

August 4, 2023

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

Re: Remediation Work Plan EVGSAU 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 the following *Remediation Work Plan* (*Work Plan*) to address impacted soil resulting from a gasket failure at the EVGSAU Sat 6 Mobile Tester (Site). The following *Work Plan* proposes lateral and vertical delineation of the release and excavation of impacted soil.

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. Maverick immediately dispatched a vacuum truck to address standing fluids and approximately 16 bbls of produced water were recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 9, 2023. The release was assigned Incident Number NAPP2304744550.

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 A.

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

INITIAL SITE ASSESSMENT

On February 8, 2023, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Assessment soil samples SS01 through SS03 were collected from a depth of 0.5 feet bgs within the release extent and assessment samples SS04 through SS07 were collected from a depth of 0.5 feet bgs in each cardinal direction outside of the release extent. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach[®] chloride QuanTab[®] test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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 chilled under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics



(GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for assessment soil samples SS01 through 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 release. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.

PROPOSED REMEDIATION WORKPLAN

Based on elevated concentrations of TPH and chloride detected in surface soil within the release extent, Maverick proposes to complete vertical delineation of the release, excavation of impacted soil, and reclamation of the off-pad area. Maverick has applied for and received a Right of Entry Permit (Number RE-6493) from the SLO that is valid until October 28, 2023. No additional cultural resource surveys were completed in connection with this release. A copy of the ROE Request for Remediation form and fully executed ROE Permit, are included in Appendix D.

Vertical Delineation

Maverick will complete vertical delineation of the release extent. Three boreholes will be advanced via hand auger within the release extent to assess the vertical extent of impacted soil. Soil from the boreholes will be field screened at 1-foot intervals for VOCs and chloride. Field screening results and observations for the boreholes will be logged on lithologic/soil sampling logs. Two delineation samples from each borehole will be submitted for laboratory analysis; the sample with the highest field screening result and the sample from the final borehole depth. Final depth of the boreholes will be determined by field screening results indicating compliance with the Site Closure Criteria.

The soil samples will be 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 will be transported chilled under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, TPH-ORO following EPA Method 8015M/D; and chloride following EPA Method 4500.

Excavation

Impacted soil will be excavated from the release area based on the delineation soil sample analytical results. Excavation will proceed laterally and vertically until sidewall and floor samples are compliant with the Site Closure Criteria. Following removal of the impacted soil, 5-point composite confirmation samples will be collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation samples will be submitted for laboratory analysis of BTEX, TPH, and chloride as described above. The impacted soil will be disposed of at a licensed disposal facility. The excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed pasture area will be re-seeded with an approved seed mixture.

Reclamation



Maverick will reclaim the off-pad excavation area according to the requirements of 19.15.29.13.D (1) NMAC, 19.2.100.67 NMAC, and *Revegetation Guidelines Handbook for Southeastern New Mexico* – Version 1-1, authored by the SLO and dated 2018. The excavation will be backfilled with locally sourced caliche and/or topsoil to match surrounding grade. Approximately 4 feet of topsoil will be placed on top of any caliche to support vegetative growth in the disturbed area. The backfilled area will be ripped and reseeded at most two weeks later. Soil in the vicinity of the release will be assessed for the proper application of Table 3 – *Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico*, and a weed-free seed mix listed in the Seed Mixture Table below will be applied:

SEED MIXTURE TABLE

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

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

Erosion control management will include prompt revegetation with mulching and contouring the surface to limit surface water flow. The area will be watered and photographed in landscape view including a timestamp with GPS data in decimal degrees.

Annual inspections (at a minimum) will take place in the pasture area until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring to assess the success of regrowth. If necessary, an additional application of the seed mixture will be applied as well as any erosional control best management practices (BMP) needed to support growth and limit erosion. The inspections will also include monitoring for invasive and noxious species. If present, the species will be identified, inventoried and treated by a licensed contracted herbicide applicator or mechanically removed.

Schedule



Maverick will complete the delineation, excavation, and reclamation activities within 90 days of the date of approval of this *Work Plan* by the NMOCD and SLO. A final report requesting closure will be submitted within 30 days of receipt of final laboratory analytical results. Backfilling of the excavation will be scheduled and communicated to the SLO and NMOCD prior to initiation. Upon completion of revegetation, a copy of the C-103 submitted to the NMOCD will also be submitted to the SLO for final inspection and release.

Maverick believes the scope of work described above meets the requirements of 19.15.29 NMAC and is protective of human health, the environment, and groundwater. As such, Maverick respectfully requests approval of this *Work Plan* for Incident Number NAPP2304744550. The Form C-141 is included in Appendix E.

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

Sincerely, Ensolum, LLC

Sinée Cale

Aimee Cole Senior Managing Scientist

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

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Assessment Soil Sample Locations
- Table 1Soil Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports
- Appendix D ROE Request for Remediation Form and ROE Permit
- Appendix E Form C-141





FIGURES

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TABLES

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	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS EVGSAU Sat 6 Mobile Tester Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table I	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	100	600		
			A	ssessment Soil S	amples	•					
SS01	2/8/2023	0.5	<0.099	25	1,110	20,000	2,810	23,900	6,190		
SS02	2/8/2023	0.5	<0.099	82	736	17,300	2,250	20,300	4,700		
SS03	2/8/2023	0.5	<0.101	28	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	8.6		
SS07	2/8/2023	0.5	<0.002	<0.004	<49.9	<49.9	<49.9	<49.9	114		

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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



APPENDIX A

Referenced Well Records



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

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*UTM location was derived from PLSS - see Help

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

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2213012 WELL #12 WL. 1- P 2213013 WELL #13 WL. 1- P 2213014 WELL #14 WL. 1- P 2213015 WELL #15 WL. 1- P 2213016 WELL #16 WL. 1- P 2213017 WELL #17 WL. 1- P 2213019 WELL #18 WL. 1- P 2213020 WELL #20 WL. 1- P 2213020 WELL #21 WL. 1- P 2213020 WELL #23 WL - 1- P 2213020 WELL #24 WL - 1- P 2213020 WELL #23 WL - 1- P 2213020 WELL #24 WL - 1- P 2213020 WELL #24 WL - 1- P 2213020 WELL #25 WL - 1- P 2213020 WELL #24 WL - 1- P 2213020 WELL #24 WL - 1- P 2213020 WELL #25 WL - 1- P 2213020 WELL #27 WL - 1- P 2213020 WELL #10 FACATION #1 S 2313020 WELL #12 WL - 1- P 2213032 2313020 WELL #12 WL - 1- P <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>							
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3213017 WELL #17 WL -1 - P 3213018 WELL #18 WL -1 - P 3213019 WELL #19 WL -1 - P 3213020 WELL #20 WL -1 - P 3213021 WELL #21 WL -1 - P 3213020 WELL #22 WL -1 - P 3213021 WELL #24 WL -1 - P 3213023 WELL #26 WL -1 - P 3213023 WELL #26 WL -1 - P 3213023 WELL #26 WL -1 - P 3213023 WELL #27 WL -1 - P 3213023 WELL #26 WL -1 - P 3213023 WELL #27 WL -1 - P 3213023 WELL #10 SS -1 - P 3213033 WELL #11 TREATMENT SKID OT -1 - P 3213034 WEL #11 TREATMENT SKID TP -1 - P 3213035 BOOSTER STATION #1 PC -1 - P 3213035 BOOSTER STATION #1 PC -1 - P 3213036 STORAGE TANK #1 (RAW ST -1 - P 3213037 STORAGE TANK #1 (RAW ST -1 - P 3213038 STORAGE TANK #2 (HICH TANK) ST -93213030 TREATMENT VLANT #2							
2212018 WELL #18 WL - 1 - P 2213021 WELL #19 WL - 1 - P 2213020 WELL #20 WL - 1 - P 2213021 WELL #21 WL - 1 - P 2213021 WELL #22 WL - 1 - P 2213022 WELL #23 WL - 1 - P 2213023 WELL #24 WL - 1 - P 2213026 WELL #26 WL - 1 - P 2213027 WELL #26 WL - 1 - P 2213028 WEL #26 WL - 1 - P 2213029 WELL #26 WL - 1 - P 2213029 WELL #27 WL - 1 - P 2213029 WELL #10 SS - 1 - P 2213031 WELL #11 REATMENT SKID OT - 1 - P 2213032 WELL #11 TREATMENT SKID OT - 1 - P 2213033 WELL #11 TREATMENT SKID OT - 1 - P 2213035 BOOSTER STATION #1 PC - 1 - P 2213037 STORAGE TANK #1 PC - 1 - P 2213038 STORAGE TANK #2 (HIGH TANK) ST - 9213030 TREATMENT PLANT #2 ST - 9213030 STORAGE TANK #2 (HIGH TANK) ST - 93213030 TREATMENT PLANT #1 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
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3213024 WELL #24 WL - I - P 3213025 WELL #25 WL - I - P 3213026 WELL #26 WL - I - P 3213027 WELL #27 WL - I - P 3213028 WELL #27 WL - I - P 3213029 WELL #28 WL - I - P 3213029 SAMPLING STATION #1 SS - I - P 3213029 WELL #11 A -PW1 WL - I - P 3213031 WELL #11 TREATMENT SKID OT - I - P 3213032 WELL #11 TREATMENT SKID TP - I - P MERSURE TANENT UNIT PC - I - P STORAGE TANK #1 (RAW ST - I - P MERSURE TANK #1 (RAW ST - I - P STORAGE TANK #1 (RAW ST - I - P STORAGE TANK #1 (RAW ST - I - P STORAGE TANK #1 (RAW ST - I - P STORAGE TANK #1 (RAW ST - I - P STORAGE TANK #1 (RAW ST - I - P Water System Facility ID No. Supplying Facility Name Receiving Facility ID No. TP - 93213030 TREATMENT PLANT #2 ST - 93213030 STORAGE TANK #2 (HIGH TANK) WL - 93213039 DW #1 TP - 93213040 TREATMENT PLANT #1	<u>93213022</u> WELL #22		WL - I - P				
3213025 WELL #25 WL - I - P 3213027 WELL #26 WL - I - P 3213028 WELL #27 WL - I - P 3213028 WELL #27 WL - I - P 3213029 WELL #27 WL - I - P 3213029 WELL #28 WL - I - P 3213031 WELL #11 - PW1 WL - I - P 3213032 WELL #11 REATMENT SKID OT - I - P 3213033 WELL #11 TREATMENT SKID OT - I - P 3213033 WELL #11 REATMENT SKID TP - I - P 3213035 BOOSTER STATION #1 PC - I - P 3213037 PRESSURE TANK #1 (RAW WATER STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 3213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 3213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 3213030 TREATMENT PLANT #2 ST - 93213038 STORAGE TANK #2 (HIGH TANK) ST - 93213030 TREATMENT PLANT #2 ST - 93213030 DIST WL - 93213030 TREATMENT PLANT #2 ST - 93213030 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #1	<u>93213023</u> WELL #23		WL - I - P				
3213026 WELL #26 WL - I - P 3213027 WELL #27 WL - I - P 3213028 WELL #28 WL - I - P 3213029 SAMPLING STATION #1 SS - I - P 3213021 WELL #118 SS - I - P 3213031 WELL #11 A -PW1 WL - I - P 3213033 WELL #11 TREATMENT SKID OT - I - P 3213033 WELL #11 TREATMENT SKID TP - I - P 3213035 BOOSTER STATION #1 PC - I - P 3213037 WELL #11 REATMENT SKID TP - I - P 3213038 BOOSTER STATION #1 PC - I - P PRESSURE TANK #1 PC - I - P Receiving Facility ID No. Receiving Facility Name Supplying Facility ID No. Supplying Facility Name Receiving Facility ID No. Receiving Facility Name TP - 93213030 TREATMENT PLANT #2 ST - 93213030 STORAGE TANK #2 (HIGH TANK) ST - 93213039 DW#1 TP - 93213040 TREATMENT PLANT #1 WL - 93213039 DW#1 TP - 93213030 TREATMENT PLANT #1 WATER System \ Treatment Status Water Purchases Water Purchases Water System \ Population / Availability	<u>93213024</u> WELL #24		WL - I - P				
33213027 WELL #27 WL - I - P 33213028 WELL #28 WL - I - P 33213029 SAMPLING STATION #1 SS - I - P 33213031 WELL #11A - PW1 WL - I - P 33213032 WELL #11 REATMENT SKID OT - I - P 33213032 WELL #11 TREATMENT SKID OT - I - P 33213033 WELL #11 TREATMENT SKID TP - I - P 3213033 WELL #11 TREATMENT SKID PC - I - P 78213034 PRESSURE TANK #1 PC - I - P 923213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 93213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 93213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 93213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - 93213038 STORAGE TANK #2 (HIGH TANK) ST - 93213030 TREATMENT PLANT #2 ST - 93213030 DIST WL - 93213039 DW #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213040 TREATMENT PLANT #1 Water System \ Treatment Status No Water Purchases Water Purchases	<u>93213025</u> WELL #25		WL - I - P				
33213028 WELL #28 WL - I - P 33213029 SAMPLING STATION #1 SS - I - P 33213031 WELL #11A -PW1 WL - I - P 33213032 WELL #11 TREATMENT SKID OT - I - P 33213033 WELL #11 TREATMENT SKID TP - I - P 33213034 WELL #11 TREATMENT SKID TP - I - P 33213036 WELL #11 TREATMENT SKID TP - I - P 33213036 PRESSURE TANK #1 PC - I - P 33213036 PRESSURE TANK #1 (RAW ST - I - P 33213037 STORAGE TANK #1 (RAW ST - I - P 33213037 STORAGE TANK #1 (RAW ST - I - P 33213037 STORAGE TANK #1 (RAW ST - I - P 33213037 STORAGE TANK #1 (RAW ST - I - P 33213037 STORAGE TANK #1 (RAW ST - I - P 33213037 STORAGE TANK #1 (RAW ST - P 3213038 STORAGE TANK #2 (HIGH TANK) ST - 93213030 TREATMENT PLANT #2 ST - 93213030 DIST MUL - 93213039 DW #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #2	<u>93213026</u> WELL #26		WL - I - P				
33213029 SAMPLING STATION #1 SS - I - P 33213031 WELL #11A -PW1 WL - I - P 33213032 WELL #11 R-PW1 WL - I - P 33213033 WELL #11 TREATMENT SKID OT - I - P 33213034 WELL #11 TREATMENT SKID OT - I - P 33213034 WELL #11 TREATMENT SKID TP - I - P 33213035 BOOSTER STATION #1 PC - I - P 33213036 PRESSURE TANK #1 PC - I - P 33213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P Water System Facility Flows Supplying Facility ID No. Supplying Facility Name Receiving Facility ID No. Supplying Facility Name TV = 93213030 TREATMENT PLANT #2 ST - 93213038 STORAGE TANK #2 (HIGH TANK) ST - 93213039 DW #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #1 WL - 93213039 DW #1 TP - 93213030 TREATMENT PLANT #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #2 Water System \ Treatment Status<	93213027 WELL #27		WL - I - P				
3321303 WELL #11A -PW1 WL - I - P 33213032 WELL #11B - PW2 WL - I - P 33213033 WELL #11 TREATMENT SKID OT - I - P 33213034 WELL #11 TREATMENT SKID TP - I - P 33213035 BOOSTER STATION #1 PC - I - P 33213036 PRESSURE TANK #1 (STANDPIPE) PC - I - P 33213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 33213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 33213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 33213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 33213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 33213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 33213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 33213030 TREATMENT PLANT #2 ST - 93213038 STORAGE TANK #2 (HIGH TANK) ST - 93213030 TREATMENT PLANT #1 TP - 93213040 TREATMENT PLANT #1 WL - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #2 Water System \ Treatment Status No Water Purchases	93213028 WELL #28		WL - I - P				
WELL #11B - PW2 WL - I - P V3213032 WELL #11 TREATMENT SKID OT - I - P V3213033 WELL #11 TREATMENT SKID TP - I - P V3213034 WELL #11 TREATMENT SKID TP - I - P V3213035 BOOSTER STATION #1 PC - I - P V3213037 PRESSURE TANK #1 (STANDPIPE) PC - I - P V3213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - 1 - P V3213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - 1 - P V3213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - 1 - P V3213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - 1 - P V3213030 TREATMENT PLANT #2 ST - 93213038 STORAGE TANK #2 (HIGH TANK) ST - 93213030 TREATMENT PLANT #2 ST - 93213030 DIST WL - 93213039 DW #1 TP - 93213030 TREATMENT PLANT #1 WL - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #1 Water System \ Treatment Status Water Purchases Water System \ Treatment Status No Water Purchases Buyers of Water Water System / Population / Availability (blank, (S)easonal, (E)mergency, (I)nterim, (P)ermanent, O)ther		N #1	SS - I - P				
33213033 WELL #11 TREATMENT SKID OT - 1 - P 3213033 WELL #11 TREATMENT SKID TREATMENT UNIT TP - I - P 3213035 BOOSTER STATION #1 PC - I - P 3213036 PRESSURE TANK #1 (STANDPIPE) PC - I - P 3213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - 1 - P Water System Facility Flows Supplying Facility ID No. Supplying Facility Name TP - 93213030 TREATMENT PLANT #2 ST - 93213038 STORAGE TANK #2 (HIGH TANK) ST - 93213039 STORAGE TANK #2 (HIGH TANK) DS - 93213040 DIST WL - 93213039 DW #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #1 WL - 93213039 DW #1 TP - 93213040 TREATMENT PLANT #1 Water System \ Treatment Status Water Purchases Water Purchases No Water Purchases Buyers of Water Water System / Population / Availability (blank, (S)easonal, (E)mergency, (I)nterim, (P)ermanent, O)ther	93213031 WELL #11A -PW1						
Main and the system							
13213034 TREATMENT UNIT IP-I-P UNIT ORGANICS REMOVAL AERAHON, CASCADE 13213036 BOOSTER STATION #1 PC-I-P PRESSURE TANK #1 PC-I-P 13213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST-I-P Vater System Facility Flows Supplying Facility ID No. Supplying Facility Name Receiving Facility ID No. Receiving Facility Name TP - 93213030 TREATMENT PLANT #2 ST - 93213038 STORAGE TANK #2 (HIGH TANK) ST - 93213039 DW #1 TP - 93213040 TREATMENT PLANT #1 WL - 93213039 DW #1 TP - 93213030 TREATMENT PLANT #1 WL - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #1 WL - 93213039 DW #1 TP - 93213030 TREATMENT PLANT #1 Water System \ Treatment Status Water Purchases Water Purchases Water Purchases Buyers of Water Water System / Population / Availability (blank, (S)easonal, (E)mergency, (I)nterim, (P)ermanent, O)ther			OT - I - P		1		1
PRESSURE TANK #1 (STANDPIPE) PC - I - P 93213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P 93213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - I - P Water System Facility Flows Supplying Facility ID No. Supplying Facility Name Receiving Facility ID No. Supplying Facility Name Receiving Facility ID No. Receiving Facility Name TP - 93213030 TREATMENT PLANT #2 ST - 93213038 STORAGE TANK #2 (HIGH TANK) DS - 93213000 DIST WL - 93213039 DW #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #2 Water System \ Treatment Status No Water Purchases Buyers of Water Vater System / Population / Availability (blank, (S)easonal, (E)mergency, (I)nterim, (P)ermanent, O)ther		ENT SKID	TP - I - P		ORGANICS REMO	VAL	AERATION, CASCADE
13213030 (STANDPIPE) PC - 1 - P 13213037 STORAGE TANK #1 (RAW WATER STORAGE TANK) ST - 1 - P Water System Facility Flows Supplying Facility ID No. Supplying Facility Name Receiving Facility ID No. Receiving Facility ID No. Supplying Facility ID No. Supplying Facility Name TP - 93213030 TREATMENT PLANT #2 ST - 93213038 STORAGE TANK #2 (HIGH TANK) ST - 93213038 STORAGE TANK #2 (HIGH TANK) DS - 93213000 DIST WL - 93213039 DW #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #1 Water System \ Treatment Status No Water Purchases Water System \ Treatment Status No Water Purchases Supplying of Water Water System / Population / Availability (blank, (S)easonal, (E)mergency, (I)nterim, (P)ermanent, O)ther	93213035 BOOSTER STATION	J #1	PC - I - P				
SI - 1 - P WATER STORAGE TANK) SI - 1 - P Water System Facility Flows Supplying Facility ID No. Receiving Facility ID No. StorAGE TANK #2 (HIGH TANK) STORAGE TANK #2 (HIGH TANK) DW #1 TP - 93213040 TREATMENT PLANT #1 TP - 93213030 TREATMENT PLANT #2 Water System \ Treatment Status No Water Purchases Buyers of Water </th <th></th> <th>1</th> <th>PC - I - P</th> <th></th> <th></th> <th></th> <th></th>		1	PC - I - P				
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O)ther			U				
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	No Buyers						



