

Environmental Site Investigation Report and Remediation Plan

Property:

2D-1 Well Tie/Bruce R Sullivan #2 (7/29/21) Unit Letter I, S23 T28N R10W San Juan County, New Mexico

NM EMNRD OCD Incident ID No. NAPP2121054964

May 25, 2022 Ensolum Project No. 05A1226149

Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Ranee Deechilly Project Manager

umm

Kyle Summers Senior Project Manager

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 606 South Rio Grande, Suite A | Aztec, NM 87410 | ensolum.com



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Environmental Site Investigation Report and Remediation Plan Enterprise Field Services, LLC 2D-1 Well Tie/Bruce R Sullivan #2 (7/29/21) May 25, 2022

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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)			
Site Name:	2D-1 Well Tie/Bruce R Sullivan #2 (7/29/21) (Site)			
NM EMNRD OCD Incident ID No.	NAPP2121054964			
Location:	36.644538° North, 107.857891° West Unit Letter I, Section 23, Township 28 North, Range 10 West San Juan County, New Mexico			
Property:	Private			
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)			

On July 29, 2021, a release of natural gas was identified on the 2D-1 Well Tie/Bruce R Sullivan #2 pipeline. On August 9, 2021, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact. During remediation activities, water was encountered at approximately seven feet below grade surface (bgs). Five soil samples and one water sample were collected from the excavation. Soil laboratory analytical results indicated no constituent of concern (COC) concentrations above the applicable NM EMNRD OCD closure criteria. The initial water analytical results indicated a benzene concentration slightly above the applicable NM Water Quality Control Commission (WQCC) standards. To further evaluate COC concentrations in groundwater, Enterprise installed a temporary monitoring well at the Site during excavation backfill activities. A sample was collected from the temporary well and submitted for laboratory analysis. Based on the laboratory analytical results for the water sample, benzene, sulfate, and total dissolved solids (TDS) concentrations were identified above the applicable WQCC standards. In response to the groundwater COC exceedances Enterprise proposed to install additional temporary monitoring wells at the Site. Additional details regarding the excavation and water sampling activities are provide in the *Interim Characterization Report and Remediation Plan* (Ensolum, LLC (Ensolum), February 9, 2022)

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objectives

The primary objectives of the environmental site investigation (ESI) activities were to (i) delineate the extent of impact to groundwater; (ii) determine the hydraulic gradient; and (iii) determine if the impact to groundwater is naturally attenuating.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. To address activities related to oil and gas releases, the NM EMNRD OCD references NM Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Additionally, Ensolum utilized the NM WQCC Groundwater Quality Standards (GQSs) (NMAC 20.6.2 *Ground and Surface Water Protection*) to evaluate groundwater conditions.



Applicable closure criteria for soils remaining in place at the Site include:

Tier I Closure Criteria for Soils Impacted by a Release					
Constituent ¹	Method	Limit			
Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg			
TPH (GRO+DRO+MRO) ²	EPA SW-846 Method 8015	100 mg/kg			
BTEX ³	EPA SW-846 Method 8021 or 8260	50 mg/kg			
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg			

¹ – Constituent concentrations are in milligrams per kilogram (mg/kg).

² – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

³ – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

The New Mexico WQCC GQSs include the following:

New Mexico WQCC BTEX Standards for Groundwater				
Constituent ⁴	Limit			
Benzene	5 µg/L			
Toluene	1,000 μg/L			
Ethylbenzene	700 μg/L			
Total Xylenes	600 µg/L			

⁴ – Constituent concentrations are in micrograms per liter (μ g/L).

3.0 ENVIRONMENTAL SITE INVESTIGATION

On March 2, 2022, ESI activities were initiated at the Site. The soil boring/monitoring well locations are depicted on **Figure 3** of **Appendix A**. Prior to drilling, the soil boring locations were "daylighted" up to five feet bgs utilizing a hydro-excavator. Five soil borings were advanced utilizing a Geoprobe[®] track mounted direct-push drilling rig (from 5 feet bgs to termination). Regulatory correspondence is provided in **Appendix B**. Photographic documentation of the field activities is included in **Appendix C**.

