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.			
the agency does not o Analysis Method	fer certification. Prep Method	Matrix	Analyte	
6 ,		Matrix Solid	Analyte Total TPH	

Eurofins Carlsbad

Client: Ensolum

Job ID: 890-4096-1 SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Protocol Refe	rences:		
ASTM = A	STM International		
FPA = US	Environmental Protection Agency		

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Job ID: 890-4096-1 SDG: Lea County NM

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4096-1	SS04	Solid	02/08/23 12:45	02/13/23 15:02	0.5	4
						5
						8
						9
						12
						13

Kalei Jennings
Company Name: Ensolum, LLC Company Name:
Address: 601 N Marienfeld St Suite 400 Address:
City, State ZIP: Midland, TX 79701 City, State ZIP
Phone: 817-683-2503 Email: kjennings@ensolum.com, dnikanorov@ensolum.com
Project Name: EVGSAU Sat 6 Mobile Tester Turn Around
Sampler's Name: Dmitry Nikanorov TAT starts the day reco
SAMPLE RECEIPT Temp Blank: Res No Wet Ice: Tes
Thermometer ID:
Yes No (AVA Correction Factor
: Yes No WA Temperature Reading:
Sampled
C.0 C+.71 C2021012 C
2
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contro
of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiation of the second se
Relinquished by: (Signature) Received by: (Signature)
DNing Anarly Sta

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12 13

Chain of Custody

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4096 List Number: 1 Creator: Clifton, Cloe

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

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Job Number: 890-4096-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

14

Job Number: 890-4096-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 02/15/23 12:16 PM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4096 List Number: 2 Creator: Rodriguez, Leticia

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

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

Received by OCD: 1/2/2024 1:15:12 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/19/2023 12:47:40 PM

JOB DESCRIPTION

EVGSAU Sat 6 Mobile Tester SDG NUMBER Lea County NM

JOB NUMBER

890-4094-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 1/2/2024 1:15:12 PM

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Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 2/19/2023 12:47:40 PM

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

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

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	Definitions/Glossary	
Client: Ensolun	-	-1
	EVGSAU Sat 6 Mobile Tester SDG: Lea County NM	
Qualifiers		ĪĪ
GC VOA		- !
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	Ξ,
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA	۸	
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	-
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
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)	

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Presumptive

Quality Control

Negative / Absent Positive / Present

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

LOD

LOQ

MCL MDA

MDC

MDL

MPN

MQL

NC

ND NEG

POS PQL

PRES

QC

RER RL

RPD

TEF

TEQ TNTC

ML

4

Job ID: 890-4094-1 SDG: Lea County NM

Job ID: 890-4094-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4094-1

Receipt

The sample was received on 2/13/2023 3:02 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS05 (890-4094-1).

GC VOA

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-46437 and analytical batch 880-46371. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS05 (890-4094-1) and (880-24648-A-1-C MSD). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46409 and analytical batch 880-46479 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

HPLC/IC

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

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5

Client Sample ID: SS05

Date Collected: 02/08/23 12:50 Date Received: 02/13/23 15:02

Sample Depth: 0.5

Client: Ensolum

Chloride

-	
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		02/15/23 14:46	02/16/23 06:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/15/23 14:46	02/16/23 06:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/15/23 14:46	02/16/23 06:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/15/23 14:46	02/16/23 06:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/15/23 14:46	02/16/23 06:34	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/15/23 14:46	02/16/23 06:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130			02/15/23 14:46	02/16/23 06:34	1
1,4-Difluorobenzene (Surr)	86		70 - 130			02/15/23 14:46	02/16/23 06:34	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			0.00401	malka			02/16/23 10:01	1
	<0.00401			mg/Kg			02,10,20 10.01	
Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (Qualifier	GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9	ics (DRO) (Qualifier U	GC) RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.9 sel Range Orga	ics (DRO) (Qualifier U	GC) RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Orga	ics (DRO) (Qualifier U mics (DRO) Qualifier	GC) <u>RL</u> 49.9 (GC)	Unit mg/Kg			Analyzed 02/19/23 12:25	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9 sel Range Orga Result	ics (DRO) (Qualifier U enics (DRO) Qualifier U	GC) 	Unit mg/Kg Unit		Prepared	Analyzed 02/19/23 12:25 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.9 sel Range Orga Result <49.9	ics (DRO) (Qualifier U enics (DRO) Qualifier U U *1	GC) <u>RL</u> 49.9 (GC) <u>RL</u> 49.9	Unit mg/Kg Unit mg/Kg		Prepared 02/15/23 11:56	Analyzed 02/19/23 12:25 Analyzed 02/17/23 03:37	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	ics (DRO) (Qualifier U mics (DRO) Qualifier U U *1 U	GC) <u>RL</u> 49.9 (GC) <u>RL</u> 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/15/23 11:56 02/15/23 11:56	Analyzed 02/19/23 12:25 Analyzed 02/17/23 03:37 02/17/23 03:37	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	ics (DRO) (Qualifier U mics (DRO) Qualifier U U *1 U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/15/23 11:56 02/15/23 11:56 02/15/23 11:56	Analyzed 02/19/23 12:25 Analyzed 02/17/23 03:37 02/17/23 03:37	1 Dil Fac 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9	ics (DRO) (Qualifier U mics (DRO) Qualifier U U *1 U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/15/23 11:56 02/15/23 11:56 02/15/23 11:56 Prepared	Analyzed 02/19/23 12:25 Analyzed 02/17/23 03:37 02/17/23 03:37 02/17/23 03:37	1 Dil Fac 1 1 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.9 Sel Range Orga Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <91 98 	ics (DRO) (Qualifier U Qualifier U U *1 U Qualifier	GC) <u>RL</u> 49.9 (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/15/23 11:56 02/15/23 11:56 02/15/23 11:56 Prepared 02/15/23 11:56	Analyzed 02/19/23 12:25 Analyzed 02/17/23 03:37 02/17/23 03:37 02/17/23 03:37 Analyzed 02/17/23 03:37	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1

5.02

mg/Kg

11.1

2/19/2023

Eurofins Carlsbad

02/16/23 21:19

1

Job ID: 890-4094-1 SDG: Lea County NM

Lab Sample ID: 890-4094-1 Matrix: Solid

Job ID: 890-4094-1

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

_				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID 880-24332-A-1 MB	Client Sample ID Method Blank	(70-130) 	(70-130) 86	·
880-24648-A-1-B MS	Matrix Spike	00 104	80 94	
880-24648-A-1-C MSD	Matrix Spike Duplicate	66 S1-	85	
890-4094-1	SS05	68 S1-	86	
LCS 880-46437/1-A	Lab Control Sample	100	95	
LCSD 880-46437/2-A	Lab Control Sample Dup	111	95	
MB 880-46437/5-A	Method Blank	98	88	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ample ID	Client Sample ID	(70-130)	(70-130)	
4-A-7-D MS	Matrix Spike	85	91	
24-A-7-E MSD	Matrix Spike Duplicate	99	107	
l-1	SS05	91	98	
6409/2-A	Lab Control Sample	98	113	
30-46409/3-A	Lab Control Sample Dup	85	99	
0-46409/1-A	Method Blank	85	108	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

SDG: Lea County NM

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Lab Sample ID: 880-24332-A-1 MB

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 46371

MB MB

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

%Recovery

MB MB

88

86

Qualifier

Result Qualifier

			Job ID: 890 SDG: Lea Co		2
					3
		Client Sa	ample ID: Metho Prep Type: ⁻		4
					5
Unit	D	Prepared	Analyzed	Dil Fac	
mg/Kg			02/15/23 18:50	1	6

Dil Fac	
1	
1	-
1	7
1	_
1	8
1	
	9
Dil Fac	
1	
1	
Blank	
tal/NA	

Client Sample ID: Method Blan Prep Type: Total/NA

Client Sample ID: Lab Control Sample

%Rec

Prep Type: Total/NA Prep Batch: 46437

02/15/23 18:50

02/15/23 18:50

02/15/23 18:50

02/15/23 18:50

02/15/23 18:50

Analyzed

02/15/23 18:50

02/15/23 18:50

Prepared

Prep Batch: 46437

Lab Sample ID: MB 880-46437/5-A
Matrix: Solid
Analysis Batch: 46371

-	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/15/23 14:46	02/16/23 02:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/15/23 14:46	02/16/23 02:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/15/23 14:46	02/16/23 02:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/15/23 14:46	02/16/23 02:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/15/23 14:46	02/16/23 02:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/15/23 14:46	02/16/23 02:15	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			02/15/23 14:46	02/16/23 02:15	1
1,4-Difluorobenzene (Surr)	88		70 - 130			02/15/23 14:46	02/16/23 02:15	1

Lab Sample ID: LCS 880-46437/1-A

Matrix: Solid	
Analysis Batch: 46371	
	Spike
Analyte	Added

Analyte	Added	Result	Qualifier Unit	D %Rec	Limits	
Benzene	0.100	0.09855	mg/K	g 99	70 - 130	
Toluene	0.100	0.1014	mg/K	g 101	70 - 130	
Ethylbenzene	0.100	0.09828	mg/K	g 98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1950	mg/K	g 97	70 - 130	
o-Xylene	0.100	0.09407	mg/K	g 94	70 - 130	

LCS LCS

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-46437/2-A Matrix: Solid Analysis Batch: 46371				Clier	nt Sam	ple ID:		I Sampl Type: To Batch:	tal/NA
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09235		mg/Kg		92	70 - 130	6	35

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Released to Imaging: 2/21/2024 9:22:18 AM

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester Job ID: 890-4094-1 SDG: Lea County NM

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

Lab Sample ID: LCSD 880-4	6437/2-A					Clie	nt Sam	nple ID: I	Lab Contro	I Sampl	e Dup
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 46371									Prep	Batch:	46437
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene			0.100	0.08620		mg/Kg		86	70 - 130	16	35
Ethylbenzene			0.100	0.09424		mg/Kg		94	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1877		mg/Kg		94	70 - 130	4	35
o-Xylene			0.100	0.09030		mg/Kg		90	70 - 130	4	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	111		70 - 130								
1,4-Difluorobenzene (Surr)	95		70 - 130								
_ Lab Sample ID: 880-24648-/	A-1-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										ype: To	
Analysis Batch: 46371										Batch:	
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1	0.100	0.08816		mg/Kg		88	70 - 130	
Toluene	<0.00199	U F1	0.100	0.09260		mg/Kg		92	70 - 130	
Ethylbenzene	<0.00199	U F1	0.100	0.09146		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1811		mg/Kg		90	70 - 130	
o-Xylene	<0.00199	U F1	0.100	0.08751		mg/Kg		87	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-24648-A-1-C MSD Matrix: Solid

Analy	/sis	Batch:	46371
		Batom	

1,4-Difluorobenzene (Surr)

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	<0.00403	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130								

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

85

Lab Sample ID: MB 880-46409/1-A Matrix: Solid Analysis Batch: 46479						Client Sa	mple ID: Metho Prep Type: ⁻ Prep Batcl	Total/NA
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/15/23 11:56	02/16/23 19:48	1
(GRO)-C6-C10								

70 - 130

Eurofins Carlsbad

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 46437

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Lab Sample ID: MB 880-46409/1-A

Matrix: Solid

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Analysis Batch: 46479

Gasoline Range Organics (GRO)-C6-C10

Diesel Range Organics (Over

Analysis Batch: 46479

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Lab Sample ID: LCS 880-46409/2-A

Method: 8015B NM - Diesel Range Organ

	-•									40044	
e Tester									Job ID: 890 SDG: Lea Co		2
Range Org	anics (DF	RO) (GC) (Co	ntinue	ed)							3
-A								Client S	ample ID: Metho	d Blank	
<u>^</u>								onone o	Prep Type: 1		Δ
									Prep Batch		
N	IB MB										5
Resi	ult Qualifier	RL		Unit		D	P	repared	Analyzed	Dil Fac	
<50	0.0 U	50.0		mg/K	g		02/1	5/23 11:56	02/16/23 19:48	1	6
<50	0.0 U	50.0		mg/K	g		02/1	5/23 11:56	02/16/23 19:48	1	7
N	IB MB										-
%Recove	ry Qualifier	Limits					P	repared	Analyzed	Dil Fac	8
	85	70 - 130					02/1	5/23 11:56	02/16/23 19:48	1	0
1	08	70 - 130					02/1	5/23 11:56	02/16/23 19:48	1	9
2-A						C	lient	Sample	ID: Lab Control	Sample	
									Prep Type: 1		10
									Prep Batch	n: 46409	
		Spike	LCS	LCS					%Rec		11
		Added		Qualifier	Unit		D	%Rec	Limits		4.0
		1000	1045		mg/Kg			104	70 - 130		12
		1000	1061		mg/Kg			106	70 - 130		13
LCS L	cs										14
%Recovery Q	ualifier	Limits									
98		70 - 130									
113		70 - 130									
9/3-A					CI	ient	Sam	ple ID: I	ab Control Sam Prep Type: 1		