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

 Data Category:
 Geographic Area:

 Groundwater
 Vinited States
 GO

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- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 题

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

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

Received by OCD: 8/10/2023 3:12:53 PM

•

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		C	72019	66.94			1	Z			А

		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.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

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

			(quarters	(quarters are 1=NW 2=NE 3=SW 4=SE)						
			(quarter	s are sm	allest t	to 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 C	Compa	ny:	AB	BOTT E	BROTHERS	S COMPANY	
Driller Na	me:	ABBOTT, MUR	RELL							
Drill Start	Date:	04/20/1961	Drill Fin	ish Da	te:	0	4/20/196	51 Pl	ug Date:	06/09/1961
Log File Date: 04/27/1961		PCW Ro	PCW Rcv Date:					urce:	Shallow	
Ритр Тур	e:		Pipe Dise	Pipe Discharge Size:				Es	:	
Casing Siz	e:	6.63	Depth W	ell:		1	30 feet	De	epth Water:	65 feet
X	Wate	er Bearing Stratif	fications:	Та	op B	Bottom	Descr	iption		
				e	55	130	Sands	tone/Gravel	/Conglomerate	;
x Casing Perfe		forations:	Та	op B	Bottom	l				
					55	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

Received by	OCD:	8/10/2023	3:12:53	PM
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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.

Section 1

(A) Owner of well HONDO DRILLING COMPANY	
Street and Number P.O. Box 116	
City Midland StateState	
Well was drilled under Permit No. 1-4633 and is loc	ated in the
St 74 NE 1/4 SE 1/4 of Section 33 Twp. 17 SouthRg	.35 East
(B) Drilling Contractor Abbott Brothers License No	WD-46
O Street and Number P.O. Box: 637	
City	exice
Drilling was commenced April 20	
(Filt of 640 correct) Drilling was completed April 20	6 1

(Plat of 640 acres)

State whether well is shallow or artesian _____ Shallow _____ Depth to water upon completion _____65

Section 2

PRINCIPAL WATER-BEARING STRATA

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

Section 3	1			RECOR	D OF CAS	ING			
Dia Po	Pounds	Threads	Depth		Feet	Tuno Shoo	Perforations		
in.	ft.	in	Top	Bottom	reet	Type Shoe	From	То	•
6 5/8	17	10	0	100	100	open	65	100	-
				· · ·				-	-
						·····			-

Section 4

RECORD OF MUDDING AND CEMENTING

Depth From	in Feet	Diameter Hole in in.	Tons Clay	No. Sacks of Cement	:		Meth	ods Used	961
		++							5
									MA
					_			TAIG	<u> </u>
	1				·				
Postion E				PLUGGING	PECO	PD		ZR	
Section 5								M.	8.
Street an	d Number			Cit	y		St	ate:	7
				ughage used					
Plugging	method us	sed				Dat	e Plugged		
Plugging	approved	by:				Cemen	t Plugs were	placed as fol	lows:
	∇	N S				Depth	of Plug		······································
	-	· · ·	Basin Supe	rvisor	No.	From	To	No. of Sac	ks Used
tion and the second	FOR USE	OF STATE EN	GINEERSON	t.y				• •	
Ì	1010 001	<u>II</u>	JINISIN						
Data B	leceived	ER OFFICE	INIONA TI	71S				·····	
Date 1	ecciveu			A					
		Sか:7 的	72 A9A	1961 mh	L		I]		
					Maria da Maria da Maria	an nis ang na si			NUMBER OF STREET, STRE
	1 - 1	633		Use O.W	5			173533	121
File No.	4			Use_U.U	·		ocation No.	1, 30, 33	TA -

- ,* - *

d:<u>27</u>17

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Depth	in Feet	Thickness	~ 1	
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
·····				
			······································	
				1
		++-		
		+		
				· · · · · · · · · · · · · · · · · · ·
	·	N	. (
				his because and holist the formation is a factor and
e under t record	signed her	ove described w	ell.	his knowledge and belief, the foregoing is a true and
				munger libbatt
				Well Driller
)		· · · · · · · · · · · · · · · · · · ·
				e ingeningen er en er en er en er
		·.		1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 -
				/:
				gi Arta da Antonio da A
		-		• • •

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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.

445978 Page 21 of 146

1.100

lection	1		(1) 0		170			
						NDO DRILLING (
						1	_	6X88
								is located in the
							-	Rge
				-			· .	se No
[0	Street and	l Number				
			-					
			Drilling v	was comme	enced		. 4	
			Drilling w	vas comple	ted			
	(Plat of 640 a							
	-	-				-		
tate w	hether well	l is shallow	w or artesian.			Depth to wate	er upon comple	tion
ection	2		PRIN	ICIPAL WA	TER-BEAR	ING STRATA		1961 STA
Ne	Depth in		Thickness in		De	scription of Water-	Bearing Formation	
No.	From	То	Thickness in Feet Description of Water-Bearing Formation					JUN
1								28 61NE
2						ef y 67, al	<u>.</u>	TT T3
3								
								30 8. Th T
4								10
5								
ection	3			RECOR	D OF CA	SING		
Dia	Pounds	Thread	De	pth	1	1 1	Porfo	rations
in.	ft.	in an in	Top	Bottom	Feet	Type Shoe -	From	To To
		-		1			A	
						-		
				<u> </u>		11		1
ection	4		RECOR	D OF MUD	DING AN	ID CEMENTING		
Dep	th in Feet	Diamete	er Tons	No. Sa	cks of		Mathad	
From	То	Hole in i	in. Clay	Cem	ient		Methods Used	

Section 5	PLUGG	ING REC	ORD				
Name of Plugging Contractor	Abbott Bret	hors]	License N	lo. WD-46	
Street and NumberBoz	637	City	Hobbs	S	tate	New Mexic	
Tons of Clay used							
Plugging method used	plug over rubb	le fill	Dat	e Plugged.	June	9	196
Plugging approved by:	I Al	/	Cemen	t Plugs wer	e placed	as follows:	
Almuth	Basin Superviser	N	o. Depth	of Plug To	No.	of Sacks Used	l
FOR USE OF STATE ENG	INEER ONLY		<u>t</u> 3	6	4		
Date Received 10 VIIMINI		_					
11:8 MA SS NUL	1961						
File No. <u>L-4633</u>	UseC), ω,	<i>р.</i> г	ocation No.	1.7. 3 5	5.33.428	ð

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1

Section 6 LOG OF WELL								
Depth i	n Feet	Thickness		mana of Material Proceeding				
From	То	in Feet	Color	Type of Material Encountered				
		•	· • . • . •	1 () () () () () () () () () (
[
			· · · ·					
				······································				
		+						
			:					

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. 1 + 4 = 4

Well Driller

MARINE



APPENDIX B

Photographic Log





APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 8/10/2023 3:12:53 PM



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

RT DR ngs lum St. 400 704

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

SDG: Lea County NM

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Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

Definitions/Glossary		1
n /GSAU Sat 6 Mobile Tester	Job ID: 890-4095-1 SDG: Lea County NM	2
		3
Qualifier Description MS and/or MSD recovery exceeds control limits.		4
Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.		5
		6
Qualifier Description		

Qualifiers

GC VOA Qualifier

F1

S1+

U

GC Semi VOA	
Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limit

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

Qualifier

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)
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

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.

4

Project/Site: EVGSAU Sat 6 Mobile Tester

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

Client: Ensolum

Lab Sample ID: 890-4095-1

Matrix: Solid

5

Method: SW846 8021B - Volatile Orga	anic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0990	U	0.0990	mg/Kg		02/14/23 14:50	02/16/23 04:41	50
oluene	1.83		0.0990	mg/Kg		02/14/23 14:50	02/16/23 04:41	50
thylbenzene	8.96		0.0990	mg/Kg		02/14/23 14:50	02/16/23 04:41	50
n-Xylene & p-Xylene	9.24		0.198	mg/Kg		02/14/23 14:50	02/16/23 04:41	50
o-Xylene	4.51		0.0990	mg/Kg		02/14/23 14:50	02/16/23 04:41	50
lylenes, Total	13.8		0.198	mg/Kg		02/14/23 14:50	02/16/23 04:41	50
urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Bromofluorobenzene (Surr)	272	S1+	70 - 130			02/14/23 14:50	02/16/23 04:41	50
,4-Difluorobenzene (Surr)	94		70 - 130			02/14/23 14:50	02/16/23 04:41	50
Method: TAL SOP Total BTEX - Total	BTEX Calo	ulation						
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 - Diesel Ra	nge Organ	ics (DRO) (GC)					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	23900		500	mg/Kg			02/19/23 12:25	1
Method: SW846 8015B NM - Diesel R					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
asoline Range Organics GRO)-C6-C10	1110		500	mg/Kg		02/15/23 11:56	02/17/23 04:21	1(
viesel Range Organics (Over :10-C28)	20000	*1	500	mg/Kg		02/15/23 11:56	02/17/23 04:21	1(
Oll Range Organics (Over 28-C36)	2810		500	mg/Kg		02/15/23 11:56	02/17/23 04:21	1(
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
-Chlorooctane	237	S1+	70 - 130			02/15/23 11:56	02/17/23 04:21	10
-Terphenyl	413	S1+	70 - 130			02/15/23 11:56	02/17/23 04:21	10
lethod: EPA 300.0 - Anions, Ion Chr	omatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6190		49.8	mg/Kg			02/16/23 21:34	10
ient Sample ID: SS02						Lab San	nple ID: 890-	4095-2
te Collected: 02/08/23 11:35							Matri	x: Solic
te Received: 02/13/23 15:02								
Imple Depth: 0.5								
Method: SW846 8021B - Volatile Orga	anic Comp	ounds (GC)						