3.1 Soil Boring and Monitoring Well Installation

On March 3, 2022, five soil borings were advanced at the Site utilizing a Geoprobe[®] track mounted directpush drilling rig. Soil samples were collected utilizing four-foot core barrel samplers. Samples and drill cuttings were observed to document visual and olfactory evidence of petroleum hydrocarbon impact. A field headspace analysis was conducted on each available soil sample interval by placing the portion of the sample designated for field screening into a plastic Ziplock[®] bag. The plastic bag was sealed, and the sample allowed to volatilize. The air above the sample, the headspace, was then evaluated using a photoionization detector (PID) capable of detecting volatile organic compounds (VOCs). The PID was calibrated utilizing an isobutylene standard prior to use in the field. Overall, PID readings ranged from zero parts per million (ppm) to 13.6 ppm (MW-1R @ 11'-12.5'). Field screening results are presented on soil boring logs included in **Appendix D**.

During the completion of each soil boring, a trained Ensolum scientist documented the subsurface lithology, color, and moisture content, and constructed a continuous profile of the soil column from the depth of hydroexcavation to the boring terminus. The lithology observed during the advancement of soil borings generally consisted of silty sand and sand. Detailed lithologic descriptions are presented on the soil boring logs included in **Appendix D**.

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Subsequent to advancement, the soil borings were completed as two-inch temporary monitoring wells. Due to topographical limitations, the monitoring wells are all located within the floodplain of the adjacent arroyo. The monitoring wells were completed as follows:

- Installation of 5 or 10 feet of two-inch diameter slotted polyvinyl chloride (PVC) well screen with a threaded bottom plug. This section of screen included a pre-packaged sand pack;
- Installation of an additional 5 feet of two-inch diameter, machine slotted (0.010 inch) schedule 40 PVC well screen assembly without a pre-packaged sand pack;
- Installation of schedule 40 PVC riser pipe to above the ground surface;
- Addition of graded silica sand for annular sand pack around the well screen from the bottom of the well to one to two feet above the top of the screen;
- Placement of hydrated bentonite above the sand to the surface; and
- Addition of a well compression cap.

The monitoring wells were developed by removing groundwater until the fluid appeared relatively free of fine-grained sediment.

3.2 Soil Sampling Program

Two soil samples from each soil boring were submitted for laboratory analyses from a combination of the following:

- The depth interval exhibiting the highest concentration of VOCs based on PID evidence.
- An interval exhibiting visual/olfactory evidence of impairment.
- The capillary fringe zone.
- From a change in lithology.
- From the bottom of the boring.

All soil samples were collected and placed in laboratory prepared glassware. Sample containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico, under proper chain-of-custody procedures.

3.3 Soil Laboratory Analytical Program

The soil samples collected during the ESI activities were analyzed for TPH GRO/DRO/MRO utilizing United States (U.S.) Environmental Protection Agency (EPA) SW-846 Method# 8015; BTEX utilizing EPA SW-846 Method #8021 or #8260; and chloride utilizing EPA Method #300.0.

A summary of the analytes, sample type, and U.S. EPA or other approved methods is presented in the following table:

Analytes	Sample Type	No. of Samples	Method
TPH GRO/DRO/MRO	Soil	10	EPA SW-846 8015
ВТЕХ	Soil	10	EPA SW-846 8021/8260
Chloride	Soil	10	EPA 300.0

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The soil analytical results for the ESI are included in **Table 1** (**Appendix E**). The executed chain-ofcustody forms and laboratory data sheets for the ESI are provided in **Appendix F**.

3.4 Soil Data Evaluation

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with soil samples collected from MW-1R and MW-2 through MW-5 to the New Mexico EMNRD OCD closure criteria. A map including the soil analytical results is provided as **Figure 4** of **Appendix A**.

- The laboratory analytical results for all soil samples collected from the borings/monitoring wells indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical result for all soil samples collected from the borings/monitoring wells indicate that total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for all soil samples collected from the borings/monitoring wells indicate total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for all soil samples collected from the borings/monitoring wells indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg.