Matrix: Solid	
Analysis Batch: 46479	

Lab Sample ID: LCSD 880-46409/3-A

Analysis Batch: 46479							Prep	Batch:	46409
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	893.1		mg/Kg		89	70 - 130	16	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	849.0	*1	mg/Kg		85	70 - 130	22	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-24624-A-7-D MS	
Matrix: Solid	
Analysis Patch: 46479	

Analysis Batch: 46479									Pre	p Batch: 46409	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1023		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	940.4		mg/Kg		92	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 _ 130
o-Terphenyl	91		70 - 130

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

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

Matrix: Solid	-7-E MSD						· · · ·		ID: Matrix S Pren	Туре: То	
Analysis Batch: 46479										b Batch:	
Analysis Batch. 40475	Sample	Samplo	Spiko	Men	MSD				%Rec	Datch.	RPI
Analyta	-	Qualifier	Spike Added		Qualifier	Unit	C	%Rec	Limits	RPD	Limi
Analyte Gasoline Range Organics					Quaimer		L				
(GRO)-C6-C10	<49.9	0	1000	1044		mg/Kg		100	70 - 130	2	2
Diesel Range Organics (Over	<49.9	U *1	1000	1103		mg/Kg		109	70 - 130	16	2
C10-C28)											
	MSD										
Surrogate 1-Chlorooctane	%Recovery	Qualifier	Limits								
	99 107		70 ₋ 130 70 ₋ 130								
o-Terphenyl	107		10 - 130								
lethod: 300.0 - Anions, le	on Chromat	ography									
Lab Sample ID: MB 880-4645	9/1-Δ							Client	Sample ID:	Method	Blan
Matrix: Solid										Type: S	
Analysis Batch: 46551									i ieb		5.45
analysis Batoli. 40001		MB MB									
Analyte	R	esult Qualifier		RL	Unit		D	Prepared	Analy	zed	Dil Fa
Chloride		5.00 U		5.00	mg/Kg	n		Tiopaioa	02/16/23		2
						5					
Lab Sample ID: LCS 880-464	59/2-A						Clie	nt Samp	le ID: Lab C	ontrol S	ampl
									Prep	Type: S	olubl
Matrix: Solid									Prep	Type: S	olubl
Matrix: Solid Analysis Batch: 46551			Spike	LCS	LCS				Prep %Rec	Type: S	olubl
Matrix: Solid			Spike Added		LCS Qualifier	Unit	C	%Rec	-	Type: S	olubl
Matrix: Solid Analysis Batch: 46551						Unit mg/Kg	[% Rec 95	%Rec	Type: S	olub
Matrix: Solid Analysis Batch: 46551 ^{Analyte}			Added	Result			<u>[</u>		%Rec Limits	• Type: S	olub
Matrix: Solid Analysis Batch: 46551 Analyte Chloride			Added	Result		mg/Kg		95	%Rec Limits		
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: LCSD 880-46			Added	Result		mg/Kg		95	%Rec Limits 90 - 110		e Du
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: LCSD 880-46 Matrix: Solid			Added	Result		mg/Kg		95	%Rec Limits 90 - 110	ol Sampl	e Du
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: LCSD 880-46 Matrix: Solid			Added	Result 238.5		mg/Kg		95	%Rec Limits 90 - 110	ol Sampl	e Du olubi
Matrix: Solid Analysis Batch: 46551 Analyte			Added 250	Result 238.5 LCSD	Qualifier	mg/Kg		95 mple ID	%Rec Limits 90 - 110 : Lab Contro Prep	ol Sampl	e Du olubl RP
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: LCSD 880-46 Matrix: Solid Analysis Batch: 46551 Analyte			Added 250 Spike	Result 238.5 LCSD	Qualifier	mg/Kg Cli	ent Sa	95 mple ID	%Rec Limits 90 - 110 : Lab Contro Prep %Rec	ol Sampl Type: S	e Du olubi RP Lim
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: LCSD 880-46 Matrix: Solid Analysis Batch: 46551 Analyte Chloride			Added 250 Spike Added	Result 238.5 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	95 mple ID	%Rec Limits 90 - 110 : Lab Contro Prep %Rec Limits 90 - 110	ol Sampl Type: S 	e Du olubl RP Lim 2
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: LCSD 880-46 Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: 890-4094-1 M			Added 250 Spike Added	Result 238.5 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	95 mple ID	%Rec Limits 90 - 110 : Lab Contro Prep %Rec Limits 90 - 110 Client Sa	ol Sampl Type: S <u>9</u> umple ID:	e Du olubi RP Lim 2 SS0
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Eurofins Carlsbad

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Prep Batch

46437

46437

46437

46437

46437

46437

Job ID: 890-4094-1 SDG: Lea County NM

Method

8021B

8021B

8021B

8021B

8021B

8021B

8021B

Total BTEX

Lab Sample ID **Client Sample ID** 890-4094-1 SS05 880-24332-A-1 MB Method Blank MB 880-46437/5-A Method Blank LCS 880-46437/1-A Lab Control Sample LCSD 880-46437/2-A Lab Control Sample Dup 880-24648-A-1-B MS Matrix Spike 880-24648-A-1-C MSD Matrix Spike Duplicate

SS05

Prep Batch: 46437

GC VOA

Analysis Batch: 46371

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	9
890-4094-1	SS05	Total/NA	Solid	5035		
MB 880-46437/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-46437/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-46437/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
880-24648-A-1-B MS	Matrix Spike	Total/NA	Solid	5035		
880-24648-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		
Analysis Batch: 46513						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	

GC Semi VOA

890-4094-1

Prep Batch: 46409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4094-1	SS05	Total/NA	Solid	8015NM Prep	
MB 880-46409/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46409/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24624-A-7-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24624-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4094-1	SS05	Total/NA	Solid	8015B NM	46409
MB 880-46409/1-A	Method Blank	Total/NA	Solid	8015B NM	46409
LCS 880-46409/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46409
LCSD 880-46409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46409
880-24624-A-7-D MS	Matrix Spike	Total/NA	Solid	8015B NM	46409
880-24624-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46409

Analysis Batch: 46669

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4094-1	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46459

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4094-1	SS05	Soluble	Solid	DI Leach	
MB 880-46459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

HPLC/IC (Continued)

Leach Batch: 46459 (Continued)

Lab Sample ID LCSD 880-46459/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Soluble	Matrix	Method DI Leach	Prep Batch
890-4094-1 MS	SS05	Soluble	Solid	DI Leach	
890-4094-1 MSD	SS05	Soluble	Solid	DI Leach	

Analysis Batch: 46551

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-4094-1	SS05	Soluble	Solid	300.0	46459	
MB 880-46459/1-A	Method Blank	Soluble	Solid	300.0	46459	8
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	300.0	46459	
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46459	9
890-4094-1 MS	SS05	Soluble	Solid	300.0	46459	
890-4094-1 MSD	SS05	Soluble	Solid	300.0	46459	

Job ID: 890-4094-1 SDG: Lea County NM

Eurofins Carlsbad

Page 92 of 223

5 6 7

Job ID: 890-4094-1 SDG: Lea County NM

Lab Sample ID: 890-4094-1 Matrix: Solid

Client Sample ID: SS05 Date Collected: 02/08/23 12:50 Date Received: 02/13/23 15:02

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46437	02/15/23 14:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46371	02/16/23 06:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46513	02/16/23 10:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46669	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46479	02/17/23 03:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		1			46551	02/16/23 21:19	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 2/21/2024 9:22:18 AM

Client: Ensolum

Accreditation/Certification Summary

Job ID: 890-4094-1 SDG: Lea County NM 3 4 5 6 7 8 9 10

rity	Pro	ogram	Identification Number	Expiration Date
	NE	ELAP	T104704400-22-25	06-30-23
agency does not of	er certification.		ied by the governing authority. This list n	nay include analytes for
0,	1 /	it the laboratory is not certifi Matrix	ied by the governing authority. This list n Analyte	nay include analytes for
agency does not of	er certification.		, , , , , ,	nay include analytes for

Eurofins Carlsbad

Client: Ensolum

Job ID: 890-4094-1 SDG: Lea County NM

B015B NMDiesel Range Organics (DRO) (GC)SW846EET MID300.0Anions, Ion ChromatographyEPAEET MID5035Closed System Purge and TrapSW846EET MID8015NM PrepMicroextractionSW846EET MID	Method	Method Description	Protocol	Laboratory
8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID8015B NMDiesel Range Organics (DRO) (GC)SW846EET MID300.0Anions, Ion ChromatographyEPAEET MID5035Closed System Purge and TrapSW846EET MID8015NM PrepMicroextractionSW846EET MIDDI LeachDeionized Water Leaching ProcedureASTMEET MIDProtocol References:ASTM = ASTM International EPA = US Environmental Protection Agency SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating ProcedureLiboratory References:	8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Diesel Range Organics (DRO) (GC) SW846 EET MID 300.0 Anions, Ion Chromatography EPA EET MID 5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International EPA = US Environmental Protection Agency SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure	Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
30.0Anions, Ion ChromatographyEPAEET MID5035Closed System Purge and TrapSW846EET MID8015NM PrepMicroextractionSW846EET MIDDI LeachDeionized Water Leaching ProcedureASTMEET MIDProtocol References:ASTM = ASTM InternationalEPA = US Environmental Protection AgencySW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.TAL SOP = TestAmerica Laboratories, Standard Operating Procedure	8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International EPA = US Environmental Protection Agency SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International EPA = US Environmental Protection Agency SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International EPA = US Environmental Protection Agency: SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References: Etaboratories, Standard Operating Procedure	5035	Closed System Purge and Trap	SW846	EET MID
Protocol References: ASTM = ASTM International EPA = US Environmental Protection Agency SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	8015NM Prep	Microextraction	SW846	EET MID
ASTM = ASTM International EPA = US Environmental Protection Agency SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:			ion November 1986 And Its Undates	
Laboratory References:	SW846 = '	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edit	ion, November 1986 And Its Updates.	
-	TAL SOP :	 restAmerica Laboratories, Standard Operating Procedure 		
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440	-			
	EET MID :	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Eurofins Carlsbad

Sample Summary

Job ID: 890-4094-1 SDG: Lea County NM

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4094-1	SS05	Solid	02/08/23 12:50	02/13/23 15:02	0.5	4
						5
						8
						9
						12
						13