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: 11/17/2023 11:23:02 AM

Client: Ensolum

Client Sample Results

Job ID: 890-4095-1 ntv NM 9DC+1

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 x: Solic
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	469	S1+	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 -					_			
Analyte		Qualifier		Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	81.5		0.396	mg/Kg			02/16/23 09:39	
Method: SW846 8015 NM - Dies				11-14		Durant	Amelianad	D!! F-
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	20300		499	mg/Kg			02/19/23 12:25	
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)					
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	ŕ
Surrogate	%Recovery	Qualifier	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, lo	on Chromatograp	ohy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	4700		50.0	mg/Kg			02/16/23 21:38	1
Client Sample ID: SS03 Pate Collected: 02/08/23 11:40						Lab Sar	nple ID: 890- Matri	4095-3 x: Solid
ample Depth: 0.5	e Organic Comp	ounds (GC)					
ample Depth: 0.5 Method: SW846 8021B - Volatil	· ·	<mark>ounds (GC</mark> Qualifier) RL	Unit	D	Prepared	Analyzed	Dil Fa
ample Depth: 0.5 Method: SW846 8021B - Volatil ^{Analyte}	· ·	Qualifier	·	Unit mg/Kg	<u>D</u>	Prepared 02/14/23 14:50	Analyzed	Dil Fa
ample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene	Result <0.101	Qualifier			<u>D</u>			5
ample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene Toluene	Result	Qualifier	RL 0.101	mg/Kg	<u> </u>	02/14/23 14:50	02/16/23 05:22	5
ample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene	Result <0.101 1.93 10.5	Qualifier	RL 0.101 0.101	mg/Kg mg/Kg	<u> </u>	02/14/23 14:50 02/14/23 14:50	02/16/23 05:22 02/16/23 05:22	
ample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result <0.101 1.93 10.5 10.4	Qualifier	RL 0.101 0.101 0.101	mg/Kg mg/Kg mg/Kg	<u> </u>	02/14/23 14:50 02/14/23 14:50 02/14/23 14:50	02/16/23 05:22 02/16/23 05:22 02/16/23 05:22	5 5 5
ample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result <0.101 1.93 10.5	Qualifier	RL 0.101 0.101 0.101 0.201	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	02/14/23 14:50 02/14/23 14:50 02/14/23 14:50 02/14/23 14:50	02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22	5 5 5 5
ample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result <0.101 1.93 10.5 10.4 4.87	Qualifier U	RL 0.101 0.101 0.101 0.201 0.101	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	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	02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22	5 5 5 5 5 5
ample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	Result <0.101 1.93 10.5 10.4 4.87 15.3 %Recovery	Qualifier U	RL 0.101 0.101 0.101 0.201 0.101 0.201	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	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	02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22	5 5 5 5 5 5 5 5 5
ample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result <0.101 1.93 10.5 10.4 4.87 15.3 %Recovery	Qualifier U Qualifier	RL 0.101 0.101 0.101 0.101 0.201 0.101 0.201 0.201 Limits	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	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 02/14/23 14:50 Prepared	02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 Analyzed	5 5 5 5 5 5 5 Dill F a 5 5
bate Received: 02/13/23 15:02 Sample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX -	Result <0.101	Qualifier U Qualifier S1+	RL 0.101 0.101 0.101 0.101 0.201 0.101 0.201 0.201 0.201 0.201 0.701	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	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 02/14/23 14:50 Prepared 02/14/23 14:50	02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 Analyzed 02/16/23 05:22	5 5 5
ample Depth: 0.5 Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Result <0.101	Qualifier U Qualifier S1+	RL 0.101 0.101 0.101 0.101 0.201 0.101 0.201 0.201 0.201 0.201 0.701	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	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 02/14/23 14:50 Prepared 02/14/23 14:50	02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 02/16/23 05:22 Analyzed 02/16/23 05:22	5 5 5 5 5 5 5 Dill Fa 5

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Project/Site: EVGSAU Sat 6 Mobile Tester

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
Fotal TPH	9890		250	mg/Kg			02/19/23 12:25	1
Method: SW846 8015B NM - Die	esel 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
o-Terphenyl	175	S1+	70 - 130			02/15/23 11:56	02/17/23 05:06	5
Method: EPA 300.0 - Anions, lo	n 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

5

Project/Site: EVGSAU Sat 6 Mobile Tester

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

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-24811-A-1-D MS	Matrix Spike	109	94	·	
880-24811-A-1-E MSD	Matrix Spike Duplicate	92	85		
890-4095-1	SS01	272 S1+	94		- 7
890-4095-2	SS02	469 S1+	79		
890-4095-3	SS03	233 S1+	92		
890-4105-A-1-A MS	Matrix Spike	112	104		
890-4105-A-1-B MSD	Matrix Spike Duplicate	114	109		
LCS 880-46330/1-A	Lab Control Sample	112	100		
LCS 880-46469/1-A	Lab Control Sample	105	107		
LCSD 880-46330/2-A	Lab Control Sample Dup	114	109		
LCSD 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					
BFB = 4-Bromofluorober	nzene (Surr)				
DFBZ = 1,4-Difluorobenz	zene (Surr)				

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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QC Sample Results

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46300/5-A										Client Sa	mple ID: Me		
Matrix: Solid											Prep Typ		
Analysis Batch: 46358											Prep Ba	tch:	46300
		IB I											
Analyte			Qualifier			Un		_ <u>D</u>		repared	Analyzed		Dil Fac
Benzene	<0.002		U	0.00200		-	/Kg			4/23 11:24	02/15/23 10:5		1
Toluene	<0.002			0.00200		-	/Kg			4/23 11:24	02/15/23 10:5		1
Ethylbenzene	<0.002	00	U	0.00200		mg	/Kg		02/1	4/23 11:24	02/15/23 10:5	4	1
m-Xylene & p-Xylene	<0.004	00	U	0.00400		mg	/Kg		02/1	4/23 11:24	02/15/23 10:5	4	1
o-Xylene	<0.002	00	U	0.00200		mg	/Kg		02/1	4/23 11:24	02/15/23 10:5	4	1
Xylenes, Total	<0.004	00	U	0.00400		mg	/Kg		02/1	4/23 11:24	02/15/23 10:5	4	1
	Л	/B	МВ										
Surrogate	%Recove	ery (Qualifier	Limits					P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)		77		70 - 130					02/1	4/23 11:24	02/15/23 10:5	4	1
1,4-Difluorobenzene (Surr)		92		70 - 130					02/1	4/23 11:24	02/15/23 10:5	4	1
 Lab Sample ID: MB 880-46330/5-A										Client Sa	mple ID: Me	hod	Blank
Matrix: Solid											· Prep Typ		
Analysis Batch: 46358											Prep Ba		
· · · · · , · · · · · · · · · · · · · · · · · · ·	Ν	IB I	мв										
Analyte	Res	ult (Qualifier	RL		Un	it	D	Р	repared	Analyzed		Dil Fac
Benzene	<0.002	00	U	0.00200		mo	/Kg		-	4/23 14:50	02/15/23 21:3	0 -	1
Toluene	< 0.002			0.00200		-	/Kg			4/23 14:50	02/15/23 21:3		1
Ethylbenzene	< 0.002			0.00200		-	/Kg			4/23 14:50	02/15/23 21:3		1
m-Xylene & p-Xylene	< 0.004			0.00400			/Kg			4/23 14:50	02/15/23 21:3		
o-Xylene	<0.002			0.00200		-	/Kg			4/23 14:50	02/15/23 21:3		1
Xylenes, Total	<0.002			0.00400		-	/Kg			4/23 14:50	02/15/23 21:3		1
	-0.004	00	0	0.00400		1112	/itg		02/1	4/20 14.00	02/10/20 21:0	0	'
	Л	/B	MB										
Surrogate	%Recove	ery	Qualifier	Limits					P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)		79		70 - 130					02/1	4/23 14:50	02/15/23 21:3	0	1
1,4-Difluorobenzene (Surr)		90		70 - 130					02/1	4/23 14:50	02/15/23 21:3	0	1
_ Lab Sample ID: LCS 880-46330/1-A								c	lient	t Sample I	ID: Lab Cont	rol S	ample
Matrix: Solid											Prep Typ		
Analysis Batch: 46358											Prep Ba		
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualifie	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		
e Aylone				0.100	0.1120		ing/itg			110	10-100		
0	LCS L		e	1 : :4									
	Recovery 0 112	ualli		Limits									
4-Bromofluorobenzene (Surr)				70 - 130 70 - 130									
1,4-Difluorobenzene (Surr) 	100			70 - 130									
Lab Sample ID: LCSD 880-46330/2-	A						С	lient	San	nple ID: La	ab Control S		
Matrix: Solid											Prep Typ		
Analysis Batch: 46358											Prep Ba	tch:	
				Spike	LCSD	LCSD					%Rec		RPD
Analyte				Added	Result	Qualifie	Unit		D	%Rec	Limits	RPD	Limit
Benzene		_		0.100	0.1045		mg/Kg			104	70 - 130	4	35

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

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QC Sample Results

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

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

Lab Sample ID: LCSD 880-4 Matrix: Solid	6330/2-A					Clie	ent Sam	ple ID:	Lab Contro		
										Type: To Retable	
Analysis Batch: 46358			0 11	1.000	1.000					Batch:	
Awalada			Spike		LCSD	11 14	-	0/ D	%Rec		RPD
Analyte			Added	0.1046	Qualifier	Unit	D	%Rec	Limits		Limit 35
Toluene						mg/Kg		105		1	
Ethylbenzene			0.100	0.1105		mg/Kg		111	70 - 130	4	35
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								
A	•	•				11					
Analysis Batch: 46358	Sample	Sample	Spike	MS	MS				%Rec	Batch:	
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)			70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								
Lab Comple ID: 900 4405 A						~	lient Cr	male IF	Motrix C-	aiko Dur	liest
Lab Sample ID: 890-4105-A- Matrix: Solid						U U	ment Sa	ampie IL): Matrix Sp Brop 1		
										Type: To Ratch:	
Analysis Batch: 46358	Sample	Sample	Spike	Men	MSD				%Rec	Batch:	40330 RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi

	Sample	Jampie	Opike	WIGD	WIGD				/01100		
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

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Prep Type: Total/NA

Prep Batch: 46469

Client Sample ID: Method Blank

5

7
Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester

Lab Sample ID: MB 880-46469/5-A									Client Sa	mple ID: Metho	d Blank
Matrix: Solid										Prep Type: 1	Total/NA
Analysis Batch: 46483										Prep Batch	n: 46469
	Μ	в мв									
Analyte	Resu	It Qualifier	RL		U	nit	D	P	repared	Analyzed	Dil Fac
o-Xylene	<0.0020	00 U	0.00200		m	g/Kg	_	02/1	5/23 16:11	02/16/23 11:46	1
Xylenes, Total	<0.0040	0 U	0.00400		m	g/Kg		02/1	5/23 16:11	02/16/23 11:46	1
	N	B MB									
Surrogate	%Recove	ry Qualifier	Limits					P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		78	70 - 130					02/1	5/23 16:11	02/16/23 11:46	1
1,4-Difluorobenzene (Surr)	9	91	70 - 130					02/1	5/23 16:11	02/16/23 11:46	1
Lab Sample ID: LCS 880-46469/1-A							С	lient	Sample	ID: Lab Control	
Matrix: Solid										Prep Type: 1	fotal/NA
Analysis Batch: 46483										Prep Batch	n: 46469
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifie	er Unit		D	%Rec	Limits	
Benzene			0.100	0.1288		mg/Kg			129	70 - 130	
Toluene			0.100	0.1150		mg/Kg			115	70 - 130	
Ethylbenzene			0.100	0.1162		mg/Kg			116	70 - 130	
m-Xylene & p-Xylene			0.200	0.2450		mg/Kg			123	70 - 130	
o-Xylene			0.100	0.1228		mg/Kg			123	70 - 130	
	LCS L	cs									
Surrogate %	Recovery Q	ualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								

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

Analysis Batch: 46483

1,4-Difluorobenzene (Surr)

Analysis Batch: 46483							Prep	Batch:	46469
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
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

70 - 130

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

107

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

Matrix: Solid Analysis Batch: 46483										Type: Total/NA Batch: 46469
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.101	0.08001		mg/Kg		79	70 - 130	
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

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)

								Client S	ample ID: Metho	d Blank
Matrix: Solid									Prep Type: ⁻	Total/NA
Analysis Batch: 46479									Prep Batcl	h: 46409
	MB	MB								
Analyte	Result	Qualifier	RL		Unit		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/K	g	02	/15/23 11:56	02/16/23 19:48	1
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	50.0		mg/K	g	02	15/23 11:56	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 11:56	02/16/23 19:48	1
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02	/15/23 11:56	02/16/23 19:48	1
o-Terphenyl	108		70 - 130				02	/15/23 11:56	02/16/23 19:48	1
- Lab Sample ID: LCS 880-46409/2-A							Clier	nt Sample	ID: Lab Control	Sample
Matrix: Solid									Prep Type:	
Analysis Batch: 46479									Prep Batcl	
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	1045		mg/Kg		104	70 - 130	
(GRO)-C6-C10										

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

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

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Diesel Range Organics (Over

C10-C28)

1000

1061

mg/Kg

106

70 - 130

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

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

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									Prep 1	Type: To	tal/NA
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-/								Client	Sample ID	Motrix	Spike
								Chefit			
Matrix: Solid										Type: To	
Analysis Batch: 46479	0	0	0							Batch:	46409
• • •	-	Sample	Spike		MS		_	a/ 5	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U	1000	1023		mg/Kg		98	70 - 130		
(GRO)-C6-C10	-10.0	11 *4	1000	940.4		malla		00	70 - 130		
Diesel Range Organics (Over	<49.9	0 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-/						CI	iont Sa	mnlo IF): Matrix Sp	niko Dur	licato
Matrix: Solid										Гуре: То	
Analysis Batch: 46479										Batch:	
Analysis Datch. 40473	Sample	Sample	Spike	MSD	MSD				%Rec	Daten.	RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9		1000	1044		mg/Kg		100	70 - 130	2	20
(GRO)-C6-C10						- •					
Diesel Range Organics (Over	<49.9	U *1	1000	1103		mg/Kg		109	70 - 130	16	20
C10-C28)											
C10-C28)	MSD	MSD									
C10-C28) Surrogate	MSD %Recovery	MSD Qualifier	Limits								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46459/1-A Matrix: Solid Analysis Batch: 46551						Client Sa	imple 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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Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

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

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS &	880-46459/2-A						Client	Sample	D: Lab Co		
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 4655	01		0	1.00	1.00				0/ D		
			Spike		LCS		_	~ -	%Rec		
Analyte			Added		Qualifier	Unit	<u>D</u>	%Rec	Limits		
Chloride			250	238.5		mg/Kg		95	90 - 110		
Lab Sample ID: LCSD) 880-46459/3-A					Clier	nt Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 4655	61										
			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: 890-4								Client	Sample ID	Motrix	Spike
	1094-A-I-E 113							Client	Sample ID		
Matrix: Solid									Prep	Type: S	elanio
Analysis Batch: 4655		0	0						%Rec		
A	•	Sample	Spike		MS	1114	_	0/ D			
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	11.1		251	262.5		mg/Kg		100	90 - 110		
Lab Sample ID: 890-4	1094-A-1-F MSD					CI	ient Sa	ample IC): Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 4655	51										
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	11.1		251	267.7		mg/Kg		102	90 - 110	2	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	Prep Type	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