4.0 **GROUNDWATER MONITORING**

4.1 Groundwater Sampling Program

Ensolum conducted groundwater sampling events during March and April 2022. The groundwater sampling program consisted of the collection of one groundwater sample from each of the monitoring wells. Regulatory correspondence is provided in **Appendix B**. The groundwater sampling program consisted of the following:

- Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well using an interface probe capable of detecting non-aqueous phase liquids (NAPL).
- Each two-inch diameter monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, one groundwater sample was collected from each monitoring well during each event.
- Low-flow or low-stress sampling refers to sampling methods that are intended to minimize the stress that is imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.
- During low-flow sampling, the groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are taken every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for three consecutive readings.

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• Groundwater samples were collected in laboratory supplied containers. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The groundwater samples were relinquished to the courier for HEAL of Albuquerque, New Mexico under proper chain-of-custody procedures.

4.2 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells were analyzed for VOCs utilizing U.S. EPA SW-846 Method #8260 and chloride utilizing EPA Method #300.0. Because chloride was not previously detected above closure standards, the groundwater samples collected during the April 2022 sampling event were not analyzed for chloride.

A summary of the analytes, sample matrix, sample frequency, and EPA-approved analytical methods are presented in the following table.

Analytes	Sample Matrix	No. of Samples	EPA Method		
VOCs	Groundwater	10	SW-846 8260		
Chloride	Groundwater	5	EPA 300.0		

The groundwater laboratory analytical results are summarized in **Table 2** and **Table 3** (**Appendix E**). The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix F**.

4.3 **Groundwater Flow Direction**

Each monitoring well was surveyed to determine top-of-casing (TOC) elevations. The groundwater flow direction at the Site is generally toward the northeast, with an apparent average gradient of approximately 0.007 feet per foot (ft/ft) across the Site.

Groundwater measurements collected during the March and April 2022 gauging events are presented in **Table 4** (**Appendix E**). Groundwater gradient maps prepared from the March and April 2022 gauging event data are included as **Figure 5A** and **Figure 5B**, respectively (**Appendix A**).

4.4 **Groundwater Data Evaluation**

Ensolum compared the laboratory analytical results or laboratory PQLs /RLs associated with the groundwater samples collected from monitoring wells during the March 2022 sampling event to the NM WQCC Human Health Standards (HHSs) and Domestic Water Supply Standards (DWSSs). The results of the groundwater sample analyses are summarized in **Table 2** and **Table 3** of **Appendix E**. The map with groundwater analytical results are provided as **Figure 6A** and **Figure 6B**, respectively, of **Appendix A**.

<u>VOCs</u>

The following discussion only includes the VOC constituents with an established WQCC standard. The remaining VOC constituents that indicated a reported concentration above the laboratory PQLs/ RLs are summarized in **Table 2** (**Appendix E**).

• The March and April 2022 analytical results for all monitoring wells samples do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 5 µg/L.

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- The March and April 2022 analytical results for all monitoring well samples do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 1,000 µg/L.
- The March and April 2022 analytical results for all monitoring well samples do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 700 µg/L.
- The March and April 2022 analytical results for all monitoring well samples do not indicate total xylene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 620 µg/L.
- The March and April 2022 analytical results for all monitoring well samples do not indicate naphthalene concentrations above the laboratory PQLs/RLs, which are below the WQCC HHS of 30 µg/L.

Chloride

- The March 2022 analytical results for all monitoring well samples indicate chloride concentrations ranging from 8.8 mg/L (MW-5) to 49 mg/L (MW-1R), which are below the WQCC DWSS of 250 mg/L.
- No data qualifier flags are associated with the March and April 2022 analytical results.

5.0 FINDINGS

Based on the evaluation of the analytical results from ESI and groundwater sampling activities, Ensolum presents the following findings:

- During the Site investigation activities, five soil borings were advanced at the Site and ten soil samples
 were collected from the soil borings. Based on the analytical results, COC concentrations were not
 identified above the applicable NM EMNRD closure criteria standards at any of the soil boring locations.
- The soil borings were completed as temporary groundwater monitoring wells. The groundwater samples collected from the monitoring wells during the March and April 2022 sampling events do not indicate COC concentrations above the applicable WQCC GQSs.
- Based on gauging data, the groundwater flow direction at the Site is generally toward the northeast, with an apparent average gradient of approximately 0.007 ft/ft across the Site.