3 DAMA	Relinquished by: (Signature)		of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such bases are due to circumstances beyond une control of Eurofins Xenco. A minimum charge of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated to Eurofins Xenco. A minimum charge of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. But not analyzed. These terms will be enforced unless previously negotiated to the sample submitted to the sample submitted to the sample submitted to Eurofine Xenco. But not analyzed.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010									SS05		Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location:	Project Number:	Project Name:		City, State ZIP: Mic			Project Manager: Kal			euronns	•
	signature)		It be liable only for the charge of \$85.00	ment and relinquisi	Metal(s) to be a	200.8 / 6020:		~							S				Yes No	Yes No	(Mas	Temp Blank:		Dmitry N	Lea County, NM	03D20	EVGSAU Sat (817-683-2503	Midland, TX 79701	601 N Marienfeld St Suite 400	Ensolum, LLC	Kalei Jennings		i Xenco		
Amp	Recei		the cost of samples will be applied to ear	ment of samples co	analyzed					7					2/8/2023	+	Matrix Date Sampled	Corrected	N/A Temperatu	N/A Correction Factor:	Thermometer ID:	nk: Yes No)	Dmitry Nikanorov	inty, NM	03D2057072	EVGSAU Sat 6 Mobile Tester)1	St Suite 400				00	Environment Testing	
what a	Received by: (Signature)		and shall not assun ch project and a chi	onstitutes a valid pu	TCLP / SI	8RCRA 13PPM						A			23 12:50	+	Time d Sampled	Corrected Temperature:	Temperature Reading:	Factor:	ater ID:	Wet lce:	the tab, it rec	TAT starts th	Due Date:	✓ Routine		Email:							esting	
Stut	ture)		he any responsibility arge of \$5 for each s	rchase order from c	TCLP / SPLP 6010: 8RCRA	M Texas 11									0.5 Grab		Depth Comp	5.1	1.4	0.0	HNW-EV7	Ked No	the lab, it received by 4.50pm	TAT starts the day received by		Rush	Turn Around	Email: kiennings@ensolum.com. dnikanoroy@ensolum.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	1000	EL Pa	Hous: Midland	
2-13-23	Date/ I little		ample submittee	lient company to	CRA Sb As	AI Sb As t									- ×		Cont CHLOR	RIDE	S (E			nete	ers			Code		isolum.com,	Midlan	601 N			5, 1000 (OTO) 000-	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Chain
2 150 °	BILLING		to Eurofins Xei	Eurofins Xenco	Sb As Ba Be Cd	Ba Be B Cd	,								×	+	TPH (80 BTEX (1									dnikanorov(Midland, TX 79701	601 N Marienfeld St Suite 400	Ensolum, LLC	Kalei Jennings		5-3443, Lubbo	to-4200, Dalla 5440, San Anto	Chain of Custody
V	ISIN DIMAN		nco, but not ana	o, its affiliates an	Cr Co	CalC										-	_	0	0 =			=	_			-	A	@ensolum.c		Suite 400				ck, TX (806) 79 d. NM (575) 98	s, TX (214) 902 pnio, TX (210) 5	stody
	Reinquistied by. (Signature)		it if such losses are lyzed. These terms i	d subcontractors. I	Cu Pb Min Mo		2 1 2						_	+	_				800-4094 Chain				-				ANALYSIS REQUEST	om						14-1296 8-3199	<u>2-0300</u> 509-3334	
_			will be enforced u	t assigns standar	MO NI SE AG I	NIN NIN BIN										-			Chain of Custody								UEST	Deliverables: EDD	Reporting: Le	State of Project:	Program: US					
	Neccised by: (Digitation)	Dessigned by	nless previously	d terms and cor) OF	?																							ect:	TIPST PR	Wor	WWW.X6		Work O	
	· (Oldisaria)	· (Cignatura)	r negotiated.	nditions	Hg: 16317243.17747077471	AU SIU2 INA	2		+		-	+				_			L L	Na	Na	H ₃	12	Н	0	No			Reporting: Level II U Level III U PST/UST U TRRP U	3	Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	www.xenco.com		Work Order No:	
					0.1114101	AF A 17470 /	ווי						Incident				Sample Comments	NACH+ASCOIDIC ACID. SAFC	Zn Acetate+NaUH: Zn	Na2S2O3: NaSO3	NaHSO4: NABIS	H ₃ PO ₄ : HP	H23U4. H2		Cool: Cool	None: NO	Preservative Codes	U Other:]		nments	Page (-		
		Date/Time			1411	7474							Incident Number				omments	ACIO. SAPO	IH: Zn				NACH, NA	HNO3 HN	MeOH: Me	DI Water: H ₂ O	ive Codes				j Superfun	1	of	_		

5 6

12 13

Job Number: 890-4094-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4094 List Number: 1 Creator: Clifton, Cloe

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

14

14

Job Number: 890-4094-1 SDG Number: Lea County NM List Source: Eurofins Midland

List Creation: 02/15/23 12:16 PM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4094 List Number: 2 Creator: Rodriguez, Leticia

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

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

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4095 List Number: 2 Creator: Rodriguez, Leticia

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

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

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Job Number: 890-4095-1

SDG Number: Lea County NM List Source: Eurofins Midland

List Creation: 02/15/23 12:16 PM

Received by OCD: 1/2/2024 1:15:12 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/20/2023 2:58:12 PM

JOB DESCRIPTION

EVGSAU Sat 6 Mobile Tester SDG NUMBER Lea County NM

JOB NUMBER

890-4097-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 1/2/2024 1:15:12 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 2/20/2023 2:58:12 PM

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

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Job ID: 890-4097-1
SDG: Lea County NM

Qualifiers		_ 3
GC VOA		
Qualifier	Qualifier Description	_ 4
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	7
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	9
Glossary		10
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	13
DER	Duplicate Error Ratio (normalized absolute difference)	13
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	

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

TNTC Too Numerous To Count

POS

PQL

QC

RER

RPD

RL

PRES

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4

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Job ID: 890-4097-1 SDG: Lea County NM

Job ID: 890-4097-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4097-1

Receipt

The sample was received on 2/13/2023 3:02 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS06 (890-4097-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46342 and analytical batch 880-46568 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

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

HPLC/IC

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

Job ID: 890-4097-1 SDG: Lea County NM

Client Sample ID: SS06

Date Collected: 02/08/23 12:55 Date Received: 02/13/23 15:02

Client: Ensolum

Lab Sample ID: 890-4097-1

Matrix: Solid

Dil Fac

1

1

1

1

1

1

1

1

1

Dil Fac

Dil Fac

Dil Fac

Dil Fac

5

Method: SW846 8021B - Volat					_		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed
Benzene	<0.00198		0.00198	mg/Kg		02/14/23 16:34	02/17/23 17:39
Toluene	<0.00198	U	0.00198	mg/Kg		02/14/23 16:34	02/17/23 17:39
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/14/23 16:34	02/17/23 17:39
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		02/14/23 16:34	02/17/23 17:39
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/14/23 16:34	02/17/23 17:39
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/14/23 16:34	02/17/23 17:39
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
4-Bromofluorobenzene (Surr)	105		70 - 130			02/14/23 16:34	02/17/23 17:39
1,4-Difluorobenzene (Surr)	85		70 - 130			02/14/23 16:34	02/17/23 17:39
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/20/23 14:15
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Total TPH	<49.9	U	49.9	mg/Kg			02/20/23 15:10
Method: SW846 8015B NM - D	viesel Range Orga	nics (DRO)	(GC)				
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/16/23 09:41	02/17/23 13:40

1 02/17/23 13:40	1
1 02/17/23 13:40	1
1 02/17/23 13:40	1
Analyzed	Dil Fac
41 02/17/23 13:40	1
41 02/17/23 13:40	1
Analyzed	Dil Fac
02/16/23 22:03	
4	41 02/17/23 13:40 41 02/17/23 13:40 41 02/17/23 13:40 41 02/17/23 13:40 41 02/17/23 13:40 Analyzed

Job ID: 890-4097-1 SDG: Lea County NM

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-4089-A-1-B MS	Matrix Spike	126	114		
890-4089-A-1-C MSD	Matrix Spike Duplicate	132 S1+	104		6
890-4097-1	SS06	105	85		
LCS 880-46342/1-A	Lab Control Sample	109	105		
LCSD 880-46342/2-A	Lab Control Sample Dup	116	103		
MB 880-46342/5-A	Method Blank	76	96		8
Surrogate Legend					9
BFB = 4-Bromofluorobe	nzene (Surr)				3

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
)-4097-1	SS06	100	105	
4100-A-1-D MS	Matrix Spike	113	110	
100-A-1-E MSD	Matrix Spike Duplicate	109	107	
80-46507/2-A	Lab Control Sample	98	114	
0 880-46507/3-A	Lab Control Sample Dup	114	125	
880-46507/1-A	Method Blank	91	112	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Lab Sample ID: MB 880-46342/5-A

QC Sample Results

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 46568							Prep Type: 1 Prep Batch	
	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			02/14/23 16:34	02/17/23 14:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130			02/14/23 16:34	02/17/23 14:09	1

Lab Sample ID: LCS 880-46342/1-A Matrix: Solid

Analysis Batch: 46568

Spike	LCS	LCS			%Rec
Analyte Added	Result	Qualifier Unit	D	%Rec	Limits
Benzene 0.100	0.1214	mg/ł	(g	121	70 - 130
Toluene 0.100	0.1106	mg/ł	Κg	111	70 - 130
Ethylbenzene 0.100	0.1137	mg/ł	ζg	114	70 - 130
m-Xylene & p-Xylene 0.200	0.2456	mg/ł	(g	123	70 - 130
o-Xylene 0.100	0.1219	mg/ł	٢g	122	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-46342/2-A

Matrix: Solid

Analysis Batch: 46568						Prep Batch: 46342			
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1054		mg/Kg		105	70 - 130	14	35
Toluene	0.100	0.1042		mg/Kg		104	70 - 130	6	35
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2301		mg/Kg		115	70 - 130	6	35
o-Xylene	0.100	0.1157		mg/Kg		116	70 - 130	5	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-4089-A-1-B MS

Matrix: Solid

nalysis Batch: 46568					Prep	Prep Batch: 46342				
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1 F2	0.100	0.1523	F1	mg/Kg		152	70 - 130	
Toluene	<0.00202	U	0.100	0.09819		mg/Kg		98	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 46342

Released to Imaging: 2/21/2024 9:22:18 AM

QC Sample Results

MS MS

0.09453

0.2043

0.1039

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.100

0.200

0.100

Limits 70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Lab Sample ID: 890-4089-A-1-B MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 46568

Sample Sample

<0.00202

<0.00403 U

<0.00202 U

126

114

104

%Recovery

Result Qualifier

U

MS MS

Qualifier

Client Sample ID: Matrix Spike Duplicat	е
Prep Type: Total/N	A

Client Sample ID: Method Blank

02/17/23 08:54

Client Sample ID: Lab Control Sample

02/16/23 09:40

Prep Type: Total/NA

Prep Batch: 46507

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

94

102

104

D

Matrix: Solid Analysis Batch: 46568

Lab Sample ID: 890-4089-A-1-C MSD

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

										Batom		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00202	U F1 F2	0.0990	0.1032	F2	mg/Kg		104	70 - 130	38	35	
Toluene	<0.00202	U	0.0990	0.09209		mg/Kg		93	70 - 130	6	35	ī
Ethylbenzene	<0.00202	U	0.0990	0.09634		mg/Kg		97	70 - 130	2	35	
m-Xylene & p-Xylene	<0.00403	U	0.198	0.2071		mg/Kg		105	70 - 130	1	35	ï
o-Xylene	<0.00202	U	0.0990	0.1053		mg/Kg		106	70 - 130	1	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130									

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

Lab Sample ID: MB 880-46507/1-A Matrix: Solid Analysis Batch: 46558

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/16/23 09:40	02/17/23 08:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/16/23 09:40	02/17/23 08:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/16/23 09:40	02/17/23 08:54	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			02/16/23 09:40	02/17/23 08:54	1

70 - 130

o-Terphenyl	112
 Lab Sample ID: LCS 880-46507/2-A	

Matrix: Solid Analysis Batch: 46558

Analysis Batch: 46558							Prep	o Batch: 46507
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	860.8		mg/Kg		86	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	994.1		mg/Kg		99	70 - 130	
C10-C28)								

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Prep Type: Total/NA

QC Sample Results

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

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

Lab Sample ID: LCS 880-46	507/2-A						Client	Sample	ID: Lab Co		
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 46558									Prep	Batch:	46507
	LCS	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane	<u>98</u>	quamer	70 - 130								
o-Terphenyl	114		70 - 130								
	114		102100								
Lab Sample ID: LCSD 880-4	46507/3-A					Clie	nt Sam	nple ID: I	Lab Contro	I Sampl	e Dup
Matrix: Solid										ype: To	
Analysis Batch: 46558										Batch:	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	988.4		mg/Kg		99	70 - 130	14	20
(GRO)-C6-C10						0.0					-
Diesel Range Organics (Over			1000	1078		mg/Kg		108	70 - 130	8	20
C10-C28)											
	1050	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane		Quanner	70 - 130								
o-Terphenyl	125		70 - 130 70 - 130								
	125		70 - 750								
Lab Sample ID: 890-4100-A	-1-D MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										ype: To	
Analysis Batch: 46558										Batch:	
· · · · · , · · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.8		1000	1059		mg/Kg		101	70 - 130		
(GRO)-C6-C10	10.0	0	1000						10-100		
Diesel Range Organics (Over	<49.8	U	1000	1114		mg/Kg		110	70 - 130		
C10-C28)											
	MS	MS									
Surrogata			Limits								
Surrogate 1-Chlorooctane	%Recovery 113	Quaimer	70 - 130								
	113		70 - 130 70 - 130								
o-Terphenyl	110		70 - 130								
 Lab Sample ID: 890-4100-A	-1-F MSD					CI	ient Sa	ample ID): Matrix Sp	nike Dun	olicate
Matrix: Solid										ype: To	
Analysis Batch: 46558										Batch:	
Analysis Datch. 40000	Sample	Sample	Spike	мер	MSD				%Rec	Daten.	RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000 Added	1047		mg/Kg		100	70 - 130	<u> </u>	20
(GRO)-C6-C10	~43.0	5	1000	1047		mg/ixg		100	10 - 100	I	20
Diesel Range Organics (Over	<49.8	U	1000	1079		mg/Kg		106	70 - 130	3	20
						0.0					
C10-C28)											
C10-C28)											
		MSD									
Surrogate	%Recovery		Limits								
		Qualifier	Limits 70 - 130 70 - 130								

Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

QC Sample Results

Job ID: 890-4097-1 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

,														
_ Lab Sample ID: MB 880-46459/1-A Matrix: Solid	x										Client S	ample ID:	Method Type: S	
Analysis Batch: 46551												Fieh	Type. 3	Juble
Analysis Batch. 40001		мви	MB											
Analyte	R		Qualifier		RL		Un	hit	D	P	repared	Analy	zod	Dil Fac
Chloride		<5.00 l			5.00			g/Kg			opulou	02/16/23		1
-								5						
Lab Sample ID: LCS 880-46459/2-	Α								Cli	ent	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 46551														
				Spike		LCS	LCS					%Rec		
Analyte				Added			Qualifie	r Unit		D	%Rec	Limits		
Chloride				250		238.5		mg/Kg			95	90 - 110		
Lab Sample ID: LCSD 880-46459/3	~							C	iont S			Lab Contro		
Matrix: Solid	5- A								ient s	Dain	ipie iD.		Type: S	
Analysis Batch: 46551												Fieh	Type. 3	oluble
Analysis Datch. 40001				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added			Qualifie	r Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		261.8		mg/Kg		_	105	90 - 110	9	20
-														
Lab Sample ID: 890-4094-A-1-E M	S										Client	Sample I		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 46551														
	Sample			Spike			MS					%Rec		
Analyte		Qualif	ier	Added			Qualifie			<u>D</u>	%Rec	Limits		
Chloride	11.1			251		262.5		mg/Kg			100	90 - 110		
Lab Sample ID: 890-4094-A-1-F M	SD								Clien	t Sa	ample IC): Matrix S	pike Dur	olicate
Matrix: Solid													Type: S	
Analysis Batch: 46551													7 10 0 0	
· · · · · · · · · · · · · · · · · · ·	Sample	Sampl	le	Spike		MSD	MSD					%Rec		RPD
	Gampio													
Analyte		Qualif	lier	Added		Result	Qualifie	r Unit		D	%Rec	Limits	RPD	Limit

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Job ID: 890-4097-1 SDG: Lea County NM

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4097-1	SS06	Total/NA	Solid	5035	
MB 880-46342/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46342/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-46342/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4089-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4089-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 46568					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
390-4097-1	SS06	Total/NA	Solid	8021B	4634
MB 880-46342/5-A	Method Blank	Total/NA	Solid	8021B	4634
_CS 880-46342/1-A	Lab Control Sample	Total/NA	Solid	8021B	4634
CSD 880-46342/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4634
390-4089-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	4634
890-4089-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46342
nalysis Batch: 46744					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4097-1	SS06	Total/NA	Solid	Total BTEX	
C Semi VOA					
rep Batch: 46507					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
390-4097-1	SS06	Total/NA	Solid	8015NM Prep	
MB 880-46507/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
_CS 880-46507/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
_CSD 880-46507/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46558

Matrix Spike Duplicate

890-4100-A-1-E MSD

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4097-1	SS06	Total/NA	Solid	8015B NM	46507
MB 880-46507/1-A	Method Blank	Total/NA	Solid	8015B NM	46507
LCS 880-46507/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46507
LCSD 880-46507/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46507
890-4100-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	46507
890-4100-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46507
Analysis Batch: 46784					
l ah Sample ID	Client Sample ID	Pren Tyne	Matrix	Method	Pren Batch

Total/NA

Solid

ao Sample ID Client Sample ID Prep Type Method Prep Batch Matrix 890-4097-1 SS06 Total/NA Solid 8015 NM

HPLC/IC

Leach Batch: 46459

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4097-1	SS06	Soluble	Solid	DI Leach	
MB 880-46459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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8015NM Prep

GC VOA

Leach Batch: 46459 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4094-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Analysis Batch: 46551					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4097-1	SS06	Soluble	Solid	300.0	46459
MB 880-46459/1-A	Method Blank	Soluble	Solid	300.0	46459
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	300.0	46459
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46459
890-4094-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	46459
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	46459

Job ID: 890-4097-1 SDG: Lea County NM

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5 6 7

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Project/Site: EVGSAU Sat 6 Mobile Tester

Job ID: 890-4097-1 SDG: Lea County NM

Lab Sample ID: 890-4097-1 Matrix: Solid

Client Sample ID: SS06 Date Collected: 02/08/23 12:55 Date Received: 02/13/23 15:02

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46342	02/14/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46568	02/17/23 17:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46744	02/20/23 14:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46784	02/20/23 15:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 13:40	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		1			46551	02/16/23 22:03	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

10

Job ID: 890-4097-1	
SDG: Lea County NM	

Laboratory: Eurofins Midland

Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

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

uthority	P	rogram	Identification Number	Expiration Date
exas	N	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, be	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w
the agency does not o	fer certification.			
the agency does not o Analysis Method	fer certification. Prep Method	Matrix	Analyte	
6 ,		Matrix Solid	Analyte Total TPH	

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Job ID: 890-4097-1 SDG: Lea County NM

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

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Job ID: 890-4097-1 SDG: Lea County NM

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4097-1	SS06	Solid	02/08/23 12:55	02/13/23 15:02	0.5	4
						5
						8
						9
						12
						13

	Хепсо	Zenco Xenco	0000	Midland, 1 EL Paso Hobbs, N	X (432) 704-5440, TX (915) 585-344; VM (575) 392-7550,	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	
				Hobbs, f	VM (575) 392-7550.	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	
Project Manager: K	Kalei Jennings			Bill to: (if different)	Kalei Jennings	5	
	Ensolum, LLC			Company Name:	Ensolum, LLC		Program: UST/PST PRP Brownfields RRC
	601 N Marienfeld St Suite 400	St Suite 400		Address:	601 N Marie	601 N Marienfeld St Suite 400	State of Project:
e ZIP:	Midland, TX 79701	-		City, State ZIP:	Midland, TX 79701	79701	Reporting: Level II C Level III PST/UST TRRP
	817-683-2503		Email:	kjennings@ensc	olum.com, dnika	Email: kjennings@ensolum.com, dnikanorov@ensolum.com	Deliverables: EDD
Project Name:	EVGSAU Sat 6 Mobile Tester	Mobile Tester	Turn	Turn Around		ANALYSIS REQ	REQUEST
Project Number:	03D2057072	57072	✓ Routine	Rush C	Pres. Code		
Project Location:	Lea County, NM	nty, NM	Due Date:				
Sampler's Name:	Dmitry Nikanorov	ikanorov	TAT starts the	e day received by			
PO#			the lab, if rec	the lab, if received by 4:30pm	rs		
SAMPLE RECEIPT	>T Temp Blank:	ik: (es) No	Wet Ice:	Reg No	nete 0)		
Samples Received Intact:		Thermometer ID:	er ID:	10 M 207			
Cooler Custody Seals:	Yes No	M/A Correction Factor:	actor:	IP.			
Sample Custody Seals:	: Yes No	N/A Temperature Reading:	e Reading:	12.4	S (E		
Total Containers:		Corrected T	Corrected Temperature:	5.)		890-4097 Cha	in of Custody
Sample Identification		Matrix Date Sampled	Time Sampled	Depth Grab/ #	C # of CHLO TPH (8	BTEX	
SS06	s	2/8/2023	12:55	0.5' Grab	1 × ×	×	
		2					
		AND IN					
Total 200.7 / 6010	10 200.8 / 6020:		8RCRA 13PPM	M Texas 11 A	0/11		Mg Mn Mo Ni
Circle Method(s) and Metal(s) to be analyzed	d Metal(s) to be a	inalyzed	TCLP / SP	TCLP / SPLP 6010: 8RCRA		Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	Mo Ni Se Ag Ti U
e: Signature of this do vice. Eurofins Xenco rofins Xenco. A minim	ocument and relinquish o will be liable only for t mum charge of \$85.00 v	ment of samples con he cost of samples au vill be applied to each	stitutes a valid pur nd shall not assum n project and a cha	rchase order from cliei le any responsibility fo lrge of \$5 for each sam	nt company to Eurofi r any losses or expe nple submitted to Eur	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotial	tors. It assigns standard terms and conditions ses are due to circumstances beyond the control terms will be enforced unless previously negotiated
Relinquished by: (Signature)	(Signature)	Receiv	Received by: (Signature)	ure)	Date/Time	Relinquished by: (Signature)	re)
DUNKS		mas	a x	A	2-13:23	6621	
				0		4 0	

2/20/2023

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Chain of Custody

Job Number: 890-4097-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4097 List Number: 1 Creator: Clifton, Cloe

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

Job Number: 890-4097-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 02/15/23 12:16 PM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 4097 List Number: 2 Creator: Rodriguez, Leticia

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

Eurofins Carlsbad Released to Imaging: 2/21/2024 9:22:18 AM

Received by OCD: 1/2/2024 1:15:12 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/20/2023 2:49:21 PM

JOB DESCRIPTION

EVGSAU Sat 6 Mobile Tester SDG NUMBER Lea County NM

JOB NUMBER

890-4098-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information



Received by OCD: 1/2/2024 1:15:12 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 2/20/2023 2:49:21 PM

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

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

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Method Summary	16
Sample Summary	17
	18
-	19

Job ID: 890-4098-1	
SDG: Lea County NM	

Qualifiers

Quaimers		3
GC VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
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)

EDLEstimated Detection Limit (Dioxin)LODLimit 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 report

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

Project/Site: EVGSAU Sat 6 Mobile Tester

Job ID: 890-4098-1 SDG: Lea County NM

Job ID: 890-4098-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4098-1

Receipt

The sample was received on 2/13/2023 3:02 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS07 (890-4098-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46342 and analytical batch 880-46568 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: The method blank for preparation batch 880-46509 and analytical batch 880-46560 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46509 and analytical batch 880-46560 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

HPLC/IC

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

Project/Site: EVGSAU Sat 6 Mobile Tester

Matrix: Solid

5

Job ID: 890-4098-1 SDG: Lea County NM

Lab Sample ID: 890-4098-1

Client Sample ID: SS07

Date Collected: 02/08/23 13:00 Date Received: 02/13/23 15:02

Sample Depth: 0.5

Client: Ensolum

Chloride

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

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/14/23 16:34	02/17/23 18:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/14/23 16:34	02/17/23 18:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/14/23 16:34	02/17/23 18:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/14/23 16:34	02/17/23 18:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/14/23 16:34	02/17/23 18:00	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/14/23 16:34	02/17/23 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			02/14/23 16:34	02/17/23 18:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130			02/14/23 16:34	02/17/23 18:00	1
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/20/23 14:15	1
Nethed: CW/84C 9045 NM Diese			20)					
Method: SW846 8015 NM - Diese Analyte	• •							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		Qualifier U	RL 49.9	Unit mg/Kg	<u> </u>	Prepared	Analyzed 02/19/23 12:20	Dil Fac
Total TPH	<49.9	U	49.9		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Dies	<49.9 sel Range Orga	U	49.9		D	Prepared		
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.9 sel Range Orga	U nics (DRO) Qualifier	49.9 (GC)	mg/Kg		<u>.</u>	02/19/23 12:20	1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	<49.9 sel Range Orga Result <49.9	U nics (DRO) Qualifier U *1	49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/16/23 09:47	02/19/23 12:20 Analyzed 02/17/23 18:10	1 Dil Fac 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 sel Range Orga Result	U nics (DRO) Qualifier U *1	49.9 (GC) RL	mg/Kg Unit		Prepared	02/19/23 12:20 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9	U nics (DRO) Qualifier U *1 U	49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/16/23 09:47	02/19/23 12:20 Analyzed 02/17/23 18:10	1 Dil Fac 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 sel Range Orga Result <49.9 <49.9	U nics (DRO) Qualifier U*1 U	49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:47 02/16/23 09:47	02/19/23 12:20 Analyzed 02/17/23 18:10 02/17/23 18:10	1 Dil Fac 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9 <49.9	U nics (DRO) Qualifier U*1 U	49.9 (GC) <u>RL</u> 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:47 02/16/23 09:47 02/16/23 09:47	02/19/23 12:20 Analyzed 02/17/23 18:10 02/17/23 18:10 02/17/23 18:10	1 1 1 1
	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery	U nics (DRO) Qualifier U*1 U	49.9 (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u>	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared	02/19/23 12:20 Analyzed 02/17/23 18:10 02/17/23 18:10 02/17/23 18:10 02/17/23 18:10	1 Dil Fac 1 1 1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 <49.9 <79 79 77	U nics (DRO) Qualifier U *1 U U Qualifier	49.9 (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared 02/16/23 09:47	02/19/23 12:20 Analyzed 02/17/23 18:10 02/17/23 18:10 02/17/23 18:10 Analyzed 02/17/23 18:10	1 Dil Fac 1 1 1 1 Dil Fac 1