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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	Prep Type	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	40
880-24624-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46409	13
Analysis Potoby 46674						
Analysis Batch: 46671						

Lab Sample ID	Client Sample ID	Prep Type	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

Project/Site: EVGSAU Sat 6 Mobile Tester

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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		
Ргер Туре	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		
Prep Type	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	CH	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	СН	EET MID

Laboratory References:

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

Accreditation/Certification Summary

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		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: EVGSAU	Sat 6 Mobile Tester			Job ID: 890-4095-1 SDG: Lea County NM	2
Laboratory: Eurofi	ins Midland				
Unless otherwise noted, all a	nalytes for this laboratory	were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-22-25	06-30-23	E
The following analytes	are included in this report,	but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not of					
Analysis Method 8015 NM	Prep Method	Matrix	Analyte Total TPH		
Total BTEX		Solid Solid	Total BTEX		
					8
					9
					10
					10
					13

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Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

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

Nethod	Method Description	Protocol	Laboratory	
3021B	Volatile Organic Compounds (GC)	SW846	EET MID	
lotal BTEX	Total BTEX Calculation	TAL SOP	EET MID	
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID	
3015B 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	
3015NM Prep	Microextraction	SW846	EET MID	
OI 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 Editio	n, November 1986 And Its Updates.		
TAL SOP :	= TestAmerica Laboratories, Standard Operating Procedure			
Laboratory Re	eferences:			
EET MID =	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			

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Released to Imaging: 11/17/2023 11:23:02 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	Dep
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

Received by OCD: 8/10/2023 3:12:53 PM

13

2/20/2023

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Project Manager:	Kalei Je	nninas				Bill to: (if	differen	t)	Kalei	Jennir	ngs								Wo	rk Orc	der Cr	omments		
Company Name:	Ensolun					Compar			1	um, Ll						Pro	gram:	UST/PS			Brownf	fields 🗌 RRC	Superf	iund [
			Id St S	uite 400		Address			1			St Suit	e 400				te of Pi		_					
Address:						City, Sta					7970					Rep	orting:	Level I	Lev	et III] PST/		P Lev	el IV
City, State ZIP:	Midland		701		Freed	kjennin		nolur	1				solum	om		Deli	verable	es: EDI		A	DaPT	Othe	r:	
Phone:	817-683	3-2503	_		Email	<u> Kjennin</u>	gswei	ISOluri	1.0011	UIIIK	anoro	vicen						_			T			
Project Name:	EVG	SAU Sa	t 6 Mol	bile Tester	Turi	n Around		0	ļ				A	NAL	YSIS RE	QUES	ST	T	<u>г т</u>				ative Code	
Project Number:		03D	205707	72	✓ Routine	Rus	h	Pres. Code												\rightarrow	^	None: NO	DI Wate	r: H ₂ O
Project Location:		Lea C	ounty,	NM	Due Date:																C	Cool: Cool	MeOH: I	Ме
Sampler's Name:		Dmitry	Nikan	orov	TAT starts th	ne day rece	eived by														F	HCL: HC	HNO3: H	
PO #:					the lab, if re	ceived by 4	1:30pm	2						I	1	1	1	1			F	$H_2SO_4: H_2$	NaOH: N	Na
SAMPLE RECE		Temp B	lank:	tes No	Wet Ice:	Tes	No	Parameters	6				1		HINNING N	DHIMHE	HHH					H₃PO₄: HP		
Samples Received	Intact:	(Tes)	No	Thermometer	ID:	TAN	EUT.	aran	300.												1	NaHSO ₄ : NAB		
Cooler Custody Se	als: Y	'es No	TATA	Correction Fa	ictor:	-0	7.7	à	A												1	Na ₂ S ₂ O ₃ : NaS		
Sample Custody Se	eals: Y	'es No	N/A	Temperature	Reading:	5	9	1	S (E			1			095 Chai	n of C	ustody	ATAL PLACES				Zn Acetate+Na		
Total Containers:	-			Corrected Te	mperature:	5	7		IDE	015)	8021			390-4	1095 Cital	1010					Ľ	NaOH+Ascorb	IC ACID: SA	
Sample Ide	entification	1	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021											Sample	Commen	ts
SS	01		s	2/8/2023	11:30	0.5'	Grab	1	x	x	x													
SS	02	-	s	2/8/2023	11:35	0.5'	Grab	1	x	×	x													
SS	03		s	2/8/2023	11:40	0.5'	Grab	1	x	x	x									_	\rightarrow	Incide	nt Numbe	r
		/																_						
	/	\bigcirc	2																		_		_	
/	/	Y																						
Total 200.7 / (Circle Method(s)	and Metal	nd relingu	e analy	vzed	TCLP / S	PLP 601	0: 8R	CRA	Sb A	o Eurof	Be (Cd Cr co, its a	CO C	u Pt	O Mn Mo	Ni S It assig	ins stan	TI U	ns and co	Hg: 16 onditions	631/2 s	a Sr TI Sn 1 245.1 / 7470		
of service. Eurofins Xe of Eurofins Xenco. A m	nco will be lia iinimum char	ge of \$85.0	or the cos 00 will be	applied to each p	project and a ch	narge of \$5	for each :	sample	submitte	ad to Eu	rofins)	(enco, b	out not ana	iyzed.	These term	s will be	enforce	d unless	previous	ly negoti	iated.			
Relinquished t			0		d by: (Signa		4			/Time		Re			by: (Signa				eived b			e)	Date/Tim	e
3	200	- (Ac	round	12	lig	-	2.	13:	23	159	4					-							_
5								1				16												

Revised Date: 08/25/2020 Rev. 2020.2

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

List Source: Eurofins Carlsbad

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	

Received by OCD: 8/10/2023 3:12:53 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

Page 49 of 146

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Received by OCD: 8/10/2023 3:12:53 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

SDG: Lea County NM

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Definitions/Glossary

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

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

GC VOA		3
Qualifier	Qualifier Description	
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		Q
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	10
%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	12
DL	Detection Limit (DoD/DOE)	13
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	

Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

TEQ Toxicity Equivalent Quotient (Dioxin)

Relative Error Ratio (Radiochemistry)

TNTC Too Numerous To Count

RER

RPD

RL

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.

Project/Site: EVGSAU Sat 6 Mobile Tester

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

Lab Sample ID: 890-4096-1

Client Sample ID: SS04

Date Collected: 02/08/23 12:45 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	<0.00199	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 - 1	Total BTEX Cald	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 - Diese	• •		· ·	Ilmit		Bronorod	Applyzed	Dil Ess
Method: SW846 8015 NM - Diese Analyte Total TPH	• •	Qualifier	GC) <u>RL</u>	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total TPH		Qualifier	RL 50.0		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier	(GC)	mg/Kg		<u>.</u>	02/19/23 12:25	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.0	Qualifier U nics (DRO) Qualifier	RL 50.0		<u>D</u>	Prepared Prepared 02/15/23 11:56		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier	(GC)	mg/Kg Unit		Prepared	02/19/23 12:25 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies 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 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U U *1	(GC) <u>RL</u> <u>S0.0</u> <u>RL</u> <u>50.0</u>	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 - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 sel Range Orga Result <50.0 <50.0	Qualifier U nics (DRO) Qualifier U U *1 U	(GC) 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 - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 sel Range Orga Result <50.0 <50.0 <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	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 Dil Fac
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	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	02/19/23 12:25 Analyzed 02/17/23 04:00 02/17/23 04:00 02/17/23 04:00 Analyzed 02/17/23 04:00	1 Dil Fac 1 1 1 <i>Dil Fac</i> 1

5.01

mg/Kg

42.7

Matrix: Solid

5

02/16/23 21:48

1

Project/Site: EVGSAU Sat 6 Mobile Tester

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

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-24598-A-1-F MS	Matrix Spike	96	98		
880-24598-A-1-G MSD	Matrix Spike Duplicate	97	98		6
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		8
Surrogate Legend					
BFB = 4-Bromofluorober	nzene (Surr)				9

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	· · · · · · · · · · · · · · · · · · ·
Sample ID	Client Sample ID	(70-130)	(70-130)	
24624-A-7-D MS	Matrix Spike	85	91	
4624-A-7-E MSD	Matrix Spike Duplicate	99	107	
4096-1	SS04	93	104	
380-46409/2-A	Lab Control Sample	98	113	
D 880-46409/3-A	Lab Control Sample Dup	85	99	
880-46409/1-A	Method Blank	85	108	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

QC Sample Results

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	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	o 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 Prep Type: Total/NA

Job ID: 890-4096-1

SDG: Lea County NM

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 46575

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

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

Lab Sample ID: 880-24598-A-1-	-F MS									Client S	Sample ID: M	atrix	Spike
Matrix: Solid											Prep Typ	e: To	tal/NA
Analysis Batch: 46569											Prep Ba	atch:	46575
-	Sample	Sam	ple	Spike	MS	MS					%Rec		
Analyte	Result	Qual	ifier	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	MS											
Surrogate	%Recovery	Qual	ifier	Limits									
4-Bromofluorobenzene (Surr)	96			70 - 130									
1,4-Difluorobenzene (Surr)	98			70 - 130									
Lab Sample ID: 880-24598-A-1	-G MSD							Clie	nt Sa	ample ID:	: Matrix Spike	e Dur	olicate
Matrix: Solid											Prep Typ		
Analysis Batch: 46569											Prep Ba		
	Sample	Sam	ple	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Qual	ifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U		0.0996	0.1038		mg/Kg			103	70 - 130	10	35
Toluene	<0.00201	U		0.0996	0.1047		mg/Kg			105	70 - 130	9	35
Ethylbenzene	<0.00201	U		0.0996	0.09296		mg/Kg			93	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U		0.199	0.1791		mg/Kg			90	70 - 130	8	35
o-Xylene	<0.00201	U		0.0996	0.09331		mg/Kg			93	70 - 130	8	35
	MSD	MSD	1										
Surrogate	%Recovery	Qual	ifier	Limits									
4-Bromofluorobenzene (Surr)	97			70 - 130									
1,4-Difluorobenzene (Surr)	98			70 - 130									
Nethod: 8015B NM - Diese	I Range O	rgan	ics (DF	RO) (GC)									
-		•		,,,,,									
Lab Sample ID: MB 880-46409/	1 -A									Client Sa	ample ID: Me		
Matrix: Solid											Prep Typ		
Analysis Batch: 46479											Prep Ba	atch:	46409
	_	MB						_					
Analyte						Unit		D		repared	Analyzed		Dil Fac
Gasoline Range Organics	<	<50.0	U		50.0	mg/ł	≺g		02/1	5/23 11:56	02/16/23 19:4	18	1
(GRO)-C6-C10 Diesel Range Organics (Over		<50.0			50.0	mc/l	K a		02/4	5/23 11:56	02/16/23 19:4	18	1
C10-C28)	<	-30.0	0		50.0	mg/ł	NY		02/1	5/23 11:30	02/10/23 19:4	90	ľ
010-020													

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	108		70 - 130

<50.0 U

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

Oll Range Organics (Over C28-C36)

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

50.0

mg/Kg

Prep Type: Total/NA

02/15/23 11:56

Prepared

02/15/23 11:56

02/16/23 19:48

Analyzed

02/16/23 19:48

Client Sample ID: Lab Control Sample

02/15/23 11:56 02/16/23 19:48

1

1

1

Dil Fac

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

Method: 8015B NM - Die

Project/Site: EVGSAU Sat 6 M	obile Tester								SDG: L	ea Coun	ity NM	2
Method: 8015B NM - Dies	sel Range Oi	r <mark>ganics (</mark> l	DRO) (GC) ((Continue	ed)							
Lab Sample ID: LCS 880-464 Matrix: Solid Analysis Batch: 46479	409/2-A						Client	Sample		ontrol S Type: To Batch:	tal/NA	4
	LCS	LCS										5
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	98		70 - 130									0
o-Terphenyl	113		70 - 130									7
Lab Sample ID: LCSD 880-4	6409/3-A					Clier	nt Sam	nle ID:	Lab Contro	Sampl	e Dup	
Matrix: Solid								· • · • · •		Type: To		0
Analysis Batch: 46479										Batch:		0
· · · · · · · · · · · · · · · · · · ·			Spike	LCSD	LCSD				%Rec		RPD	0
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	9
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									13
Lab Sample ID: 880-24624-A	-7-D MS							Client	Sample ID	: Matrix	Spike	
Matrix: Solid										Type: To		
Analysis Batch: 46479										Batch:		
	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 Matrix: Solid

									гіері	ype. io	
Analysis Batch: 46479									Prep	Batch:	46409
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1044		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	1103		mg/Kg		109	70 _ 130	16	20
	MOD	MCD									

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	107		70 - 130

Client Sample ID: Matrix Spike Duplicate

Pren Type: Total/NA

Job ID: 890-4096-1

Project/Site: EVGSAU Sat 6 Mobile Tester

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: Prep	Method Type: S	
Analysis Batch: 46551														
		MB	MB											
Analyte	Re	esult	Qualifier		RL		Unit		<u>D</u>	Р	repared	Analyz	zed	Dil Fac
Chloride	<	5.00	U		5.00		mg/K	g				02/16/23	21:05	1
Lab Sample ID: LCS 880-46459/2-A									Cli	ent	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 46551														
				Spike		LCS	LCS					%Rec		
Analyte				Added	Re	esult	Qualifier	Unit		D	%Rec	Limits		
Chloride				250	2	38.5		mg/Kg		_	95	90 - 110		
- Lab Sample ID: LCSD 880-46459/3-	A							CI	ient S	Sam	ple ID: I	_ab Contro	ol Sampl	e Dur
Matrix: Solid													Type: S	
Analysis Batch: 46551														
				Spike	L	CSD	LCSD					%Rec		RPD
Analyte				Added	Re	sult	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250	2	61.8		mg/Kg		_	105	90 - 110	9	20
- Lab Sample ID: 890-4094-A-1-E MS	1										Client	Sample ID	: Matrix	Spike
- Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid	l										Client	Sample ID Prep		
	1										Client		: Matrix Type: S	
Matrix: Solid	Sample	Samp	ble	Spike		MS	MS				Client			
Matrix: Solid				Spike Added	Re		MS Qualifier	Unit		D	Client %Rec	Prep		
Matrix: Solid Analysis Batch: 46551	Sample							- Unit mg/Kg		<u>D</u>		Prep %Rec		
Matrix: Solid Analysis Batch: 46551 Analyte Chloride	Sample Result 11.1			Added		sult		mg/Kg	Clien	_	%Rec	Prep %Rec Limits 90 - 110	Type: S	oluble
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: 890-4094-A-1-F MS	Sample Result 11.1			Added		sult		mg/Kg	Clien	_	%Rec	Prep %Rec Limits 90 - 110 : Matrix Sp	Type: S	
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: 890-4094-A-1-F MS Matrix: Solid	Sample Result 11.1			Added		sult		mg/Kg	Clien	_	%Rec	Prep %Rec Limits 90 - 110 : Matrix Sp	Type: S	
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: 890-4094-A-1-F MS	Sample Result 11.1	Quali	fier	Added	2	esult 62.5	Qualifier	mg/Kg	Clien	_	%Rec	Prep %Rec Limits 90 - 110 : Matrix Sp	Type: S	oluble
Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: 890-4094-A-1-F MS Matrix: Solid	Sample Result 11.1	Quali	ifier	Added 251	2	esult 62.5 WSD	Qualifier	mg/Kg	Clien	_	%Rec	Prep %Rec Limits 90 - 110 P: Matrix Sy Prep	Type: S	oluble

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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

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-4096-1	SS04	Total/NA	Solid	8021B	46575
MB 880-46575/5-A	Method Blank	Total/NA	Solid	8021B	46575
_CS 880-46575/1-A	Lab Control Sample	Total/NA	Solid	8021B	46575
_CSD 880-46575/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46575
380-24598-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	46575
380-24598-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46575
ep Batch: 46575					
_ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
390-4096-1	SS04	Total/NA	Solid	5035	
MB 880-46575/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-46575/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-46575/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
380-24598-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
380-24598-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 46725					
_ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
390-4096-1	SS04	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	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	Prep Type	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

5 6

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	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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Job ID: 890-4096-1 SDG: Lea County NM

Lab Sample ID: 890-4096-1

Matrix: Solid

Eurofins Carlsbad

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.