6.0 **RECOMMENDATIONS AND REMEDIATION PLAN**

Based on the results of the ESI activities, Ensolum has the following recommendations:

- Report the ESI results to the NM EMNRD OCD.
- Depending on EMNRD OCD input, implement monthly groundwater sampling for four months (if groundwater maintains non-detect for BTEX) or implement quarterly groundwater sampling for one year (as referenced in 19.15.30.9 NMAC).
- Enterprise will sample for sulfides and TDS during the next sampling event to determine if the elevated levels are indicative of background conditions or if the concentrations have decreased.

7.0

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STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

7.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

7.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

7.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures

Received by OCD: 6/23/2022 9:04:00 AM









Released to Imaging: 5/17/2023 7:51:56 AM







Released to Imaging: 5/17/2023 7:51:56 AM



Released to Imaging: 5/17/2023 7:51:56 AM



APPENDIX B

Regulatory Correspondence

From:	Kyle Summers
То:	Landon Daniell; Ranee Deechilly
Subject:	Fwd: [EXTERNAL] FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W; 36.644538, -107.857891 - Incident # nAPP2121054964
Date:	Tuesday, May 10, 2022 10:46:24 AM

Kyle Summers Principal 903-821-5603 Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Tuesday, May 10, 2022 11:45:08 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>; Landon
Daniell <ldaniell@ensolum.com>
Subject: RE: [EXTERNAL] FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W;
36.644538, -107.857891 - Incident # nAPP2121054964

[**EXTERNAL EMAIL**]

Tom,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling. For whatever reason, the sample collection timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of the rescheduling may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

If you have any questions, please contact me via email at your convenience.

Thanks again

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@state.nm.us</u>

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur.

7:00-11:00 am & 12:00-4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, May 10, 2022 7:20 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>; Landon
Daniell <ldaniell@ensolum.com>
Subject: RE: [EXTERNAL] FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W;
36.644538, -107.857891 - Incident # nAPP2121054964

Nelson,

This email is a notification Enterprise will be conducting groundwater sampling/monitoring activities on May 12, 2022. Sampling activities are anticipated to take one day. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>
Sent: Tuesday, April 12, 2022 9:45 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Subject: RE: [EXTERNAL] FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W;
36.644538, -107.857891 - Incident # nAPP2121054964

[Use caution with links/attachments]

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling. For whatever reason, the sample collection timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of the rescheduling may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thanks again

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@state.nm.us</u>

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur. 7:00-11:00 am & 12:00-4:00 pm Fri.

From: Long, Thomas <<u>tilong@eprod.com</u>>
Sent: Tuesday, April 12, 2022 9:18 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>
Subject: FW: [EXTERNAL] FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W;
36.644538, -107.857891 - Incident # nAPP2121054964

Nelson,

The sample date is incorrect. We will be sampling beginning tomorrow April 13, 2022.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) <u>tjlong@eprod.com</u>



From: Long, Thomas
Sent: Tuesday, April 12, 2022 8:16 AM
To: 'Velez, Nelson, EMNRD' <<u>Nelson.Velez@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; 'Kyle Summers' <<u>ksummers@ensolum.com</u>>

Subject: FW: [EXTERNAL] FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W; 36.644538, -107.857891 - Incident # nAPP2121054964

Nelson,

This email is a notification that Enterprise will be conducting groundwater sampling/monitoring activities on April 12, 2022. Sampling activities are anticipated to take one day. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Long, Thomas <tilong@eprod.com>
Sent: Wednesday, March 23, 2022 11:33 AM
To: Kyle Summers <ksummers@ensolum.com>
Subject: Fwd: [EXTERNAL] FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W;
36.644538, -107.857891 - Incident # nAPP2121054964

Tom Long

Begin forwarded message:

From: "Velez, Nelson, EMNRD" <<u>Nelson.Velez@state.nm.us</u>>
Date: March 23, 2022 at 11:23:28 AM MDT
To: "Long, Thomas" <<u>tjlong@eprod.com</u>>
Cc: "Stone, Brian" <<u>bmstone@eprod.com</u>>
Subject: RE: [EXTERNAL] FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23
T28N R10W; 36.644538, -107.857891 - Incident # nAPP2121054964

[Use caution with links/attachments]

As per our telecommunication yesterday morning, please prepare a draft letter for the division director's approval pursuant to subsection D of section 9 of 19.15.30 NMAC.