5.05

mg/Kg

114

02/16/23 23:59

1

Job ID: 890-4098-1 SDG: Lea County NM

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-4089-A-1-B MS	Matrix Spike	126	114		
890-4089-A-1-C MSD	Matrix Spike Duplicate	132 S1+	104		6
890-4098-1	SS07	104	90		
LCS 880-46342/1-A	Lab Control Sample	109	105		
LCSD 880-46342/2-A	Lab Control Sample Dup	116	103		
MB 880-46342/5-A	Method Blank	76	96		8
Surrogate Legend					9
BFB = 4-Bromofluorobe	nzene (Surr)				3

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
Sample ID	Client Sample ID	(70-130)	(70-130)	
8-1	SS07	79	77	
A-1-C MS	Matrix Spike	105	93	
9-A-1-D MSD	Matrix Spike Duplicate	101	90	
46509/2-A	Lab Control Sample	100	90	
80-46509/3-A	Lab Control Sample Dup	100	99	
0-46509/1-A	Method Blank	100	94	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Lab Sample ID: MB 880-46342/5-A

QC Sample Results

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 46568							Prep Type: 1 Prep Batch	
	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/14/23 16:34	02/17/23 14:09	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			02/14/23 16:34	02/17/23 14:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130			02/14/23 16:34	02/17/23 14:09	1

Lab Sample ID: LCS 880-46342/1-A Matrix: Solid

Analysis Batch: 46568

Spik	ECS	LCS			%Rec
Analyte Added	l Result	Qualifier Unit	D	%Rec	Limits
Benzene 0.100	0.1214	mg/Kg		121	70 - 130
Toluene 0.100	0.1106	mg/Kg		111	70 - 130
Ethylbenzene 0.100	0.1137	mg/Kg		114	70 - 130
m-Xylene & p-Xylene 0.200	0.2456	mg/Kg		123	70 - 130
o-Xylene 0.100	0.1219	mg/Kg		122	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-46342/2-A

Matrix: Solid

Analysis Batch: 46568							Prep	Batch:	46342
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1054		mg/Kg		105	70 - 130	14	35
Toluene	0.100	0.1042		mg/Kg		104	70 - 130	6	35
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2301		mg/Kg		115	70 - 130	6	35
o-Xylene	0.100	0.1157		mg/Kg		116	70 - 130	5	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-4089-A-1-B MS

Matrix: Solid

Analysis Batch: 46568									Pre	p Batch: 46342
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1 F2	0.100	0.1523	F1	mg/Kg		152	70 - 130	
Toluene	<0.00202	U	0.100	0.09819		mg/Kg		98	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 46342

Analysis Batch: 46568			
	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
Benzene	<0.00202	U F1 F2	0.100
Teluene	<0.00000		0 100

QC Sample Results

MS MS

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Result

0.09453

0.2043

0.1039

Spike

Added

0.100

0.200

0.100

Limits 70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Lab Sample ID: 890-4089-A-1-B MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 46568

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Sample Sample

<0.00202

<0.00403 U

<0.00202 U

126

114

104

%Recovery

Result Qualifier

U

MS MS

Qualifier

Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 46342 7

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

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

94

102

104

D

Matrix: Solid Analysis Batch: 46568

Lab Sample ID: 890-4089-A-1-C MSD

Analysis Batch: 46568									Prep	Batch:	46342	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	< 0.00202	U F1 F2	0.0990	0.1032	F2	mg/Kg		104	70 - 130	38	35	
Toluene	<0.00202	U	0.0990	0.09209		mg/Kg		93	70 - 130	6	35	i
Ethylbenzene	<0.00202	U	0.0990	0.09634		mg/Kg		97	70 - 130	2	35	
m-Xylene & p-Xylene	<0.00403	U	0.198	0.2071		mg/Kg		105	70 - 130	1	35	i
o-Xylene	<0.00202	U	0.0990	0.1053		mg/Kg		106	70 - 130	1	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130									

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

Lab Sample ID: MB 880-46509/1-A Matrix: Solid Analysis Batch: 46560	A.					Client Sa	mple ID: Metho Prep Type: ⊺ Prep Batcł	Fotal/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/16/23 09:47	02/17/23 08:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/16/23 09:47	02/17/23 08:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/16/23 09:47	02/17/23 08:54	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			02/16/23 09:47	02/17/23 08:54	1
o-Terphenyl	94		70 - 130			02/16/23 09:47	02/17/23 08:54	1

Lab Sample ID: LCS 880-46509/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 46560 Prep Batch: 46509 Spike LCS LCS %Rec Added Qualifier Analyte Result Unit D %Rec Limits 1000 825.8 83 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 912.4 mg/Kg 91 70 - 130 C10-C28)

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QC Sample Results

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

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

Job ID: 890-4098-1 SDG: Lea County NM

Lab Sample ID: LCS 880-46	509/2-A						Client	Sample	ID: Lab Co	ontrol Sa	ample
Matrix: Solid									Prep T	ype: Tot	tal/N/
Analysis Batch: 46560									Prep	Batch:	4650
	LCS	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	90		70 - 130								
Lab Sample ID: LCSD 880-4	46509/3-A					Clie	nt Sam	ple ID: L	ab Contro	I Sample	e Du
Matrix: Solid									Prep T	ype: Tot	tal/N
Analysis Batch: 46560									Prep	Batch:	4650
			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			1000	1126	*1	mg/Kg		113	70 - 130	31	2
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1011		mg/Kg		101	70 - 130	10	2
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	99		70 - 130								
Analysis Batch: 46560 Analyte Gasoline Range Organics GRO)-C6-C10	•	Sample Qualifier U *1	Spike Added 1000		MS Qualifier	- <mark>Unit</mark> mg/Kg	D	%Rec	Rec Limits 70 - 130	Batch: •	4650
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	886.5		mg/Kg		87	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
p-Terphenyl	93		70 - 130								
∟ab Sample ID: 890-4099-A Matrix: Solid Analysis Batch: 46560	-1-D MSD					CI	ient Sa	ample ID:		oike Dup Type: Tot Batch: 4	tal/N
analysis Batom 40000	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics (GRO)-C6-C10	<49.8		1000	1111		mg/Kg		107	70 - 130	2	2
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	863.0		mg/Kg		85	70 - 130	3	2
/											
,	MSD	MSD									
		MSD Qualifier	Limits								
Surrogate 1-Chlorooctane	MSD %Recovery 101		Limits								

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Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

QC Sample Results

Job ID: 890-4098-1 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46462/1-A										С	lient S	ample ID:		
Matrix: Solid												Prep	Type: S	
Analysis Batch: 46553														
	_	MB							_	_				
Analyte			Qualifier		RL 5.00		Unit		D	Pre	pared	Analy		Dil Fa
Chloride	<	<5.00	U		5.00		mg/Kg					02/16/23	23:40	
Lab Sample ID: LCS 880-46462/2-A									Clie	nt S	ample	D: Lab C	ontrol S	ample
Matrix: Solid													Type: S	
Analysis Batch: 46553														
				Spike	LC	S LCS						%Rec		
Analyte				Added	Resu	t Quali	fier L	Jnit	0	5	%Rec	Limits		
Chloride				250	240	4	r	ng/Kg			96	90 _ 110		
Lab Sample ID: LCSD 880-46462/3-	·A							Cli	ent Sa	amp	le ID: I	Lab Contr		
Matrix: Solid												Prep	Type: S	olubl
Analysis Batch: 46553														
				0	1.00		•					0/ D		
Analysia				Spike				1				%Rec	000	
				Added	Resu	t Quali	fier L	Jnit	[<u> </u>	%Rec	Limits	RPD	Lim
						t Quali	fier L	Jnit ng/Kg	[<u> </u>	% Rec 96		RPD	Limi
Chloride				Added	Resu	t Quali	fier L		[<u> </u>		Limits 90 - 110	1	2
Chloride Lab Sample ID: 890-4098-1 MS				Added	Resu	t Quali	fier L		<u>[</u>	<u> </u>		Limits 90 - 110 Client Sa	1 Imple ID	Lim 2 : SS0
Chloride Lab Sample ID: 890-4098-1 MS Matrix: Solid				Added	Resu	t Quali	fier L		<u>[</u>	<u> </u>		Limits 90 - 110 Client Sa	1	Lim 2 : SS0
Chloride Lab Sample ID: 890-4098-1 MS Matrix: Solid	Sample	Samı		Added	Resu 238	t Quali	fier L		<u>[</u>	<u> </u>		Limits 90 - 110 Client Sa	1 Imple ID	Limi 20 : SS0 7
Chloride Lab Sample ID: 890-4098-1 MS Matrix: Solid Analysis Batch: 46553	Sample Result			Added 250	Resu 238	t Quali	fier L					Limits 90 - 110 Client Sa Prep	1 Imple ID	Limi 20 : SS0 7
Chloride Lab Sample ID: 890-4098-1 MS Matrix: Solid Analysis Batch: 46553 Analyte				Added 250 Spike	Resu 238	S MS	fier L	ng/Kg			96	Limits 90 - 110 Client Sa Prep %Rec	1 Imple ID	Lim 2 : SS0
Chloride Lab Sample ID: 890-4098-1 MS Matrix: Solid Analysis Batch: 46553 Analyte Chloride	Result			Added 250 Spike Added	Resu 238 M Resu	S MS	fier L	ng/Kg Jnit			96 %Rec	Limits 90 - 110 Client Sa Prep %Rec Limits 90 - 110	ample ID Type: S	Lim 2 : SS0 solubl
Chloride Lab Sample ID: 890-4098-1 MS Matrix: Solid Analysis Batch: 46553 Analyte Chloride Lab Sample ID: 890-4098-1 MSD	Result			Added 250 Spike Added	Resu 238 M Resu	S MS	fier L	ng/Kg Jnit			96 %Rec	Limits 90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa	ample ID Type: S	Limi 2' : SS0 : : SS0 : : SS0
Chloride Lab Sample ID: 890-4098-1 MS Matrix: Solid Analysis Batch: 46553 Analyte Chloride Lab Sample ID: 890-4098-1 MSD Matrix: Solid	Result			Added 250 Spike Added	Resu 238 M Resu	S MS	fier L	ng/Kg Jnit			96 %Rec	Limits 90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa	ample ID Type: S	Lim 2 : SS0 : SS0 : SS0
Chloride Lab Sample ID: 890-4098-1 MS Matrix: Solid Analysis Batch: 46553 Analyte Chloride Lab Sample ID: 890-4098-1 MSD Matrix: Solid	Result	Quali	ifier	Added 250 Spike Added	Resu 238 M Resu 360	S MS	fier L	ng/Kg Jnit			96 %Rec	Limits 90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa	ample ID Type: S	Limi 20 30 lublo 30 lublo 30 lublo
Matrix: Solid Analysis Batch: 46553 Analyte Chloride	Result 114	Quali	ifier	Added 250 Spike Added 253	Resu 238 M Resu 360	t Quali	fier L	ng/Kg Jnit	[) (96 %Rec	Limits 90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa Prep	ample ID Type: S	ioluble

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QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Job ID: 890-4098-1 SDG: Lea County NM

GC VOA

Prep Batch: 46342

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4098-1	SS07	Total/NA	Solid	5035	
MB 880-46342/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46342/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46342/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4089-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4089-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 4656	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4098-1	SS07	Total/NA	Solid	8021B	46342
MB 880-46342/5-A	Method Blank	Total/NA	Solid	8021B	46342
LCS 880-46342/1-A	Lab Control Sample	Total/NA	Solid	8021B	46342
LCSD 880-46342/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46342
890-4089-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	46342
890-4089-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46342
nalysis Batch: 4674	5				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4098-1	SS07	Total/NA	Solid	Total BTEX	

Prep Batch: 46509

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4098-1	SS07	Total/NA	Solid	8015NM Prep	
MB 880-46509/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46509/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4099-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4099-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4098-1	SS07	Total/NA	Solid	8015B NM	46509
MB 880-46509/1-A	Method Blank	Total/NA	Solid	8015B NM	46509
LCS 880-46509/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46509
LCSD 880-46509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46509
890-4099-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	46509
890-4099-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46509
Analysis Batch: 46663					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

ep тур 890-4098-1 SS07 Total/NA Solid 8015 NM

HPLC/IC

Г

Leach Batch: 46462

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4098-1	SS07	Soluble	Solid	DI Leach	
MB 880-46462/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46462/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46462/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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HPLC/IC (Continued)

Leach Batch: 46462 (Continued)

Lab Sample ID 890-4098-1 MS 890-4098-1 MSD	Client Sample ID SS07 SS07	Prep Type Soluble Soluble	Matrix Solid Solid	Method DI Leach DI Leach	Prep Batch
Analysis Batch: 46553		Ргер Туре	Matrix	Method	Prep Batch
890-4098-1	SS07	Soluble	Solid	300.0	46462