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

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Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

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

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 80150 NA Diesel Range Organics (DRO) (GC) SW846 EET MID 800.0 Anions, Ion Chromatography EPA EET MID 5035 Closed System Purge and Trap SW846 EET MID 8015NM Prep Microextraction SW846 EET MID 8015NM Prep Microextraction SW846 EET MID DI Leach Deionized Water Leaching Procedure ASTM EET MID Protocol References: ASTM = ASTM International EPA = US Environmental Protection Agency SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References: EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440 <th>Nethod</th> <th>Method Description</th> <th>Protocol</th> <th>Laboratory</th>	Nethod	Method Description	Protocol	Laboratory
8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID8015 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 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 ProcedureLaboratory References:	8021B	Volatile Organic Compounds (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 8015B NM Prep Microextraction 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:	lotal BTEX	Total BTEX Calculation	TAL SOP	EET MID
300.0Anions, 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: Laboratory References: Kasta Asta Asta Asta Asta Asta Asta Asta	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: Laboratory References: Kerences:	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:	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:	OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:			tion November 1986 And Its Undates	
-			iion, november 1900 And its Opdates.	
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

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

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	

eurofins

PO #:

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Environment Testing Work Order No: _ Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Xenco EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 of www.xenco.com Page Work Order Comments Kalei Jennings Bill to: (if different) Kalei Jennings Project Manager: Program: UST/PST PRP Brownfields RRC Superfund Ensolum, LLC Company Name: Ensolum, LLC Company Name: State of Project: 601 N Marienfeld St Suite 400 601 N Marienfeld St Suite 400 Address: Address: Reporting: Level II 🗌 Level III 🗋 PST/UST 🗍 TRRP 📄 Level IV City, State ZIP: Midland, TX 79701 Midland, TX 79701 City, State ZIP: Deliverables: EDD ADaPT Other: Email: kjennings@ensolum.com, dnikanorov@ensolum.com 817-683-2503 Phone: **Preservative Codes** ANALYSIS REQUEST **Turn Around** EVGSAU Sat 6 Mobile Tester Project Name: Pres. None: NO DI Water: H₂O Routine Rush 03D2057072 Project Number: Code MeOH: Me Cool: Cool Due Date: Project Location: Lea County, NM HCL: HC HNO3: HN Sampler's Name: **Dmitry Nikanorov** TAT starts the day received by the lab, if received by 4:30pm H2S04: H2 NaOH: Na Parameters H₃PO₄: HP Tres No SAMPLE RECEIPT Nes No Temp Blank: Wet Ice: (EPA: 300.0) NaHSO4: NABIS Yes (37 Thermometer ID: Samples Received Intact: No Thre Na2S2O3: NaSO3 Yes No PNA Correction Factor: 2 Cooler Custody Seals: 890-4096 Chain of Custod 0 Zn Acetate+NaOH: Zn N/A Temperature Reading: Sample Custody Seals: Yes No CHLORIDES NaOH+Ascorbic Acid: SAPC BTEX (8021 Corrected Temperature: TPH (8015) Total Containers: Grab/ # of Time Date Sample Comments Sample Identification Matrix Depth Sampled Cont Sampled Comp S 2/8/2023 12:45 0.5 Grab 1 х x X SS04 Incident Number 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Total 200.7 / 6010 200.8 / 6020: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471 Circle Method(s) and Metal(s) to be 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 of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated Date/Time Relinguished by: (Signature) Received by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) 15/2 Wine 2-13-22

Chain of Custody

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

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AM

Released to Imaging: 11/17/2023 11:23:02

Revised Date: 08/25/2020 Rev. 2020.2

PM

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	

Eurofins Carlsbad Released to Imaging: 11/17/2023 11:23:02 AM

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").

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Job Number: 890-4096-1

SDG Number: Lea County NM List Source: Eurofins Midland

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

Received by OCD: 8/10/2023 3:12:53 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: 8/10/2023 3:12:53 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

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

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	Definitions/Glossary		
Client: Ensolu Project/Site: E	um EVGSAU Sat 6 Mobile Tester	Job ID: 890-4094-1 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, low biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA	A		
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.		
a	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)		

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: 890-4094-1

Job ID: 890-4094-1

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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Project/Site: EVGSAU Sat 6 Mobile Tester

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

Matrix: Solid

Lab Sample ID: 890-4094-1

Client Sample ID: SS05

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

Sample Depth: 0.5

Client: Ensolum

le Depth: 0.5

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 -	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/16/23 10:01	1
				11	-	Dramored	Arel	D# C
Method: SW846 8015 NM - Dies Analyte Total TPH	Result	Qualifier	RL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Unit mg/Kg	<u> </u>	Prepared	Analyzed 02/19/23 12:25	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.9	Qualifier	(GC)	mg/Kg			02/19/23 12:25	1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte	Result <49.9 esel Range Orga Result	Qualifier U Inics (DRO) Qualifier	(GC)	mg/Kg Unit	D	Prepared	02/19/23 12:25 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <49.9	Qualifier U Inics (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	Result <49.9 esel Range Orga Result	Qualifier U Qualifier Qualifier U	(GC)	mg/Kg Unit		Prepared	02/19/23 12:25 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range Orga Result <49.9 Result <49.9	Qualifier U Qualifier U U *1	RL 49.9 (GC) RL 49.9	Unit mg/Kg		Prepared 02/15/23 11:56	02/19/23 12:25 Analyzed 02/17/23 03:37	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)	esel Range Orga Result <49.9 Result <49.9 <49.9	Qualifier U Qualifier U U *1 U	RL 49.9 (GC) RL 49.9 49.9 49.9	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 03:37 02/17/23 03:37	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) Surrogate	Result <49.9	Qualifier U Qualifier U U *1 U	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 49.9	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 03:37 02/17/23 03:37 02/17/23 03:37	1 1 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	Result <49.9	Qualifier U Qualifier U U *1 U	RL 49.9 (GC) RL 49.9 49.9 49.9 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 03:37 02/17/23 03:37 02/17/23 03:37 Analyzed	1 Dil Fac 1 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 o-Terphenyl	Result <49.9	Qualifier U Qualifier U U *1 U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 49.9 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	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 0 <i>Dil Fac</i> 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 <49.9	Qualifier U Qualifier U U *1 U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 49.9 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	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 0 <i>Dil Fac</i> 1

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Project/Site: EVGSAU Sat 6 Mobile Tester

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

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

[Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)		5
880-24332-A-1 MB	Method Blank	88	86	·	-
880-24648-A-1-B MS	Matrix Spike	104	94		6
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		8
MB 880-46437/5-A	Method Blank	98	88		U
Surrogate Legend					9
BFB = 4-Bromofluorobe	nzene (Surr)				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
4624-A-7-D MS	Matrix Spike	85	91	
4624-A-7-E MSD	Matrix Spike Duplicate	99	107	
94-1	SS05	91	98	
46409/2-A	Lab Control Sample	98	113	
80-46409/3-A	Lab Control Sample Dup	85	99	
380-46409/1-A	Method Blank	85	108	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec

Limits

р

%Rec

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 46437

Prep Batch: 46437

Lab Sample ID: 880-24332-A-1 MB
Matrix: Solid
Analysis Batch: 46371

-								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			02/15/23 18:50	1
Toluene	<0.00200	U	0.00200	mg/Kg			02/15/23 18:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			02/15/23 18:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			02/15/23 18:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			02/15/23 18:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			02/15/23 18:50	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 _ 130		-		02/15/23 18:50	1
1,4-Difluorobenzene (Surr)	86		70 - 130				02/15/23 18:50	1

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

Analysis Batch: 46371

	MB	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	LCS	LCS	
Analyte	 	Added	Result	Qualifier	Unit

Benzene	0.100	0.09855	mg/Kg	99	70 - 130	
Toluene	0.100	0.1014	mg/Kg	101	70 - 130	
Ethylbenzene	0.100	0.09828	mg/Kg	98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1950	mg/Kg	97	70 - 130	
o-Xylene	0.100	0.09407	mg/Kg	94	70 - 130	

	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			Clier	nt San	ple ID:	Lab Contro Prep 1	l Sampl Type: To		
Analysis Batch: 46371							Prep	Batch:	46437
	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

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	ple ID:	Lab Contro	I Sampl	e Dup
Matrix: Solid									Prep 1	Type: 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)			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									Prep 1	Гуре: То	tal/NA
Analysis Batch: 46371									Prep	Batch:	46437
-	Sample	Sample	Spike	MS	MS				%Rec		
Arrahata	- · ·	0			0	11 14	_	0/ D	1		

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 Analysis Batch: 46371

Analysis Batch: 46371									Prep	Batch:	46437
	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								

70 - 130

1,4-Difluorobenzene (Surr)

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

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Lab Sample ID: MB 880-46409/1-A Matrix: Solid Analysis Batch: 46479		MD				Client Sa	mple ID: Method Blank Prep Type: Total/NA Prep Batch: 46409		
		MB			_				
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									

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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

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

Lab Sample ID: MB 880-46409/1-A										Client S	ample ID:	Method	Blan
Matrix: Solid											Prep 1	Type: To	otal/N/
Analysis Batch: 46479											Prep	Batch:	46409
		MB	MB										
Analyte	R	esult	Qualifier	F	RL	Unit		D	Ρ	repared	Analyz	ed	Dil Fa
Diesel Range Organics (Over C10-C28)	<	\$50.0	U	50	.0	mg/K	g		02/1	5/23 11:56	02/16/23	19:48	
Oll Range Organics (Over C28-C36)	<	\$50.0	U	50	.0	mg/K	g		02/1	5/23 11:56	02/16/23	19:48	
		ΜВ	МВ										
Surrogate	%Reco	very	Qualifier	Limits					Р	repared	Analyz	ed	Dil Fa
1-Chlorooctane		85		70 - 130)			-	02/1	5/23 11:56	02/16/23	19:48	
o-Terphenyl		108		70 - 130	1				02/1	5/23 11:56	6 02/16/23	19:48	
Lab Sample ID: LCS 880-46409/2-A								CI	ient	Sample	ID: Lab C	ontrol S	ampl
Matrix: Solid										oumpic		Type: To	
Analysis Batch: 46479												Batch:	
analysis Datch. 40475				Spike	LCS	LCS					%Rec	Daten.	-0-0
Analyte				Added		Qualifier	Unit		D	%Rec	Limits		
Analyte Gasoline Range Organics				1000	1045	Quaimer			_	104	70 - 130		
GRO)-C6-C10				1000	1040		mg/Kg			104	10 - 130		
Diesel Range Organics (Over				1000	1061		mg/Kg			106	70 - 130		
C10-C28)											10 - 100		
,													
		LCS											
	Recovery		lifier	Limits									
1-Chlorooctane	Recovery 98		lifier	70 - 130									
Surrogate %R 1-Chlorooctane p-Terphenyl	Recovery		lifier										
1-Chlorooctane o-Terphenyl	Recovery 98 113		lifier	70 - 130			CI	iont	Sam	nle ID: I	ah Contro	l Samn	
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-46409/3-/	Recovery 98 113		lifier	70 - 130			CI	ient S	Sam	iple ID:	Lab Contro	-	
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid	Recovery 98 113		lifier	70 - 130			CI	ient (Sam	iple ID: I	Prep 1	Type: To	otal/N
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid	Recovery 98 113		lifier	70 - 130 70 - 130			CI	ient (Sam	iple ID:	Prep Prep	-	otal/N 4640
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479	Recovery 98 113		lifier	70 - 130 70 - 130 Spike		LCSD		ient \$		-	Prep 1 Prep %Rec	Type: To Batch:	otal/N 4640 RP
d-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte	Recovery 98 113		lifier	70 - 130 70 - 130 Spike Added	Result	LCSD Qualifier	Unit	ient	Sam	%Rec	Prep Prep %Rec Limits	RPD	otal/N 4640 RP Lim
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics	Recovery 98 113		lifier	70 - 130 70 - 130 Spike				ient \$		-	Prep 1 Prep %Rec	Type: To Batch:	otal/N 4640 RP Lim
I-Chlorooctane b-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Basoline Range Organics GRO)-C6-C10	Recovery 98 113		lifier	70 - 130 70 - 130 Spike Added 1000	Result 893.1	Qualifier	- <mark>Unit</mark> mg/Kg	ient :		%Rec 89	Prep Prep %Rec Limits	Type: To Batch: RPD 16	tal/N 4640 RP Lim 2
I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Recovery 98 113		lifier	70 - 130 70 - 130 Spike Added	Result	Qualifier	Unit	ient :		%Rec	Prep Prep %Rec Limits 70 - 130	RPD	tal/N 4640 RP Lim 2
I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Recovery 98 113	Qual		70 - 130 70 - 130 Spike Added 1000	Result 893.1	Qualifier	- <mark>Unit</mark> mg/Kg	ient s		%Rec 89	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 16	tal/N 4640 RP Lim 2
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Recovery 98 113 A	Qual		70 - 130 70 - 130 Spike Added 1000	Result 893.1	Qualifier	- <mark>Unit</mark> mg/Kg	ient t		%Rec 89	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 16	4640 RP <u>Lim</u> 2
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R	Recovery 98 113 A LCSD Recovery	Qual		70 - 130 70 - 130 Spike Added 1000 1000	Result 893.1	Qualifier	- <mark>Unit</mark> mg/Kg	ient :		%Rec 89	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 16	4640 RP Lim
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	Recovery 98 113 A LCSD Recovery 85	Qual		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 893.1	Qualifier	- <mark>Unit</mark> mg/Kg	ient t		%Rec 89	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 16	tal/N 4640 RP Lim 2
I-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R I-Chlorooctane	Recovery 98 113 A LCSD Recovery	Qual		70 - 130 70 - 130 Spike Added 1000 1000	Result 893.1	Qualifier	- <mark>Unit</mark> mg/Kg	ient :		%Rec 89	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 16	otal/N
I-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R I-Chlorooctane -Terphenyl	LCSD Recovery 85 99	Qual		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 893.1	Qualifier	- <mark>Unit</mark> mg/Kg	ient :		%Rec 89 85	Prep 7 Prep %Rec Limits 70 - 130 70 - 130	Type: To Batch: RPD 16 22	0tal/NJ 4640 RP Lim 2 2
-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate -Chlorooctane -Terphenyl Lab Sample ID: 880-24624-A-7-D MS	LCSD Recovery 85 99	Qual		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 893.1	Qualifier	- <mark>Unit</mark> mg/Kg	ient :		%Rec 89 85	Prep 7 Prep %Rec Limits 70 - 130 70 - 130	Type: To Batch: <u>RPD</u> 16 22 : Matrix	tal/N. 4640 RP Lim 2 2
I-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-24624-A-7-D MS Matrix: Solid	LCSD Recovery 85 99	Qual		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 893.1	Qualifier	- <mark>Unit</mark> mg/Kg	ient :		%Rec 89 85	Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To Batch: 16 22 : Matrix Type: To	stal/N. 4640 RP Lim 2 2 2 2 3
I-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-24624-A-7-D MS Matrix: Solid	LCSD Recovery 85 99	Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 1000 70 - 130 70 - 130	Result 893.1 849.0	Qualifier *1	- <mark>Unit</mark> mg/Kg	ient :		%Rec 89 85	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep	Type: To Batch: <u>RPD</u> 16 22 : Matrix	spik
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate p-Terphenyl Lab Sample ID: 880-24624-A-7-D MS Matrix: Solid Analysis Batch: 46479	Recovery 98 113 A LCSD Recovery 85 99 S Sample	Qual LCSJ Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 893.1 849.0 MS	Qualifier *1	- <mark>Unit</mark> mg/Kg mg/Kg	ient :	<u>D</u>	%Rec 89 85 Client	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep %Rec	Type: To Batch: 16 22 : Matrix Type: To	4640 RP Lim 2 2 Spike
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate p-Terphenyl Lab Sample ID: 880-24624-A-7-D MS Matrix: Solid Analysis Batch: 46479	LCSD LCSD Recovery 85 99 S Sample Result	Qual LCSJ Qual Sam Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 893.1 849.0 MS Result	Qualifier *1	Unit	ient :		%Rec 89 85 Client	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 970 - 130 Prep %Rec Limits	Type: To Batch: 16 22 : Matrix Type: To	spik
-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-46409/3-/ Matrix: Solid Analysis Batch: 46479 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R -Chlorooctane D-Terphenyl Lab Sample ID: 880-24624-A-7-D MS Matrix: Solid Analysis Batch: 46479	Recovery 98 113 A LCSD Recovery 85 99 S Sample	Qual LCSJ Qual Sam Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 893.1 849.0 MS	Qualifier *1	- <mark>Unit</mark> mg/Kg mg/Kg	ient :	<u>D</u>	%Rec 89 85 Client	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep %Rec	Type: To Batch: 16 22 : Matrix Type: To	stal/N 4640 RP Lim 2 2 2 2 2 2