If you have any further questions, please contact me at your convenience.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@state.nm.us</u>

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur. 7:00-11:00 am & 12:00-4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, March 21, 2022 10:00 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXTERNAL] FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N
R10W; 36.644538, -107.857891 - Incident # nAPP2121054964

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

Nelson,

Please find the attached site map and lab reports (soil and water) for the Bruce R. Sullivan release site. All sample results are below the NMOCD Tier I soil remediation standards and NMWQQC ground water standards. As previously discussed in phone conversations, will NMOCD still accept four consecutive groundwater sampling events spaced two week apart for closing this site? Assuming all constituents of concerns remain below the NMWQQC ground water standards. Please acknowledge acceptance of the proposed alternate groundwater sampling schedule. If you have any questions, please call or email.

Thanks,

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Long, Thomas
Sent: Monday, March 7, 2022 8:33 AM
To: 'Velez, Nelson, EMNRD' <<u>Nelson.Velez@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W;
36.644538, -107.857891 - Incident # nAPP2121054964

Nelson,

This email is a notification that Enterprise will be conducting groundwater sampling/monitoring activities on March 9, 2022. Sampling activities are anticipated to take one day. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) <u>tjlong@eprod.com</u>



From: Long, Thomas
Sent: Monday, February 28, 2022 2:33 PM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W;
36.644538, -107.857891 - Incident # nAPP2121054964

Nelson,

This email is a notification that Enterprise will be installing groundwater monitoring wells a the 2D-1 Well Tie/Bruce R Sullivan #2 on Thursday, March 3, 2022. Drilling activities are anticipated to take one day. After monitoring well installation activities are complete, Enterprise will develop and sample the wells. I will send a subsequent notification for the groundwater sampling activities. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Long, Thomas
Sent: Monday, August 16, 2021 7:16 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W;
36.644538, -107.857891 - Incident # nAPP2121054964

Cory,

We will be collecting the water sample tomorrow instead of today. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Long, Thomas
Sent: Friday, August 13, 2021 7:34 AM
To: 'Smith, Cory, EMNRD' <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W; 36.644538,
-107.857891 - Incident # nAPP2121054964

Cory,

This email is notification that Enterprise will be collecting a water sample from the temporary well at the 2D-1 Well Tie/Bruce R Sullivan #2 on Monday, August 16, 2021. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Thursday, August 12, 2021 3:14 PM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXTERNAL] RE: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N
R10W; 36.644538, -107.857891 - Incident # nAPP2121054964

[Use caution with links/attachments] Tom,

Thanks for the update please make sure to sample for 8026 full list and include Cation/Anion in the water sample.

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, August 12, 2021 2:58 PM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W; 36.644538,
-107.857891 - Incident # nAPP2121054964

Cory,

Please find the attached site sketch and lab reports for the 2D-1 Well Tie/Bruce R Sullivan #2 excavation. We found groundwater in the excavation on the morning we sampled it. We collected a groundwater sample as well. All sample results are below NMOCD Tier I remediation standards and NMWQCC standards. Entperise install a temporary well prior to backfilling the excavation. After the temporary well has been developed and allowed to set for 24 hours, it will be purged and sampled. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) <u>tjlong@eprod.com</u>



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Tuesday, August 10, 2021 8:04 AM
To: Long, Thomas <<u>tjlong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXTERNAL] RE: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N
R10W; 36.644538, -107.857891 - Incident # nAPP2121054964

[Use caution with links/attachments] Tom,

sips coffee my bad hehe..