I	890-4098-1	SS07	Soluble	Solid	300.0
	MB 880-46462/1-A	Method Blank	Soluble	Solid	300.0
	LCS 880-46462/2-A	Lab Control Sample	Soluble	Solid	300.0
	LCSD 880-46462/3-A	Lab Control Sample Dup	Soluble	Solid	300.0
	890-4098-1 MS	SS07	Soluble	Solid	300.0
l	890-4098-1 MSD	SS07	Soluble	Solid	300.0

Job ID: 890-4098-1 SDG: Lea County NM

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Project/Site: EVGSAU Sat 6 Mobile Tester

Matrix: Solid

Job ID: 890-4098-1 SDG: Lea County NM

Lab Sample ID: 890-4098-1

Client Sample ID: SS07 Date Collected: 02/08/23 13:00

Client: Ensolum

Date Received: 02/13/23 15:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46342	02/14/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46568	02/17/23 18:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46745	02/20/23 14:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46663	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46509	02/16/23 09:47	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 18:10	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46462	02/15/23 15:39	KS	EET MID
Soluble	Analysis	300.0		1			46553	02/16/23 23:59	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Job ID: 890-4098-1
SDG: Lea County NM

Laboratory: Eurofins Midland

Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

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

uthority	Pr	ogram	Identification Number	Expiration Date
exas	NE	ELAP	T104704400-22-25	06-30-23
• •		ut the laboratory is not certil	fied by the governing authority. This list ma	ay include analytes for w
the agency does not o	ter certification.			
Analysis Method	Prep Method	Matrix	Analyte	
8 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Job ID: 890-4098-1 SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	erences: STM International Environmental Protection Agency		
	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Editi	on November 1986 And Its Updates	
	= TestAmerica Laboratories, Standard Operating Procedure	···	
Laboratory R			
EET MID	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Laboratory References:

Eurofins Carlsbad

Client: Ensolum

Sample Summary

Project/Site: EVGSAU Sat 6 Mobile Tester

Job ID: 890-4098-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4098-1	SS07	Solid	02/08/23 13:00	02/13/23 15:02	0.5	4
						5
						8
						9

1		Environment Testing Xenco	Midland, TX (Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paco TX (915) 585-3443 Lubbock TX (806) 784-1296	onio, TX (210) 509-3334	Work Order No:	er No:
	- Active		EL Paso, TX Hobbs, NM	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1295 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	ck, 1X (806) 794-1295 ad, NM (575) 988-3199		
						Www.xelluc.com	- ayc
Company Name: Er	Ensolum LLC		Company Name:	Ensolum, LLC		Program: UST/PST PRP Brownfields RRC	Brownfields RRC Superfund
	601 N Marienfeld St Suite 400	te 400	Address:	601 N Marienfeld St Suite 400	t Suite 400	State of Project:	
e ZIP:	Midland, TX 79701		City, State ZIP:	Midland, TX 79701		Reporting: Level II Level III PST/UST TRRP	
	817-683-2503	Emai	Email: kjennings@ensolum.com, dnikanorov@ensolum.com	n.com, dnikanorov	@ensolum.com	Deliverables: EDD	ADaPT Other:
Name:	EVGSAU Sat 6 Mobile Tester		Turn Around		ANALYSIS REC	REQUEST	Preservative Codes
	03D2057072	Rou	Rush Code				None: NO DI Water: H ₂ O
Project Location:	Lea County, NM	M Due Date:					Cool: Cool MeOH: Me
Sampler's Name:	Dmitry Nikanorov		TAT starts the day received by				HCL: HC HNO3: HN
PO#			L		-	-	H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Fres No Wet Ice:	No nete	0)			H ₃ PO ₄ : HP
Samples Received Intact:	(Yes) No	Thermometer ID:	3	300.			NaHSO4: NABIS
Cooler Custody Seals:	Yes No (NIA C	Correction Factor:	-0.2.P	PA:			Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes NO NA T	Temperature Reading:	r'v	_	890-4098 Chain (hain of Custody	Zn Acetate+NaUH: Zn
Sample Identification	Matrix	Date Time Sampled Sampled	Depth Comp Cont	CHLORIC TPH (801 BTEX (80			Sample Comments
SS07	S	2/8/2023 13:00	0.5' Grab 1	× × ×			
							Incident Number
	_						
Total 200.7 / 6010	200.8 / 6020:	BRCRA 13P	13PPM Texas 11 AI S	Al Sb As Ba Be B C	Cd Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se Ag S	SiO ₂ Na Sr TI Sn U V Zn
Circle Method(s) and	Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: BRCRA	Sb As Ba Be Co	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	MoNiSeAgTIU Hg:	Hg: 1631 / 245.1 / 7470 / 7471
Notice: Signature of this docu of service, Eurofins Xenco w of Eurofins Xenco. A minimu	ument and relinquishment of ill be llable only for the cost o m charge of \$85.00 will be ap	samples constitutes a valid p of samples and shall not assu- plied to each project and a c	surchase order from client co une any responsibility for an harge of \$5 for each sample	impany to Eurofins Xenco y losses or expenses incu submitted to Eurofins Xe	, its affiliates and subcontractors. I urred by the client if such losses are nco, but not analyzed. These terms '	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	ns Itrol otiated.
Relinquished by: (Signature)	Signature)	Received by: (Signature)	ature)	Date/Time	Relinquished by: (Signature)	ure) Received by: (Signature)	ignature) Date/Time
	AM	and a S	M	2-13.23 150	Ű		
n c	-			0			

2/20/2023

Chain of Custody

Page 138 of 223

Job Number: 890-4098-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4098 List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4098 List Number: 2 Creator: Rodriguez, Leticia

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

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

14

Job Number: 890-4098-1

SDG Number: Lea County NM List Source: Eurofins Midland

List Creation: 02/15/23 12:16 PM



November 22, 2023

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EVGSAU SAT 6 MOBILE TESTER

Enclosed are the results of analyses for samples received by the laboratory on 11/20/23 16:09.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	11/20/2023	Sampling Date:	11/17/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS01 @ 1' (H236321-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 \$	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	102 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	0						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	11/20/2023	Sampling Date:	11/17/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS02 @ 1' (H236321-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	11/20/2023	Sampling Date:	11/17/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS03 @ 1' (H236321-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/17/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS04 @ 1' (H236321-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/17/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS05 @ 1' (H236321-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	GC-NC
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	140	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	1440	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	328	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	153	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/17/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS06 @ 1' (H236321-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	193	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	107	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/20/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS12 @ 1' (H236321-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	14.6	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	22.5	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 :	% 49.1-14	8						

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*=Accredited Analyte

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/20/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS13 @ 1' (H236321-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 :	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/20/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS14 @ 1' (H236321-09)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	104	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/20/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS15 @ 1' (H236321-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/20/2023
Reported:	11/22/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: SW01 @ 0-1' (H236321-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.98	98.9	2.00	0.340	
Toluene*	<0.050	0.050	11/21/2023	ND	2.07	103	2.00	0.873	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.08	104	2.00	0.856	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.26	104	6.00	1.04	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	198	99.1	200	1.23	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	217	109	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.0	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 1/2/2024 1:15:12 PM

Relinquished By: service. In no event shall Cardinal be liable for incidental or conse Sampler -Relinguished By: analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless PLEASE NOTE: Liability Delivered By: Sampler Name: Project Location: City: H236321 Project Name: Project #: Phone #: Project Managery FOR LAB USE ONLY Address: Company Name: Lab I.D. -UPS 0 WP 0 - Bus - Other: (Circle One) out of or related to the 07 101 East Marland, Hobbs, NM 88240 33 1cl (575) 393-2326 FAX (575) 393-2476 W Sample I.D. oratories RDIN 0 CYM R Observed Temp. °C Corrected Temp. °C Time: Date: Time: Date: intal damages, including without limitation, business interr Fax #: Project Owner: ↑ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com 6 (MOD) 6 State: 10/11 Zip: 8770 +WC 03,454 Received By Received By: 0 L (G)RAB OR (C)OMP 100 Li ↓ # CONTAINERS Cool Intact GROUNDWATER Sample Condition WASTEWATER made in writing and received by Cardinal within 30 days after completion of the applicable MATRIX SOIL OIL ptions, loss of use, or loss of profits incurred by client, its subsidiaries SLUDGE State: OTHER resed upon any of the above Fax #: City: Phone #: Attn: P.O. #: Company: Address: ACID/BASE: PRESERV. CHECKED BY: ICE / COOL (Initials) OTHER BILL TO Zip: DATE 17425 SAMPLING 0 Thermometer ID #140 Correction Factor 0°C Turnaround Time: All Results are emailed. Please provide Email address: Verbal Result: REMARKS: UNSOLULIALONAL 224 1200 422 430 240 202 1030 IDIE 9101 TIME CHAIN-OF-CUSTODY AND ANALYSIS REQUEST TOP THE Ð Ves Standard Rush d Q No 0 05 • DØ. Add'l Phone #: ANALYSIS falcometer are solum an Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Yes No Orrected Temp. °C REQUEST Corrected Temp. °C

Released to Imaging: 2/21/2024 9:22:18 AM

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Received by OCD: 1/2/2024 1:15:12 PM

ARDINAL aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Time: Time: Image: Condition CHECKED BY: Turnaround Time: Standard Bacteria (only) Samp Sampler - UPS Bus Other: Corrected Temp. °C Pes Yes (Initials) Thermometer ID #140 Cool Inter Over the second temp. °C Image: Pes Yes Image: Pes No No	By Add Date: Received By: Add By: Received B	any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable grithout limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries. Cardinal regar, and whether such claim is based upon any of the above stated reasons or otherwise.			X X X Shhi 200/11	ASE: DOL	MATRIX PRESERV. SAMPLING	= Juli currier Falcomála Fax #:	Project Location: (S2,]0,002, -(b3,45461) Phone #:	Project #: USD2 057 072 Project Owner: Maugerin City:	N Zip:4420	Address: U22 Wat'l Parks HWW Company:		Company Name: CASOLUM LO BILL TO ANALYSIS REOLIE
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ☐ Yes Yes Observed Temp. °C	ddress: Halmnotocounsdum							71					- L.	YSIS REQUEST

Released to Imaging: 2/21/2024 9:22:18 AM

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November 21, 2023

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EVGSAU SAT 6 MOBILE TESTER

Enclosed are the results of analyses for samples received by the laboratory on 11/20/23 16:09.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/20/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS08 @ 1' (H236322-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/21/2023	ND	2.15	108	2.00	0.285	
Toluene*	<0.050	0.050	11/21/2023	ND	2.11	106	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.09	104	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.56	109	6.00	1.29	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	199	99.4	200	1.03	
DRO >C10-C28*	24.0	10.0	11/21/2023	ND	180	90.1	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.3	% 49.1-14	0						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/20/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS09 @ 1' (H236322-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	2.15	108	2.00	0.285	
Toluene*	<0.050	0.050	11/21/2023	ND	2.11	106	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.09	104	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.56	109	6.00	1.29	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	199	99.4	200	1.03	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	180	90.1	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.1	% 49.1-14	8						

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/20/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS10 @ 1' (H236322-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	2.15	108	2.00	0.285	
Toluene*	<0.050	0.050	11/21/2023	ND	2.11	106	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.09	104	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.56	109	6.00	1.29	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	199	99.4	200	1.03	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	180	90.1	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	73.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.9	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/20/2023	Sampling Date:	11/20/2023
Reported:	11/21/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	(32.79002'-103'45487		

Sample ID: FS11 @ 1' (H236322-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	2.15	108	2.00	0.285	
Toluene*	<0.050	0.050	11/21/2023	ND	2.11	106	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.09	104	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.56	109	6.00	1.29	
Total BTEX	<0.300	0.300	11/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/21/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	199	99.4	200	1.03	
DRO >C10-C28*	28.7	10.0	11/21/2023	ND	180	90.1	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 1/2/2024 1:15:12 PM