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

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

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

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

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

Lab Sample ID: 880-24624-A-	-7-E MSD					(Client S	ample II	D: Matrix S		
Matrix: Solid										Type: To	
Analysis Batch: 46479		. .	• "							Batch:	
		Sample	Spike		MSD		_	~ -	%Rec		RP
Analyte		Qualifier	Added		Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Lim
Gasoline Range Organics	<49.9	U	1000	1044		mg/Kg		100	70 - 130	2	2
GRO)-C6-C10	.10.0	11+4	4000	1100				100	70 400	10	0
Diesel Range Organics (Over C10-C28)	<49.9	U ^1	1000	1103		mg/Kg		109	70 - 130	16	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
I-Chlorooctane	99		70 - 130	-							
o-Terphenyl	107		70 - 130								
Lab Sample ID: MB 880-4645 Matrix: Solid Analysis Batch: 46551	99/1-A	МВ МВ						Client	Sample ID: Prep	Method Type: S	
Analyte	P	esult Qualifier		RL	Unit		DI	Prepared	Analyz	od	Dil Fa
Chloride		<5.00 U		5.00	0.111 mg/K	(g		Teparea	02/16/23		Dirte
Lab Sample ID: LCS 880-464	59/2-A						Clien	t Sample) ID: Lab C	ontrol S	ampl
Matrix: Solid										Type: S	
Analysis Batch: 46551											
			Spike		LCS		_		%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	238.5		mg/Kg		95	90 - 110		
Lab Sample ID: LCSD 880-46	459/3-A					Cli	ent Sar	mple ID:	Lab Contro	ol Sampl	le Du
Matrix: Solid									Prep	Type: S	olub
Analysis Batch: 46551			Spike	LCSD	LCSD				%Rec		RF
Analysis Batch: 46551			•								
Analysis Batch: 46551 Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lin

Prep Type: Soluble

Analysis Batch: 46551											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	11.1		251	262.5		mg/Kg		100	90 - 110		
Lab Sample ID: 890-4094-1 MSD									Client Sar	mple ID:	SS05
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 46551											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	11.1		251	267.7		mg/Kg		102	90 - 110	2	20

Eurofins Carlsbad

Matrix: Solid

QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester Page 80 of 146

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

GC	VOA	

Analysis Batch: 46371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-4094-1	SS05	Total/NA	Solid	8021B	46437
380-24332-A-1 MB	Method Blank	Total/NA	Solid	8021B	
MB 880-46437/5-A	Method Blank	Total/NA	Solid	8021B	46437
LCS 880-46437/1-A	Lab Control Sample	Total/NA	Solid	8021B	46437
LCSD 880-46437/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46437
880-24648-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	46437
880-24648-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46437
Lab Sample ID 890-4094-1	Client Sample ID	Prep Type Total/NA	Matrix	Method	Prep Batc
Lab Sample ID	•	Ргер Туре	Matrix	Method	Prep Batch
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	
nalysis Batch: 46513					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4094-1	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

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	Prep Type	Matrix	Method	Prep Batch
890-4094-1	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46459

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

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	Prep Type Soluble	Matrix	Method	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	Prep Type	Matrix	Method	Prep Batch	
890-4094-1	SS05	Soluble	Solid	300.0	46459	
1B 880-46459/1-A	Method Blank	Soluble	Solid	300.0	46459	8
CS 880-46459/2-A	Lab Control Sample	Soluble	Solid	300.0	46459	
CSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46459	9
90-4094-1 MS	SS05	Soluble	Solid	300.0	46459	
390-4094-1 MSD	SS05	Soluble	Solid	300.0	46459	

Job ID: 890-4094-1

Eurofins Carlsbad

SDG: Lea County NM

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

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			4.99 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

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

Lab Sample ID: 890-4094-1

Matrix: Solid

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		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: EVGSAU	Sat 6 Mobile Tester				: 890-4094-1 a County NM 2
Laboratory: Eurofi Unless otherwise noted, all a		ere covered under each acc	reditation/certification below.		3
Authority		rogram	Identification Number	Expiration Date	4
Texas	N	IELAP	T104704400-22-25	06-30-23	5
• •		out the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for which	J
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					11
					13
					14

Eurofins Carlsbad

.

Project/Site: EVGSAU Sat 6 Mobile Tester

Client: Ensolum

Job ID: 890-4094-1 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
	Environmental Protection Agency 'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Editio		
	= TestAmerica Laboratories, Standard Operating Procedure	i, November 1900 And its Opuales.	
Laboratory Re	eferences:		
EET MID =	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

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

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0 5 4 5 0 1 1 1 1 1 0 0

eurofins Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 **Environment Testing** Work Order No: Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Xenco EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 of Page www.xenco.com Work Order Comments Bill to: (if different) Kalei Jennings Kalei Jennings Project Manager: Program: UST/PST PRP Brownfields RRC Superfund Ensolum, LLC Ensolum, LLC Company Name: Company Name: State of Project: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 Address Reporting: Level II 🗋 Level III 🗋 PST/UST 📋 TRRP 📋 Level IV 🗍 Midland, TX 79701 Midland, TX 79701 City, State ZIP: City, State ZIP: Deliverables: EDD ADaPT Other: Email: kjennings@ensolum.com, dnikanorov@ensolum.com 817-683-2503 Phone: **Preservative Codes** ANALYSIS REQUEST EVGSAU Sat 6 Mobile Tester **Turn Around** Project Name: Pres. None: NO DI Water: H₂O Rush Routine 03D2057072 Project Number: Code MeOH: Me Cool: Cool Lea County, NM Due Date: Project Location: HNO: HN HCL: HC **Dmitry Nikanorov** TAT starts the day received by Sampler's Name: the lab, if received by 4:30pm NaOH: Na H2S04: H2 PO#: Parameters H₃PO₄: HP Yes No 600 SAMPLE RECEIPT Temp Blank: Wet Ice: No (EPA: 300.0) NaHSO4: NABIS -DD Yes Thermometer ID: Samples Received Intact: No Na2S2O3: NaSO3 Correction Factor: Cooler Custody Seals: Yes No N/A 4 Zn Acetate+NaOH: Zn NA Temperature Reading: Sample Custody Seals: Yes No 890-4094 Chain of Custody CHLORIDES NaOH+Ascorbic Acid: SAPC BTEX (8021 Corrected Temperature: TPH (8015) Total Containers: Grab/ # of Time Date Sample Comments Depth Sample Identification Matrix Sampled Sampled Comp Cont 0.5 Grab х х х SS05 S 2/8/2023 12:50 Incident Number 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Total 200.7 / 6010 200.8 / 6020: Hg: 1631/245.1/7470 /7471 TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be 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 of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Date/Time Received by: (Signature) Relinquished by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) X 50 13.73

Chain of Custody

Released to Imaging: 11/17/2023 11:23:02 AM

Revised Date: 08/25/2020 Rev. 2020.2

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

Job Number: 890-4094-1

SDG Number: Lea County NM List Source: Eurofins Carlsbad

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").

Job Number: 890-4095-1 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: 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").

14

Received by OCD: 8/10/2023 3:12:53 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: 8/10/2023 3:12:53 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 2:58:12 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

SDG: Lea County NM

Table of Contents

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

Qualifiers		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	
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		40
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

TNTC Too Numerous To Count

4

5

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

Job ID: 890-4097-1

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.

Project/Site: EVGSAU Sat 6 Mobile Tester

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

Sample Depth: 0.5

Client: Ensolum

Lab Sample ID: 890-4097-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/14/23 16:34	02/17/23 17:39	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/14/23 16:34	02/17/23 17:39	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/14/23 16:34	02/17/23 17:39	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		02/14/23 16:34	02/17/23 17:39	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/14/23 16:34	02/17/23 17:39	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/14/23 16:34	02/17/23 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			02/14/23 16:34	02/17/23 17:39	1
1,4-Difluorobenzene (Surr)	85		70 - 130			02/14/23 16:34	02/17/23 17:39	1
Method: TAL SOP Total BTEX -	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	mg/Kg			02/20/23 14:15	1
Method: SW846 8015 NM - Dies			· · · · · · · · · · · · · · · · · · ·	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Dies Analyte	Result	Qualifier	RL		D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Dies Analyte Total TPH		Qualifier	· · · · · · · · · · · · · · · · · · ·	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/20/23 15:10	Dil Fac
Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.9	Qualifier U anics (DRO)	(GC)	mg/Kg		<u>.</u>	02/20/23 15:10	1
Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte	Result <49.9 esel Range Orga Result	Qualifier U anics (DRO) Qualifier	RL 49.9 (GC) RL	mg/Kg Unit	D	Prepared	02/20/23 15:10 Analyzed	Dil Fac 1 Dil Fac
Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.9	Qualifier U anics (DRO) Qualifier	(GC)	mg/Kg		<u>.</u>	02/20/23 15:10	1
Method: SW846 8015 NM - Diese Analyte Fotal TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 esel Range Orga Result	Qualifier U anics (DRO) Qualifier U	RL 49.9 (GC) RL	mg/Kg Unit		Prepared	02/20/23 15:10 Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 esel Range Orga Result <49.9	Qualifier U Qualifier Qualifier U U	RL 49.9 (GC) RL 49.9	Unit mg/Kg		Prepared 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 13:40	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	Result <49.9 esel Range Orga Result <49.9 <49.9	Qualifier U Qualifier U Qualifier U U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 13:40 02/17/23 13:40	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U Qualifier U Qualifier U U U	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 13:40 02/17/23 13:40 02/17/23 13:40	1 Dil Fac 1 1 1
Method: SW846 8015 NM - Dies Analyte Fotal TPH Method: SW846 8015B NM - Die Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate I-Chlorooctane	Result <49.9	Qualifier U Qualifier U Qualifier U U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41 Prepared	02/20/23 15:10 Analyzed 02/17/23 13:40 02/17/23 13:40 02/17/23 13:40 Analyzed	1 Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Fotal TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl	Result <49.9	Qualifier U Qualifier U U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 20.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41 Prepared 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 13:40 02/17/23 13:40 02/17/23 13:40 Analyzed 02/17/23 13:40	1 Dil Fac 1 1 1 1 Dil Fac 1
Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <49.9 esel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery 100 105	Qualifier U Qualifier U U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 20.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41 Prepared 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 13:40 02/17/23 13:40 02/17/23 13:40 Analyzed 02/17/23 13:40	1 Dil Fac 1 1 1 1 Dil Fac 1

2/20/2023

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

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

_			
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4089-A-1-B MS	Matrix Spike	126	114
890-4089-A-1-C MSD	Matrix Spike Duplicate	132 S1+	104
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
Surrogate Legend			
BFB = 4-Bromofluorober	zene (Surr)		

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) Lab Sample ID **Client Sample ID** (70-130) 890-4097-1 SS06 100 105 890-4100-A-1-D MS Matrix Spike 113 110 890-4100-A-1-E MSD Matrix Spike Duplicate 109 107 LCS 880-46507/2-A Lab Control Sample 98 114 LCSD 880-46507/3-A Lab Control Sample Dup 114 125 MB 880-46507/1-A Method Blank 91 112

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-4097-1

SDG: Lea County NM

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

QC Sample Results

Matrix: Solid Analysis Batch: 46568							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		02/14/23 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/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									Prep	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		