Thanks for giving me everything I needed

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/ From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, August 10, 2021 8:03 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: RE: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W; 36.644538,
-107.857891 - Incident # nAPP2121054964

Cory,

The incident number is in the title of this email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Tuesday, August 10, 2021 8:01 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXTERNAL] RE: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N
R10W; 36.644538, -107.857891 - Incident # nAPP2121054964

[Use caution with links/attachments]

Tom,

Thanks for the update what is the incident# associated with the release?

Cory Smith • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1000 Rio Brazos | Aztec, NM 87410 505.334.6178 x115 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <<u>tjlong@eprod.com</u>>
Sent: Monday, August 9, 2021 2:42 PM

To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: 2D-1 Well Tie/Bruce R Sullivan #2 - UL I Section 23 T28N R10W; 36.644538, -107.857891 - Incident # nAPP2121054964

Cory,

This email is a notification that Entperise will be collecting soil samples at the 2D-1 Well Tie/Bruce R Sullivan #2 release site on Wednesday, August 11, 2021 at 11:00 a.m. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



APPENDIX C

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC 2D-1 Well Tie/Bruce R Sullivan #2 (7/29/21) Ensolum Project No. 05A1226149

Photograph 1

Photograph Description: View of in-process drilling activities.



Photograph 2

Photograph Description: View of in-process drilling activities.



Photograph 3

Photograph Description: View of in-process drilling activities.





SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC 2D-1 Well Tie/Bruce R Sullivan #2 (7/29/21) Ensolum Project No. 05A1226149



Photograph 4

Photograph Description: View of the installed temporary monitoring wells.





APPENDIX D

Soil Boring/Well Boring Logs



BORING LOG MW-1R

PROJECT NUMBER 05A1226149 PROJECT NAME 2D-1/Bruce R Sullivan #2 CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM DRILLING DATE 3/3/22 DRILLING COMPANY HRL Compliance BORING METHOD Geoprobe TOTAL DEPTH 12.5 ft NORTH COORDINATE 36.644569 N WEST COORDINATE 107.857833 W SURFACE COMPLETION Above Grade LOGGED BY R.Deechilly SAMPLER R. Deechilly

Note	s:							
Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
						Hydrovac (0'-5') - No Samples Collected		hydrated bentonite
- 4 - 5 - 6 - 7	0	MW-1R (5'-7')		Σ		Geoprobe (5'-12.5') Sand: dark yellowish brown (10YR 4/2), dusky yellow (5Y 6/4), light olive gray (5Y 5/2); medium gray (N5) to dark gray (N3) from 7'-10'; medium gray (N5) from 11'-12'; medium to coarse grained; moist to wet starting at 6'; no odor 5'-7', mild odor 7'-12'.		······································
	0.5							
- 11 	13.6	MW-1R (11'-12.5')						
- 13 - 14 - 15						TD at 12.5 ft bgs		

Disclaimer This bore log should not be used separately from this report..


PROJECT NUMBER 05A1226149 PROJECT NAME 2D-1/Bruce R Sullivan #2 CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM DRILLING DATE 3/3/22 DRILLING COMPANY HRL Compliance BORING METHOD Geoprobe TOTAL DEPTH 12.5 ft NORTH COORDINATE 36.644636 N WEST COORDINATE 107.857828 W SURFACE COMPLETION Above Grade LOGGED BY R.Deechilly SAMPLER R. Deechilly

Note	es:							
Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
	ā 0 0 0 0 0 0	<u>м</u> W-2 (5'-7') МW-2 (1'-12.5')		sw ∑		Hydrovac (0'-5') - No Samples Collected Geoprobe (5'-12.5') Sand: moderate yellowish brown (10YR 5/4), dark yellowish brown (10YR 4/2), light olive gray (5' 5/2); medium to very coarse grained; trace of gravel from 10'-12.5; wet; no odor TD at 12.5 ft bgs	St	-hydrated bentonite
_								

Disclaimer This bore log should not be used separately from this report..