Sampler - UPS - Bus - Other: Relinquished Delivered By: (Chrcle One) analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wind arising whether based in contract or tort, snaw we mines to use the applicable artificities of successors arising out of or related to the cause whatsoever shall be deemed without limitation, business interruptions, loss of use, or loss of profits incurred by cleant, and the applicable artificities of successors arising out of or related to the cause whatsoever shall be deemed without limitation, business interruptions, loss of use, or loss of profits incurred by cleant, its subsidiaries, article of the applicable of the applicable of the applicable of the applicable articles of successors arising out of or related to the near consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the subsidiaries of the applicable of the applicabl LEASE NOTE: Liability TOWNPOOD R S.4 0771172. Sampler Name: Project Location: Project Name: Phone #: City: Project #: tagezz FOR LAB USE ONLY Address: -ab I.D. Project Manager: Company Name: By: R Nr Sample I.D. 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 orator Corrected Temp. °C Observed Temp. °C 2 Time: 16:04 Time: Date: 1ate: 10-23 Fax #: Project Owner: ↑ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com State:/// 3 DS 1 (VZip: Received By Received By: 6 G)RAB OR (C)OMP 00 0 # CONTAINERS Sample Condition Cool/ Intact Yes Yes No No No GROUNDWATER WASTEWATER 10 × SOIL MATRIX OIL SLUDGE OTHER State: Fax #: Phone #: City: P.O. #: Attn: Address: Company: ACID/BASE PRESER/ CHECKED BY: ICE / COOL (initials) OTHER BILL Zip: 20/23 DATE 70 SAMPLING REMARKS: Verbal Kesult: Turnaround Time: Thermometer ID #140 Correction Factor 0°C All Results are emailed. Please provide Email address: 1405 1476 415 1410 TIME CHAIN-OF-CUSTODY AND ANALYSIS REQUES When will a most man □ Yes 0 Standard Rush E orides No No 40 ÞΟ Add'l Phone #: ANALYSIS Cool Intact Bacteria (only) Sample Condition Cool Intact Observed Temp. -4 falcoma REQUEST Corrected Temp. °C . SUDA റ് MMA Page 7 of 7 Released to Imaging: 2/21/2024 9:22:18 AM



November 28, 2023

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EVGSAU SAT 6 MOBILE TESTER

Enclosed are the results of analyses for samples received by the laboratory on 11/22/23 13:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/22/2023	Sampling Date:	11/21/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7400,-103.4551		

Sample ID: FS 07 1' (H236378-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	11/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2023	ND	214	107	200	3.02	
DRO >C10-C28*	181	10.0	11/23/2023	ND	219	110	200	4.84	
EXT DRO >C28-C36	43.9	10.0	11/23/2023	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/22/2023	Sampling Date:	11/21/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7400,-103.4551		

Sample ID: FS 16 1' (H236378-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	11/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2023	ND	214	107	200	3.02	
DRO >C10-C28*	<10.0	10.0	11/23/2023	ND	219	110	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2023	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/22/2023	Sampling Date:	11/21/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7400,-103.4551		

Sample ID: SW 02 0-1' (H236378-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	294	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	59.5	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	64.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7400,-103.4551		

Sample ID: FS 17 1' (H236378-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	52.0	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7400,-103.4551		

Sample ID: FS 18 1' (H236378-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	11/27/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	16.9	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7400,-103.4551		

Sample ID: SW 03 0-1' (H236378-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/27/2023	ND	416	104	400	0.00	QR-03
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	287	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	81.5	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7400,-103.4551		

Sample ID: FS 09A 1.25' (H236378-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	11/27/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	266	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	48.0	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	63.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK 32.7400,-103.4551		

Sample ID: FS 10A 1.25' (H236378-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	11/27/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	159	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	27.6	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 1/2/2024 1:15:12 PM

Page 11 of 11

Page 173 of 223



November 28, 2023

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EVGSAU SAT 6 MOBILE TESTER

Enclosed are the results of analyses for samples received by the laboratory on 11/27/23 15:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/27/2023	Sampling Date:	11/27/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS 19 1.5' (H236387-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2023	ND	1.83	91.5	2.00	12.9	
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8	
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1	
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	11/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	27.3	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/27/2023	Sampling Date:	11/27/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS 20 1.5' (H236387-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2023	ND	1.83	91.5	2.00	12.9	
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8	
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1	
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	<10.0	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/27/2023	Sampling Date:	11/27/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS 21 2' (H236387-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2023	ND	1.83	91.5	2.00	12.9	
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8	
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1	
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	83.0	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	10.3	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/27/2023	Sampling Date:	11/27/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS 22 2' (H236387-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2023	ND	1.83	91.5	2.00	12.9	
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8	
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1	
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	<10.0	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/27/2023	Sampling Date:	11/27/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: SW04 0-2' (H236387-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2023	ND	1.83	91.5	2.00	12.9	
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8	
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1	
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	455	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	97.2	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/27/2023	Sampling Date:	11/27/2023
Reported:	11/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS 06A 1' (H236387-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2023	ND	1.83	91.5	2.00	12.9	
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8	
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1	
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	11/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	22.8	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	55.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Sampler - UPS - Bus - Other: rcrow-oug K 3.2 10/07/21	Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinafts analyses. All claims including those for negligence a service. In no event shall Cordinal be finable for incide affiliates or successors arising sut of or related to the Relinquished By;	6 FS (le	22.54 E	N IS	a FSZ	Holdwaar Lab I.D. Sample I.D.			n: NO	EVG	Project #: 030265	Phone #: 120-384	18	Address: 3122	Project Manager:	101 East Mart (575) 393-23 Company Name: Ensolum, LLC	Labo
	Corrected Tomp. °C 5. 12 Sample Condition Corrected Tomp. °C 2 Yes Yes T Cardinal cannot accent worked charges	Time: 5:42 DALL Date: Received By: Time:	Indefity and client's exclusive remeaby for any claim arising whether based and any other cause whateover shall be deemed waived unless made in farted or consequential damagas, including without fimitalion, business inte e performance of services hereunder by Carchael, regardless of whether is Dates: D	blea 11 VV	2 <	2		(G)RAB OR (C)OMF CONTAINERS GROUNDWATER WASTEWATER SOIL	-	I THY W	EC	SAU SAT Le Mobile J	7072 Project Owner: Maverich		State: NM Zip: 8823	Navisnal Parks they	ve Gle	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC	oratories
communities. Friease ermail changes to celey teene@cardinallabsnm.com	Ondition CHECKED BY: Turnaround Time: S face (Initfals) Thermometer ID #113 R Ves Correction Fector - 0.5°C R	All Results are emailed.		V V 102 V V	1222			DIL SLUDGE DTHER : CID/BASE: CE / COOL DTHER :	MATRIX PRESERV SAMPLING	Fax #	荣				Co Attm:	Company:	OF THE		CHAIN-OF-C
	Standard Bacteria (only) Sample Condition Rush Cool Infact Observed Temp. °C 74 hys Ves Ves	i <u>ves</u> El No Add") Phone #: iled. Please provide Email addreas: Densolum. Com J the Umata @ ensolum.com						TPH								- 11	ANALYSIS REQUEST	AFE : 0600 0600 2754	F-CUSTODY AND ANALYSIS REQUEST



December 01, 2023

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: EVGSAU SAT 6 MOBILE TESTER

Enclosed are the results of analyses for samples received by the laboratory on 11/28/23 16:41.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/21/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS05A 1' (H236408-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.86	92.8	2.00	5.77	
Toluene*	<0.050	0.050	11/29/2023	ND	1.96	97.9	2.00	4.74	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.98	99.0	2.00	5.32	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.02	100	6.00	4.84	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	66.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS06B 1.5' (H236408-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.86	92.8	2.00	5.77	
Toluene*	<0.050	0.050	11/29/2023	ND	1.96	97.9	2.00	4.74	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.98	99.0	2.00	5.32	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.02	100	6.00	4.84	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	61.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	54.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS07A 1.5' (H236408-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.86	92.8	2.00	5.77	
Toluene*	<0.050	0.050	11/29/2023	ND	1.96	97.9	2.00	4.74	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.98	99.0	2.00	5.32	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.02	100	6.00	4.84	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	69.5	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	82.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS09B 1.5' (H236408-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.86	92.8	2.00	5.77	
Toluene*	<0.050	0.050	11/29/2023	ND	1.96	97.9	2.00	4.74	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.98	99.0	2.00	5.32	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.02	100	6.00	4.84	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	72.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS10B 1.5' (H236408-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.82	91.0	2.00	7.67	
Toluene*	<0.050	0.050	11/29/2023	ND	1.85	92.6	2.00	7.97	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.86	93.0	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.52	91.9	6.00	7.82	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	27.8	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	68.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS16A 1.5' (H236408-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.82	91.0	2.00	7.67	
Toluene*	<0.050	0.050	11/29/2023	ND	1.85	92.6	2.00	7.97	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.86	93.0	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.52	91.9	6.00	7.82	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS18A 1.5' (H236408-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.82	91.0	2.00	7.67	
Toluene*	<0.050	0.050	11/29/2023	ND	1.85	92.6	2.00	7.97	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.86	93.0	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.52	91.9	6.00	7.82	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS19A 2' (H236408-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.82	91.0	2.00	7.67	
Toluene*	<0.050	0.050	11/29/2023	ND	1.85	92.6	2.00	7.97	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.86	93.0	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.52	91.9	6.00	7.82	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	62.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	55.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: FS23 1' (H236408-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.82	91.0	2.00	7.67	
Toluene*	<0.050	0.050	11/29/2023	ND	1.85	92.6	2.00	7.97	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.86	93.0	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.52	91.9	6.00	7.82	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	11.8	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	70.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: SW02A 0-1' (H236408-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.82	91.0	2.00	7.67	
Toluene*	<0.050	0.050	11/29/2023	ND	1.85	92.6	2.00	7.97	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.86	93.0	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.52	91.9	6.00	7.82	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	24.5	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	65.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	59.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: SW03A 0-1.5' (H236408-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	2.05	102	2.00	6.69	
Toluene*	<0.050	0.050	11/29/2023	ND	2.01	101	2.00	7.00	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.98	99.0	2.00	7.14	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.39	106	6.00	6.25	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	84.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/28/2023	Sampling Date:	11/28/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	EVGSAU SAT 6 MOBILE TESTER	Sampling Condition:	Cool & Intact
Project Number:	03D2057072	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK 32.7900,-103.4551		

Sample ID: SW04A 0-2' (H236408-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	2.05	102	2.00	6.69	
Toluene*	<0.050	0.050	11/29/2023	ND	2.01	101	2.00	7.00	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.98	99.0	2.00	7.14	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.39	106	6.00	6.25	
Total BTEX	<0.300	0.300	11/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/29/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	196	97.8	200	0.508	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	181	90.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					
Surrogate: 1-Chlorooctane	81.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.1	% 49.1-14	8						

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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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praone ** 6 3	U	Project Owner:	E Minner ich	City:		Alexandra (anglanga	
1	EVGSAUS	not la Mab	bile Tester	State: Zip:	de la compe		99 - J.
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PLEASE NOTE: Liability and	Damages, Cardinal's liability and cliu a more for negligence and any other	ent's exclusive remedy for an cause whatsoever shall be de	W Interface of the second seco	fort shall be limited to the amount pa eceived by Cardinal within 10 days att	id by the client for the or completion of the applicable		
service. In no event shall Can service. In no event shall Can	s including where the fields for incidential or conse it shall Cardinal be fields for incidential or conse arrs arising out of or related to the performance	quental damages, including v of services hereunder by Ca	proposes. All claims instructions were transformed to incidential or consequential dimagnes, including without fimilation, business interruptions, loss of trace, or loss of profits incurred by client, its eutocidantes, services. In no executions and/or a state of the above stated reasons or otherwise.	is of use, or loss of profils incurred by based upon any of the above staled re	client, its subsidiaries, asona ar otherwise.		
Relinquished By:		11-28-23	DAA		All Results are em	All Results are emailed. Please provide Email address:	Add'l Phone #: le Email address:
Jul	2	Time: 6-UI	Alin		ache	Densolum.com	On the second
Relinquished By:		Date: Time:	Received By:			- MINCONS	
Delivered By: (Circle One) Sempler - UPS - Bus - Other:		Observed Temp. °C	1./02 Sample Condition Coop Infact HIUD G Yes G Yes	n CHECKED BY:	Turnaround Time:	Standard	Bacteria (only) Sample Condition

Received by OCD: 1/2/2024 1:15:12 PM

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PLEASE NOTE: Liability and binnages. Cardinal's liability and client's exclusive remarks for any claim arising whether based in contract or tot, shall be limited to the amount paid by the client tor the gardyease. All claims including those for negligence and any doter cause winthcover chall be demonstrated whether unders much paid by cardinal and exclusive the performance of sarvyease heretunder by Cardinal, regardines of whether such claims is based upon any of the above stated reasons ar otherwise. anilates or successors arising such or religionce and any other cause winthcover colds and transmisming without findian. Including without findian, business intermytion, less of true, or how of possible intermets of sarvyease heretunder by Cardinal, regardines of whether such claims is based upon any of the above stated freescore ar otherwise. anilates or successors arising such or religion to the performance of sarvyease heretunder by Cardinal, regardines of whether such claims is based upon any of the above stated freescore ar otherwise. Reclinquished By: Date: Received By: Verbal Results are emand Aug. (Corrected By: Relinquished By: (Cinctle One) Deserveed Temp. °C 4. (PC Sample Condition CHECKED BY: Delivered By: (Cinctle One) Os serveed Temp. °C 4. (PC Sample Condition CHECKED BY: Turnaround Time: Sampler - UPS - Bus - Other: Corrected Temp. °C 4. (PC Sample Condition CHECKED BY: Turnaround Time: Corrected Temp. °C 4. (PC Cool infaget Corrected Temp. °C 4. (PC Cool	2 2	- ČÇ	FOR LAB USE ONLY	Sampler Name:	project I ocation: 31	project Name: TEVG	project #: (13040	Phone #: 770-38	city: Parthad	5	project Manager: A	(575) 333-23 Company Name: Ensolum, LLC	101 Eas
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s exclusive remerly for any claim analog whether based in contract or tort shall be limited to the amount as whether shall be deemed walked wiles made in writing and received by Cardinal english of data in the shared by Cardinal regardless of windher such dalm is based upon any of the above shaded Date: Received By: Time: Court of Tom p. °C 4. / °C Sample Condition CHECKED BY: Time: Trans. Complete Condition CHECKED BY: Time: Court of Tom p. °C 4. / °C Sample Condition CHECKED BY: Time: No	4 (GRAB OR (C)OMF CONTAINERS GROUNDWATER WASTEWATER SOIL				te Testr	MANCE, U	N	Zip: 8822U	Inn			38 L
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APPENDIX E