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Matrix Spike

SDG: Lea County NM

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 890-4097-1

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

Lab Sample ID: 890-4089-A-1-E	3 MS									Client	Sample ID:	Matrix	Spike
Matrix: Solid											Prep T	ype: To	tal/NA
Analysis Batch: 46568											Prep	Batch:	46342
	Sample	Sam	ple	Spike		MS	MS				%Rec		
Analyte	Result	Qual	lifier	Added	F	Result	Qualifier	Unit	0	%Rec	Limits		
Ethylbenzene	<0.00202	U		0.100	0.0	09453		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene	<0.00403	U		0.200	0	0.2043		mg/Kg		102	70 - 130		
o-Xylene	<0.00202	U		0.100	0	0.1039		mg/Kg		104	70 - 130		
	MS	мs											
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	126			70 - 130									
1,4-Difluorobenzene (Surr)	114			70 - 130									
Lab Sample ID: 890-4089-A-1-C	: MSD								Client	Sample ID	: Matrix Sp	ike Dur	olicate
Matrix: Solid											Prep T		
Analysis Batch: 46568												Batch:	
	Sample	Sam	ple	Spike		MSD	MSD				%Rec		RPD
Analyte	Result	Qual	lifier	Added	F	Result	Qualifier	Unit	0	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	F2	0.0990	0	0.1032		mg/Kg		104	70 - 130	38	35
Toluene	<0.00202			0.0990		09209		mg/Kg		93	70 - 130	6	35
Ethylbenzene	<0.00202	U		0.0990	0.0	09634		mg/Kg		97	70 - 130	2	35
n-Xylene & p-Xylene	<0.00403			0.198		0.2071		mg/Kg		105	70 - 130	1	35
p-Xylene	<0.00202			0.0990		0.1053		mg/Kg		106	70 - 130	1	35
	MSD	MSD)										
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	132	S1+		70 - 130									
1,4-Difluorobenzene (Surr)	104			70 - 130									
ethod: 8015B NM - Diesel	Pango Or	nan	vice (DP										
	Trange Of	gui		0)(00)									
Lab Sample ID: MB 880-46507/	1-A									Client S	ample ID: N		
Matrix: Solid											Prep T		
Analysis Batch: 46558											Prep	Batch:	46507
		MB											
Analyte			Qualifier		RL		Unit		D	Prepared	Analyze		Dil Fac
Gasoline Range Organics GRO)-C6-C10	<	\$0.0	U		50.0		mg/K	9	02	/16/23 09:40	02/17/23 0	8:54	1
Diesel Range Organics (Over C10-C28)	<	<50.0	U		50.0		mg/Kg	9	02	/16/23 09:40	02/17/23 0	8:54	1
Oll Range Organics (Over C28-C36)	<	<50.0	U		50.0		mg/Kg	g	02	2/16/23 09:40	02/17/23 0	8:54	1
		ΜВ	МВ										
			Qualifier	Limi	ts					Prepared	Analyze	ed	Dil Fac
Surrogate	%Reco	very							02	2/16/23 09:40			
Surrogate 1-Chlorooctane	%Reco	91		70 -	130				02	/10/23 09.40	02/17/23 0	18:54	1
1-Chlorooctane	%Reco			70 - 70 -						2/16/23 09:40 2/16/23 09:40			1
I-Chlorooctane -Terphenyl		91							02	2/16/23 09:40	02/17/23 (08:54	1
-		91							02	2/16/23 09:40		08:54 ontrol S	1 ample

Analysis Batch: 46558

Analysis Batch: 46558							Prep	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)								

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

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

Lab Sample ID: LCS 990 46	507/2 A						Clion	t Sample		ontrol S	amplo	
Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) 3 Lab Sample ID: LCS 880-46507/2-A Matrix: Solid Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 46507 4 Surogate %Recoway Qualifier Limits 70.130 5 -7.chorocotane 9 70.130 6 7 -7.chorocotane 9 70.130 7 6 -7.chorocotane 9 70.130 7 7 -7.chorocotane 9 7 7 7 7 Analyte Spike LCSD LCSD LSD Prep Batch: 46507 7 Analyte Added Result Qualifier Unit 9 %Rec RPD 1 Gasoline Range Organics (CRO-)C-SC-10 1000 1076 mgi/kg 108 70.130 100 Diseal Range Organics (Over C10-C29) LCSD LCSD LCSD Spike MS MS %Rec RPD 1 100 Diseal Range Organics (Over C10-C29) LCSD LCSD LCSD LSD NS 1 1 1 1 1 1 1												
	Image Organics Client Sample ID: LCS 880-46507/2-A boild Client Sample ID: Lab Control Sample Prop Type: Total/NA Prep Batch: 46507 14 Image Organics Client Sample ID: Lab Control Sample Du H Client Sample ID: Lab Control Sample Du Prep Type: Total/NA Prep Batch: 46507 6 Image Organics Client Sample ID: Lab Control Sample Du H Name 7 Image Organics Client Sample ID: Lab Control Sample Du Prep Type: Total/NA Prep Batch: 46507 7 Image Organics Client Sample ID: Lab Control Sample Du Prep Type: Total/NA Prep Batch: 46507 9 Image Organics Client Sample ID: Lab Control Sample Du Prep Type: Total/NA Prep Batch: 46507 9 Image Organics Client Sample ID: Matrix Spike 1000 Image Organics Client Sample ID: Matrix Spike 11 Image Organics Client Sample ID: Matrix Spike Duplicate 11 Image Organics Client Sample ID: Matrix Spike Duplicate											
Alldiysis Daton. 40000												
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	98		70 - 130									
o-Terphenyl	114		70 - 130									
Lab Sample ID: LCSD 880-4	46507/3-A					Clie	nt Sam	nole ID:	Lab Contro	I Sampl	e Dup	
			Spike	LCSD	LCSD							
Analyte			-			Unit	D	%Rec		RPD		
Gasoline Range Organics												
Diesel Range Organics (Over			1000	1078		mg/Kg		108	70 - 130	8	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
			70 - 130									ì
o-Terphenyl	125		70 - 130									
Lab Sample ID: 890-4100-A	-1-D MS							Client	Sample ID	· Matrix	Spike	
								U			-	
Allarysis Batom House	Sample	Sample	Spike	MS	MS					Datom	4000.	
Analyte		•	-			Unit	D	%Rec				
Gasoline Range Organics					~~~~							
Diesel Range Organics (Over	<49.8	U	1000	1114		mg/Kg		110	70 - 130			
C10-C28)												
	MS	MS										
Surrogate												
1-Chlorooctane	113		70 - 130									
o-Terphenyl	110		70 - 130									
Lab Sample ID: 890-4100-A-	1-E MSD					CI	ient Sa	ample IC	D: Matrix Sp	oike Dup	olicate	
Matrix: Solid									Prep 1	Type: To	tal/NA	
Analysis Batch: 46558									Prep	Batch:	46507	

Analysis Batch: 40000									Prep	Batch:	40507
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1047		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	1079		mg/Kg		106	70 - 130	3	20
	MSD	MSD									

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 _ 130
o-Terphenyl	107		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										Client S	ample ID:		
Matrix: Solid											Prep	Type: S	
Analysis Batch: 46551													
	_	МВ						_	_				
Analyte	-		Qualifier		RL	Unit		<u>D</u>	P	repared	Analyz		Dil Fa
Chloride	<	5.00	U		5.00	mg/ł	g				02/16/23	21:05	
Lab Sample ID: LCS 880-46459/2-A								Cli	ient	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid											Prep	Type: S	olubl
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 880-46459/3-4	`						CI	iont S	Sam		Lab Contro	ol Samo	
Matrix: Solid									Juin			Type: S	
Analysis Batch: 46551											пер	Type. O	olubi
Analysis Baten. 40001				Spike	LCSD	LCSD					%Rec		RPI
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
				Added 250	Result 261.8	Qualifier	_ Unit mg/Kg		<u>D</u>	%Rec 105	Limits 90 - 110	RPD 9	Limi 20
Chloride						Qualifier			D	105	90 - 110	9	20
Chloride Lab Sample ID: 890-4094-A-1-E MS						Qualifier			<u>D</u>	105	90 - 110 Sample ID	9 9: Matrix	20 Spike
Chloride Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid						Qualifier			<u>D</u>	105	90 - 110 Sample ID	9	20 Spike
Chloride Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid	Sample	Samp	ble						<u>D</u>	105	90 - 110 Sample ID	9 9: Matrix	20 Spike
Chloride Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid Analysis Batch: 46551	Sample Result			250	261.8 MS				<u>D</u> D	105	90 - 110 Sample ID Prep	9 9: Matrix	20 Spike
Chloride Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid Analysis Batch: 46551 Analyte				250 Spike	261.8 MS	MS	mg/Kg		_	105	90 - 110 Sample ID Prep %Rec	9 9: Matrix	2 Spike
Chloride Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid Analysis Batch: 46551 Analyte Chloride	Result 11.1			250 Spike Added	261.8 MS Result	MS	mg/Kg	Clien		105 Client %Rec 100	90 - 110 Sample ID Prep %Rec Limits 90 - 110	9 9: Matrix Type: S	2 Spike Solubl
Chloride Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: 890-4094-A-1-F MSE	Result 11.1			250 Spike Added	261.8 MS Result	MS	mg/Kg	Clien		105 Client %Rec 100	90 - 110 Sample ID Prep %Rec Limits 90 - 110 D: Matrix Sj	9 9: Matrix Type: S pike Duj	2 Spike Soluble
Chloride Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: 890-4094-A-1-F MSE Matrix: Solid	Result 11.1			250 Spike Added	261.8 MS Result	MS	mg/Kg	Clien		105 Client %Rec 100	90 - 110 Sample ID Prep %Rec Limits 90 - 110 D: Matrix Sj	9 9: Matrix Type: S	2 Spike Soluble
Chloride Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: 890-4094-A-1-F MSE Matrix: Solid	Result 11.1	Quali	fier	250 Spike Added 251	261.8 MS Result	MS Qualifier	mg/Kg	Clien		105 Client %Rec 100	90 - 110 Sample ID Prep %Rec Limits 90 - 110 D: Matrix Sj	9 9: Matrix Type: S pike Duj	2 Spike soluble
Analyte Chloride Lab Sample ID: 890-4094-A-1-E MS Matrix: Solid Analysis Batch: 46551 Analyte Chloride Lab Sample ID: 890-4094-A-1-F MSE Matrix: Solid Analysis Batch: 46551 Analyte	Result 11.1	Quali Samp	fier	250 Spike Added	261.8 MS Result 262.5	MS Qualifier MSD	mg/Kg	Clien		105 Client %Rec 100	90 - 110 Sample ID Prep %Rec Limits 90 - 110 D: Matrix Sp Prep	9 9: Matrix Type: S pike Duj	Spike Soluble

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QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester Page 101 of 146

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

GC VOA

Prep Batch: 46342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
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	
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: 46568					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4097-1	SS06	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
analysis Batch: 46744					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4097-1	SS06	Total/NA	Solid	Total BTEX	
GC Semi VOA					·

Prep Batch: 46507

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4097-1	SS06	Total/NA	Solid	8015NM Prep	
MB 880-46507/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46507/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46507/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4100-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4100-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46558

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
890-4100-A-1-E MSD 		Iotal/NA	Solid	8015B NM	
- Lah Sample ID	Client Sample ID	Pren Tyne	Matrix	Method	Pron Bat

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

HPLC/IC

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Leach Batch: 46459

Lab Sample ID	Client Sample ID	Prep Type	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	

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	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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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

Released to Imaging: 11/17/2023 11:23:02 AM

		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: EVGSAU	Sat 6 Mobile Tester			Job ID: 890-4097-1 SDG: Lea County NM	2
Laboratory: Eurofi	ns Midland				
Unless otherwise noted, all a	nalytes for this laboratory	were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-22-25	06-30-23	E
The following analytes	are included in this report	, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not off	fer certification.				
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13

Eurofins Carlsbad

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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	n, November 1986 And Its Updates.	
TAL SOP =	TestAmerica Laboratories, Standard Operating Procedure		
Laboratory Re	ferences:		
EET MID =	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Laboratory References:

Sample Summary

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

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

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

Address:

Phone:

PO #:

3

eurofins Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 **Environment Testing** Work Order No: Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Xenco EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 of Page www.xenco.com Work Order Comments Kalei Jennings Project Manager: Kalei Jennings Bill to: (if different) Program: UST/PST PRP Brownfields RRC Superfund Ensolum, LLC Ensolum, LLC Company Name: Company Name: State of Project: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 Reporting: Level II] Level III] PST/UST] TRRP] Level IV City, State ZIP: Midland, TX 79701 Midland, TX 79701 City, State ZIP: Deliverables: EDD ADaPT Other: Email: kjennings@ensolum.com, dnikanorov@ensolum.com 817-683-2503 **Preservative Codes** ANALYSIS REQUEST EVGSAU Sat 6 Mobile Tester **Turn Around** Project Name: Pres. DI Water: H₂O Routine Rush None: NO 03D2057072 Project Number: Code Cool: Cool MeOH: Me Due Date: Lea County, NM Project Location: HCL: HC HNO:: HN **Dmitry Nikanorov** Sampler's Name: TAT starts the day received by the lab, if received by 4:30pm NaOH: Na H2SO4: H2 Parameters HaPOA: HP SAMPLE RECEIPT (es)No Temp Blank: Res Wet Ice: No 300.0) NaHSO4: NABIS Fes Samples Received Intact: No Thermometer ID: TOM Na2S2O3: NaSO3 Cooler Custody Seals: Yes No NA Correction Factor: CHLORIDES (EPA: Zn Acetate+NaOH: Zn Yes No N/A Temperature Reading C Sample Custody Seals: NaOH+Ascorbic Acid: SAPC 890-4097 Chain of Custody 5 Corrected Temperature: BTEX (8021 TPH (8015) **Total Containers:** Grab/ # of Date Time Sample Comments Matrix Depth Sample Identification Sampled Cont Sampled Comp х x S 12:55 0.5 Grab 1 X SS06 2/8/2023 Incident Number 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Total 200.7 / 6010 200.8 / 6020: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471 Circle Method(s) and Metal(s) to be 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 of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Date/Time Received by: (Signature) Relinguished by: (Signature) Received by: (Signature) Date/Time Relinguished by: (Signature) 1502 2 13:23

Chain of Custody

Released to Imaging: 11/17/2023 11:23:02 AM

PM

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 Carlsbad

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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

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	

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

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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 2:49:21 PM

JOB DESCRIPTION

EVGSAU Sat 6 Mobile Tester SDG NUMBER Lea County NM

JOB NUMBER

890-4098-1

RT OR nings olum d St. e 400 9701 21 PM

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Received by OCD: 8/10/2023 3:12:53 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

Laboratory Job ID: 890-4098-1

SDG: Lea County NM

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Sury	
Job ID: 890-4098-1	
SDG: Lea County NM	2

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	13
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

D 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: 890-4098-1 SDG: Lea County NM

Job ID: 890-4098-1

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

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

Client Sample ID: SS07

Date Collected: 02/08/23 13:00 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	< 0.00202	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 - 1	Total BTEX Calo	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
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/19/23 12:20	1
								1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					I
	• •	nics (DRO) Qualifier	<mark>(GC)</mark> RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	· · ·	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 02/16/23 09:47	Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U *1		mg/Kg	<u> </u>	02/16/23 09:47	02/17/23 18:10	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *1			<u>D</u>	· · · · · · · · · · · · · · · · · · ·		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U *1 U		mg/Kg	<u> </u>	02/16/23 09:47	02/17/23 18:10	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U *1 U	RL 49.9 49.9	mg/Kg	<u> </u>	02/16/23 09:47 02/16/23 09:47	02/17/23 18:10 02/17/23 18:10	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9	Qualifier U *1 U	RL 49.9 49.9 49.9	mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47	02/17/23 18:10 02/17/23 18:10 02/17/23 18:10 02/17/23 18:10	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane		Qualifier U *1 U	RL 49.9 49.9 49.9 Limits	mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared	02/17/23 18:10 02/17/23 18:10 02/17/23 18:10 02/17/23 18:10 Analyzed	Dil Fac 1 1 1 Dil Fac
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 <49.9 <49.9 <49.9 <49.9 %Recovery 79 77	Qualifier U *1 U Q Qualifier	RL 49.9 49.9 49.9 50.000 Limits 70 - 130 70 - 130	mg/Kg	<u> </u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared 02/16/23 09:47	02/17/23 18:10 02/17/23 18:10 02/17/23 18:10 02/17/23 18:10 <u>Analyzed</u> 02/17/23 18:10	Dil Fac 1 1 1 Dil Fac 1
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 o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	Result <49.9 <49.9 <49.9 <49.9 %Recovery 79 77 Chromatograp	Qualifier U *1 U Q Qualifier	RL 49.9 49.9 49.9 50.000 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared 02/16/23 09:47	02/17/23 18:10 02/17/23 18:10 02/17/23 18:10 02/17/23 18:10 <u>Analyzed</u> 02/17/23 18:10	Dil Fac 1 1 1 Dil Fac 1