Reclamation Plan

Maverick Permian, LLC Closure Request EVGSAU Sat 6 Mobile Tester

RECLAMATION PLAN

Portions of the release occurred off pad in the pasture and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area that was impacted by the release per 19.15.29.13.D (1)) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 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 includes: Loam, stony silt loam, and gravelly loam;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: Loam (L) seed mixture as described in the NMSLO *Revegetation Guidelines Handbook for Southeastern New Mexico*, dated 2018;
- The seed mixture will be distributed with etiher a push broadcaster seed spreader, tractor operated broadcast seed spreader, and/or drill seeding method(s);
- Application of the seed mixutre will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distrbution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- If necessary, erosion control management will potentially include:
 - The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Seeding is anticipated to be completed in the Spring or Fall when temperatures and precipitation is 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 adhered to for this Site;
- Annual inspections (at a minimum), will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;

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 F

NMOCD Notifications

Released to Imaging: 2/21/2024 9:22:18 AM

From:	Wells, Shelly, EMNRD
To:	Aimee Cole
Cc:	Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/13/2023)
Date:	Wednesday, November 8, 2023 2:51:24 PM
Attachments:	image001.png image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Good afternoon Aimee,

The OCD has received your notification. Next time notification is sent to OCD, please include the time sampling is anticipated to start at each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

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

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, November 8, 2023 3:41 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/13/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following site the week of November 13, 2023.

- SEMU Permian #37 / NAPP2305453661
 - Sampling Dates: 11/13/2023 11/14/2023
- EVGSAU Sat 6 Mobile Tester / NAPP2304744550
 - Sampling Dates: 11/15/2023 11/17/2023

Thank you,



Aimee Cole Senior Managing Scientist 720-384-7365 Ensolum, LLC

From: To: Cc: Subject: Date: Attachments:	Wells, Shelly, EMNRD Aimee Cole Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD RE: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/20/2023) Wednesday, November 15, 2023 12:19:25 PM image001.png image002.png image003.png

[**EXTERNAL EMAIL**]

Hi Aimee,

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

Thank you,

Shelly

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

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, November 15, 2023 1:04 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/20/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following site the week of November 20, 2023.

- EVGSAU Sat 6 Mobile Tester / NAPP2304744550
 - Sampling Dates: 11/20/2023 11/22/2023 (between 9:00 am and 3:00 pm MT)

Thank you,

Aimee Cole



•



Senior Managing Scientist 720-384-7365 Ensolum, LLC

From:	<u>Wells, Shelly, EMNRD</u>
To:	<u>Aimee Cole</u>
Cc:	<u>Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD</u>
Subject:	RE: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/27/2023)
Date:	Wednesday, November 22, 2023 12:19:37 PM
Attachments:	image001.png

****EXTERNAL EMAIL****]

Hi Aimee,

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

Thank you,

Shelly

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

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, November 22, 2023 12:43 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick Permian, LLC - Sampling Notification (Week of 11/27/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of November 27, 2023.

- EVGSAU Sat 6 Mobile Tester / NAPP2304744550
 - Sampling Dates: 11/27/2023 11/28/2023 (between 9:00 am and 3:00 pm MT)
- Elvis Injection Line / NAPP2213642290
 - Sampling Dates: 11/29/2023 12/1/2023 (between 9:00 am and 3:00 pm MT)

Thank you,



Aimee Cole Senior Managing Scientist 720-384-7365 Ensolum, LLC



APPENDIX G

Form C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NAPP2304744550
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC	OGRID: 331199
Contact Name: Bryce Wagoner	Contact Telephone: 928-241-1862
Contact email: Bryce.Wagoner@mavresources.com	Incident # (assigned by OCD) NAPP2304744550
Contact mailing address: 1410 NW County Road Hobbs, NM 88240	

Location of Release Source

Latitude 32.7900_

Longitude -103.4551 (NAD 83 in decimal degrees to 5 decimal places)

Site Name EVGSAU Sat 6 Mobile Tester	Site Type
Date Release Discovered February 4, 2023	API# (if applicable) 30-025-20330

Unit Letter	Section	Township	Range	County
Ι	33	17S	35E	Lea

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Materia	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 3 bbls	Volume Recovered (bbls) 0 bbls
Produced Water	Volume Released (bbls) 17 bbls	Volume Recovered (bbls) 16 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a gasket failure on a mobile tester. The release occurred on and off pad. The source of the release has been stopped and the impacted area has been secured.

Page	2

Oil Conservation Division

Incident ID	NAPP2304744550
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \square The source of the release has been stopped.

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

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name:Bryce Wagoner	Title:Permian HSE Specialist II
Signature:	Date:2/09/2023
email:Bryce.Wagoner@mavresources.com	Telephone:928-241-1862
OCD Only Received by: Jocelyn Harimon	Date:02/16/2023

	Pooled Fluids on the Surface									
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries *edges of pool where depth is 0. don't count shared boundaries	Oil-Water Ratio (%)	Pooled Area (ft ²)	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	75.0	45.0	1.0	4.0	0.20	3375.0	0.0	12.5	2.50	10.01
Rectangle B					0.01	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Total Volume (bbls): 12.52 2.50 10.01									

	Subsurface Fluids									
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation	Oil-Water Ratio (%)	Area (ft²)	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	75.0	35.0	2.0	0.1	0.20	2625.0	77.9	7.8	1.56	6.2
Rectangle B						0.0	0.0	0.0	0.00	0.0
Rectangle C						0.0	0.0	0.0	0.00	0.0
Rectangle D						0.0	0.0	0.0	0.00	0.0
Rectangle E						0.0	0.0	0.0	0.00	0.0
Rectangle F						0.0	0.0	0.0	0.00	0.0
Rectangle G						0.0	0.0	0.0	0.00	0.0
Rectangle H						0.0	0.0	0.0	0.00	0.0
Rectangle I						0.0	0.0	0.0	0.00	0.0
Rectangle J						0.0	0.0	0.0	0.00	0.0
	Total Volume (bbls): 7.79 1.56 6.23									

TOTAL RELEASE VOLUME (bbls): 20.3

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1111 Bagby Street Suite 1600	Action Number:
Houston, TX 77002	187209
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	2/20/2023

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Action 187209

Received by OCD: 1/2/2024 1:15:12 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 213 of 2.	23
Incident ID	NAPP2304744550	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	5 <u>1-100</u> (ft bgs)			
Did this release impact groundwater or surface water?				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	X Yes 🗌 No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No			
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No			
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No			
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No			
Did the release impact areas not on an exploration, development, production, or storage site?	🔀 Yes 🗌 No			

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

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

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

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

Page 3

eceived by OCD: 1/2/20	024 1:15:12 PM State of New Mexi			Page 214 of 2.
			Incident ID	NAPP2304744550
age 4 Oil Conservation D	/1S10n	District RP		
			Facility ID	
			Application ID	
public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: <u>Bryce</u> Signature:	Non-H-	by the OCD does not relieve the ose a threat to groundwater, surface	operator of liability sh ce water, human health iance with any other fe	ould their operations have or the environment. In
OCD Only				
Received by:		Date:		

Page 6

Incident ID	NAPP2304744550
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following	items must be included in the closure report.	
\square A scaled site and sampling diagram as described in 19.15.29.	11 NMAC	
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. Title:Permian HSE Specialist II Date:12/15/2023	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by: <u>Scott Rodgers</u>	Date: 02/21/2024	
Printed Name: Scott Rodgers	Title: Environmental Specialist Adv.	

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

District III

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

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

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

QUESTIONS

Action 298893

QUESTIONS		
Operator:	OGRID:	
Maverick Permian LLC	331199	
1000 Main Street, Suite 2900	Action Number:	
Houston, TX 77002	298893	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2304744550	
Incident Name	NAPP2304744550 EVGSAU SAT 6 MOBILE TESTER @ 30-025-20330	
Incident Type	Other	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-025-20330] EAST VACUUM (GSA) UNIT #402	

Location of Release Source

Please answer all the questions in this group.	
Site Name	EVGSAU SAT 6 MOBILE TESTER
Date Release Discovered	02/04/2023
Surface Owner	State

Incident Details

Please answer all the questions in this group.		
Incident Type	Other	
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 Gasket Crude Oil Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.	
Produced Water Released (bbls) Details	Cause: Equipment Failure Gasket Produced Water Released: 17 BBL Recovered: 16 BBL Lost: 1 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.	

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

District III

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

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

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

QUESTIONS, Page 2

Action 298893

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QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	298893
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	Resnonse

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.
	liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of sted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 01/02/2024

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

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QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	298893
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
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 200 and 300 (ft.)
Any other fresh water well or spring	Between 200 and 300 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between ½ and 1 (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

	nten ennevel with this submission	X
1 0	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	528
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	93.3
GRO+DRO	(EPA SW-846 Method 8015M)	83
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	NMAC unless the site characterization report includes complete	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
which includes the anticipated tin	nelines for beginning and completing the remediation.	eu enorts at remediation, the report must molidue a proposed remediation plan in accordance with 13.15.25.12 Nin
	nelines for beginning and completing the remediation. Ill the remediation commence	11/17/2023
On what estimated date wi		
On what estimated date wi On what date will (or did) th	II the remediation commence	11/17/2023
On what estimated date wi On what date will (or did) th On what date will (or was)	Il the remediation commence he final sampling or liner inspection occur	11/17/2023 11/28/2023
On what estimated date wi On what date will (or did) th On what date will (or was) What is the estimated surfa	II the remediation commence he final sampling or liner inspection occur the remediation complete(d)	11/17/2023 11/28/2023 11/28/2023
On what estimated date wi On what date will (or did) th On what date will (or was) What is the estimated surfate What is the estimated volue	III the remediation commence he final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed	11/17/2023 11/28/2023 11/28/2023 4500
On what estimated date wi On what date will (or did) th On what date will (or was) What is the estimated surfa What is the estimated volum What is the estimated surfa	III the remediation commence he final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed me (in cubic yards) that will be reclaimed	11/17/2023 11/28/2023 11/28/2023 4500 370

sp 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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Mayerick Permian LLC

Houston, TX 77002

1000 Main Street, Suite 2900

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

Action Type:

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QUESTIONS (continued) OGRID: 331199 Action Number: 298893

[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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. Name: Aimee Cole I hereby agree and sign off to the above statement Email: acole@ensolum.com

Date: 01/02/2024 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 (continued)	
Operator: Maverick Permian LLC	OGRID: 331199
1000 Main Street, Suite 2900 Houston, TX 77002	Action Number: 298893
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	

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 (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	298893
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	298950
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/17/2023
What was the (estimated) number of samples that were to be gathered	27
What was the sampling surface area in square feet	4500

Remediation Closure Request

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	4500
What was the total volume (cubic yards) remediated	370
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	4500
What was the total volume (in cubic yards) reclaimed	370
Summarize any additional remediation activities not included by answers (above)	Release was remediated to 100/600.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents o
hereby certify that the information given above is true and complete to the best of my o report and/or file certain release notifications and perform corrective actions for relea	knowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by 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

	Name: Aimee Cole
I hereby agree and sign off to the above statement	Email: acole@ensolum.com
	Date: 01/02/2024

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Maverick Permian LLC

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QUESTIONS (continued) OGRID: 331199 1000 Main Street, Suite 2900 Action Number:

298893

[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Action Type:

QUESTIONS

Reclamation Report Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission No

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CONDITIONS

Action 298893

CONDITIONS Operator: OGRID: Maverick Permian LLC 331199 1000 Main Street, Suite 2900 Action Number: Houston, TX 77002 298893 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	2/21/2024