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Lab Sample ID: 890-4098-1 Matrix: Solid 5

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

Prep Type: Total/NA

Prep Type: Total/NA

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

atrix:	Solid	

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

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
098-1	SS07	79	77	
9-A-1-C MS	Matrix Spike	105	93	
99-A-1-D MSD	Matrix Spike Duplicate	101	90	
0-46509/2-A	Lab Control Sample	100	90	
80-46509/3-A	Lab Control Sample Dup	100	99	
380-46509/1-A	Method Blank	100	94	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

QC Sample Results

Matrix: Solid Analysis Batch: 46568							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		02/14/23 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		121	70 - 130
Toluene 0.100	0.1106	mg/ł	Κg	111	70 - 130
Ethylbenzene 0.100	0.1137	mg/ł	Κg	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

Analysis Batch: 46568									Prep	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

3

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

	Added	Result	Qualifier	Unit	
	0.100	0.1054		mg/Kg	
	0.100	0.1042		mg/Kg	
	0.100	0.1073		mg/Kg	
	0.200	0.2301		mg/Kg	
	0.100	0.1157		mg/Kg	
LCSD LCSD					

QC Sample Results

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

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

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Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 46568									Prep	Batch:	46342
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00202	U	0.100	0.09453		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene	<0.00403	U	0.200	0.2043		mg/Kg		102	70 - 130		
o-Xylene	<0.00202	U	0.100	0.1039		mg/Kg		104	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	126		70 - 130								
1,4-Difluorobenzene (Surr)	114		70 - 130								
Lab Sample ID: 890-4089-A-	1-C MSD					Cli	ient Sa	ample IC): Matrix Sp	nike Dur	licate
Matrix: Solid										ype: To	
Analysis Batch: 46568										Batch:	
,	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
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
			0.0990	0.1053		mg/Kg		106	70 - 130	1	35
o-Xylene	<0.00202	0	0.0990	0000							
o-Xylene		MSD	0.0990	0.1000							
		MSD	Limits								
o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	MSD %Recovery	MSD									

Lab Sample ID: MB 880-46509/1-A Matrix: Solid Analysis Batch: 46560

	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	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			02/16/23 09:47	02/17/23 08:54	1

70 - 130

94

o-Terphenyl	
Lab Sample ID: LCS 880-46509/2-A	
Matrix: Solid	

Analysis Batch: 46560

Analysis Batch: 46560							Prep	Batch: 46509
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	825.8		mg/Kg		83	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	912.4		mg/Kg		91	70 - 130	
C10-C28)								

Prep Type: Total/NA

Client Sample ID: Method Blank

02/16/23 09:47 02/17/23 08:54

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46509

1

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 880-465	09/2-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	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	90		70 - 130								
Lab Sample ID: LCSD 880-46	500/2 1					Cliev	t Sam		_ab Contro	l Sample	0 Du
Matrix: Solid	505/5-A					Oller	it Gan			ype: Tot	
Analysis Batch: 46560										Batch:	
Analysis Batch. 40300			Spike		LCSD				%Rec	Daten.	RP
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			1000		*1	mg/Kg		113	70 - 130	31	2
(GRO)-C6-C10			1000	1120	1	mg/rtg		115	70 - 150	51	2
Diesel Range Organics (Over			1000	1011		mg/Kg		101	70 - 130	10	2
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	99		70 - 130								
Lab Sample ID: 890-4099-A-1	I-C MS							Client	Sample ID:		
Matrix: Solid										ype: Tot	
Analysis Batch: 46560										Batch:	4650
	-	Sample	Spike		MS		_		%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.8	U *1	1000	1085		mg/Kg		105	70 - 130		
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8	Ш	1000	886.5		mg/Kg		87	70 - 130		
C10-C28)	\$43.0	0	1000	000.0		ilig/itg		07	70 - 150		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	93		70 - 130								
Lab Sample ID: 890-4099-A-1						CI	ent S	amnlo IF	: Matrix Sp	niko Dun	licat
Matrix: Solid										ype: Tot	
Analysis Batch: 46560										Batch:	
Analysis Butoff. 40000	Sample	Sample	Spike	MSD	MSD				%Rec	Saton.	RPI
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics	<49.8		1000	1111		mg/Kg		107	70 - 130	2	2
(GRO)-C6-C10						5 5					
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	863.0		mg/Kg		85	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
Surrogate 1-Chlorooctane	% Recovery 101	Qualifier	Limits 70 - 130								

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 Matrix: Solid											Cheffe	Sample ID: Prep	Type: S	
Analysis Batch: 46553														
		MB	MB											
Analyte	R	esult	Qualifier		RL		Unit	:	D	P	repared	Analyz	zed	Dil Fac
Chloride	~	<5.00	U		5.00		mg/	Kg				02/16/23	23:40	1
Lab Sample ID: LCS 880-46462/2-A									Cli	ent	Sample	e ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 46553														
				Spike		LCS	LCS					%Rec		
Analyte				Added			Qualifier	Unit		D	%Rec	Limits		
Chloride				250		240.4		mg/Kg			96	90 - 110		
Lab Sample ID: LCSD 880-46462/3	-A							CI	ient S	Sam	ple ID:	Lab Contro	ol Sampl	e Dur
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 46553														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		238.9		mg/Kg			96	90 - 110	1	20
Lab Sample ID: 890-4098-1 MS												Client Sa	mple ID:	SS0 7
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 46553														
	Sample	Sam	ple	Spike		MS	MS					%Rec		
Analyte	Result	Qual	ifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	114			253		360.3		mg/Kg			97	90 - 110		
Chionde												Client Sa		5507
												Chefit Sa	inple iD.	0001
													Type: S	
Lab Sample ID: 890-4098-1 MSD Matrix: Solid														
Lab Sample ID: 890-4098-1 MSD	Sample	Sam	ple	Spike		MSD	MSD							
Lab Sample ID: 890-4098-1 MSD Matrix: Solid	Sample Result			Spike Added			MSD Qualifier	Unit		D	%Rec	Prep		oluble

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QC Association Summary

Client: Ensolum Project/Site: EVGSAU Sat 6 Mobile Tester Page 121 of 146

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

GC VOA

Prep Batch: 46342

ep 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: 46568					
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
analysis Batch: 46745					
Lab Sample ID	Client Sample ID	Prep Type	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					
l ah Sample ID	Client Sample ID	Bron Type	Matrix	Method	Pron Batch

Lab Sample ID Client Sample ID Prep Type Method Prep Batch Matrix 890-4098-1 SS07 Total/NA Solid 8015 NM

HPLC/IC

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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	

QC Association Summary

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

SS07

HPLC/IC (Continued)

890-4098-1 MSD

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					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Soluble

Solid

—			
Lab Sample ID	Client Sample ID	Prep Type	Matrix
890-4098-1	SS07	Soluble	Solid
MB 880-46462/1-A	Method Blank	Soluble	Solid
LCS 880-46462/2-A	Lab Control Sample	Soluble	Solid
LCSD 880-46462/3-A	Lab Control Sample Dup	Soluble	Solid
890-4098-1 MS	SS07	Soluble	Solid

300.0

300.0

300.0

300.0

300.0

300.0

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46462

46462

46462

46462

46462

46462

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

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

Page 123 of 146

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

Lab Sample ID: 890-4098-1

Matrix: Solid

		Accreditation/C	ertification Summary			
Client: EnsolumJob ID: 890-4098Project/Site: EVGSAU Sat 6 Mobile TesterSDG: Lea County N						
Laboratory: Eurofi	ins Midland					
Unless otherwise noted, all a	analytes for this laborator	ry were covered under each acc	reditation/certification below.			
Authority		Program	Identification Number	Expiration Date		
Texas		NELAP	T104704400-22-25	06-30-23		
The following analytes	are included in this repo	rt, but the laboratory is not certi	fied by the governing authority. This list ma	ay include analytes for which	5	
the agency does not of						
Analysis Method	Prep Method	Matrix	Analyte			
8015 NM		Solid	Total TPH			
Total BTEX		Solid	Total BTEX			
					8	
					9	
					10	
				•	10	
				-	13	

Eurofins Carlsbad

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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
	Environmental Protection Agency		
SW846 =	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Editi	on, November 1986 And Its Updates.	
TAL SOP	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

Released to Imaging: 11/17/2023 11:23:02 AM

Sample Summary

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4098-1	SS07	Solid	02/08/23 13:00	02/13/23 15:02	0.5	4
						5
						8
						9
						12
						13

eurofins Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 **Environment Testing** Work Order No: Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Xenco EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 www.xenco.com Page Work Order Comments Bill to: (if different) Kalei Jennings Project Manager: Kalei Jennings Program: UST/PST PRP Brownfields RRC Superfund Company Name: Ensolum, LLC Ensolum, LLC Company Name: State of Project: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 Address: Reporting: Level II 🗍 Level III 🗍 PST/UST 🗍 TRRP 🗍 Level IV Midland, TX 79701 Midland, TX 79701 City, State ZIP: City, State ZIP: Deliverables: EDD ADaPT Other: Email: kjennings@ensolum.com, dnikanorov@ensolum.com 817-683-2503 Phone: **Preservative Codes** ANALYSIS REQUEST **EVGSAU Sat 6 Mobile Tester Turn Around** Project Name: Pres. ✓ Routine Rush None: NO DI Water: H₂O 03D2057072 Project Number: Code Cool: Cool MeOH: Me Lea County, NM Due Date: **Project Location:** HCL: HC HNO3: HN **Dmitry Nikanorov** Sampler's Name: TAT starts the day received by the lab, if received by 4:30pm NaOH: Na H2S04: H2 PO# Parameters HaPOA: HP Nes No Yas SAMPLE RECEIPT Temp Blank: Wet Ice: No CHLORIDES (EPA: 300.0) NaHSO4: NABIS Ves) Samples Received Intact: No Thermometer ID: 90 Na2S2O3: NaSO3 Cooler Custody Seals: Yes No (N/A Correction Factor: Zn Acetate+NaOH: Zn 5 Sample Custody Seals: Yes No N/A Temperature Reading: 890-4098 Chain of Custod NaOH+Ascorbic Acid: SAPC Corrected Temperature: TPH (8015) BTEX (8021 **Total Containers:** Grab/ Date Time # of Sample Comments Depth Sample Identification Matrix Cont Sampled Sampled Comp х S 0.5 Grab x x SS07 2/8/2023 13:00 1 Incident Number 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Total 200.7 / 6010 200.8 / 6020: Hg: 1631 / 245.1 / 7470 / 7471 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be 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 of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated Received by: (Signature) Date/Time Relinguished by: (Signature) Received by: (Signature) Date/Time Relinguished by: (Signature) 2-13-23

Chain of Custody

AM

Released to Imaging: 11/17/2023 11:23:02.

Revised Date: 08/25/2020 Rev. 2020 2

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	

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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").

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Job Number: 890-4098-1

SDG Number: Lea County NM List Source: Eurofins Midland

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



APPENDIX D

ROE Request for Remediation Form and ROE Permit

Released to Imaging: 11/17/2023 11:23:02 AM



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

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).

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.

PERMITTEE SIGNATURE

DATE: ____

Bryce Wagoner

HSE Specialist

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

Received by OCD: 8/10/2023 3:12:53 PM

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



Stephanie Garcia Richard Commissioner of Public Lands

RIGHT OF ENTRY REQUEST FOR REMEDIATION

Address City, State, Zi	ne p n:				
Purpose of rec	luest:				
Section	Township I				
Qtr/Qtr	County				
GPS Location	(decimal degrees): Lati	tude	W	Longitude	N
If this is a rem	ediation for a spill pleas	se attach a cop	oy of the	e OCD C-141 form	ι.
Is the complet	ed C-141 attached? Yes	No No			
Square footag	e of spill impacted surfa	.ce:			
Estimated squ	are footage of total distu	irbance:			
Reclamation I	Plan (<i>attach addl. sheet</i> į	• • • •			
Driving direct	ions from nearest state h	nighway or ro	ad (<i>atta</i>	cch a map of the loc	cation):
Lease number	associated with the RO	E request:			
Well Name ar	d/or Operator (if applica	able):			
Time expected	d to complete remediation	on:			
Personnel pres	sent on State Land				
Equipment &	materials present on Sta	te Land			
\$50.00 applic	ation fee and \$500.00 p	oermit amoui	nt (base	d on 180 days) ren	ewable for up to 3 yrs.
Payable to:	The Commissioner of I P. O. Box 1148 Santa Fe, NM 87504-1				

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

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APPENDIX E

C-141

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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 Page 139cof 146

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	(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 10.0						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							6.23		

TOTAL RELEASE VOLUME (bbls): 20.3

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

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

District III

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

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

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

CONDITIONS

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 B		Condition Date
jharimo	n None	2/20/2023

Received by OCD: 8/10/2023 3:12:53 PM Form C-141 State of New Mexico

Oil Conservation Division

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ncident ID	NAPP2304744550	
District RP		
acility 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>0-100(</u> ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	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

Page 3

- 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.

Received by OCD: 8/10/2023 3:12:53 PM State of New MexicoPage 4Oil Conservation Division	Incident ID	NAPP2304744550
Page 4 Oil Conservation Division		
	District RP	
	Facility ID	
	Application ID	
regulations all operators are required to report and/or file certain release notifications and perfor public health or the environment. The acceptance of a C-141 report by the OCD does not reliev failed to adequately investigate and remediate contamination that pose a threat to groundwater, addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for c and/or regulations. Printed Name: Bryce Wagoner Title: Permian HSE Special Signature: Date: 8/4/23 email: Bryce.Wagoner@mavresources.com Telephone: 928-241-	e the operator of liability sh surface water, human health ompliance with any other fe	hould their operations have n or the environment. In
OCD Only Received by: <u>Shelly Wells</u> Date: 8	/11/2023	

Received by OCD: 8/10/2023 3:12:53 PM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	NAPP2304744550
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 \boxtimes Estimated volume of material to be remediated

Page 5

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
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: 8/4/23 email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862
email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862
OCD Only
Received by: <u>Shelly Wells</u> Date: <u>8/11/2023</u>
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Nelson Velez Date: 11/17/2023

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	250706
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written. Remediation Due date updated to February 15, 2023 to submit it appropriate or final closure report.	11/17/2023

CONDITIONS

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Action 250706