PROJECT NUMBER 05A1226149 PROJECT NAME 2D-1/Bruce R Sullivan #2 CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM DRILLING DATE 3/3/22 DRILLING COMPANY HRL Compliance BORING METHOD Geoprobe TOTAL DEPTH 12.5 ft NORTH COORDINATE 36.644617 N WEST COORDINATE 107.857886 W SURFACE COMPLETION Above Grade LOGGED BY R.Deechilly SAMPLER R. Deechilly

Note	s:							
Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
tagent	0.4 0 0 0	MW-3 (5'-7') MW-3 (11'-12.5')	Reco		Grap	Hydrovac (0'-5') - No Samples Collected Geoprobe (5'-12.5') Sand: moderate yellowish brown (10YR 5/4), dark yellowish brown (10YR 4/2), light olive gray (5Y 5/2); medium to very coarse grained; moist to saturated; no odor TD at 12.5 ft bgs	Stain	-hydrated bentonite
- 14 - 15 - 15								

Disclaimer This bore log should not be used separately from this report..



PROJECT NUMBER 05A1226149 PROJECT NAME 2D-1/Bruce R Sullivan #2 CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM DRILLING DATE 3/3/22 DRILLING COMPANY HRL Compliance BORING METHOD Geoprobe TOTAL DEPTH 12.5 ft NORTH COORDINATE 36.644583 N WEST COORDINATE 107.857917 W SURFACE COMPLETION Above Grade LOGGED BY R.Deechilly SAMPLER R. Deechilly

Note	s:							
Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
2 	<u>ā</u> 0.4	WW-4 (7.51.10)		Ž	b	Hydrovac (0'-5') - No Samples Collected Geoprobe (5'-12.5') Sand: dark yellowish brown (10YR 4/2), dusky yellow (5Y 6/4), light olive gray (5Y 5/2); medium gray (N5) from 7.5'-10.5'; medium to coarse grained; moist to saturated; mild odor from 7.5'-10.5'; no odor from 5'-10.5' and 10.5'-12.5'	St	-hydrated bentonite
- 9 - 10 - 11	0.5 0	MW-4						
- 12	0.1	(11'-12.5')						
- 13 - 14 - 15 - 15						TD at 12.5 ft bgs		

Disclaimer This bore log should not be used separately from this report..



PROJECT NUMBER 05A1226149 **PROJECT NAME** 2D-1/Bruce R Sullivan #2 CLIENT Enterprise Field Services, LLC LOCATION San Juan County, NM

DRILLING DATE 3/3/22 DRILLING COMPANY HRL Compliance BORING METHOD Geoprobe TOTAL DEPTH 20 ft

NORTH COORDINATE 36.644492 N WEST COORDINATE 107.857850 W SURFACE COMPLETION Above grade LOGGED BY R.Deechilly SAMPLER R. Deechilly

Note	s:							
Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
ba 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 10 11 12 13 14 15 10 10 11 12 12 12 12 12 12 12 12 12		Бу МW-5 (10'-12.5') МW-5 (17.5'-20')		Δ a		Hydrovac (0'-5') - No Samples Collected Geoprobe (5'-20') Silty Sand to Sand: moderate yellowish brown (10YR 5/4), dark yellowish brown (10YR 4/2), light olive gray (5Y 5/2); medium to coarse grained; moist to saturated; no odor TD at 20 ft bgs	Sta	-hydrated bentonite
Disc	laimer Th	his bore log sho	uld no	t be us	sed se	parately from this report		Page 1 of 1

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APPENDIX E

Tables

ENSOLUM

	TABLE 1 2D-1 Well Tie/Bruce R Sullivan #2 (7/29/21) MONITORING WELL BORING SOIL ANALYTICAL SUMMARY												
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (Feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)	
New Mexico Oil Co	Energy, Mineral &	Natural Resources	Department (Tier I)	10	NE	NE	NE	50			100	600	
	Soil Boring Soil Samples (March 2022)												
MW_1R	3.3.22	С	5 to 7	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.7	<48	ND	<60
10100-111		С	11 to 12.5	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<8.4	<42	ND	<60
MW-2	3322	С	5 to 7	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<8.2	<41	ND	<60
10100-2	0.0.22	С	11 to 12.5	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<10	<50	ND	<60
M\\\/_3	3 3 22	С	5 to 7	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.4	<47	ND	<60
10100-5	5.5.22	С	11 to 12.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.8	<49	ND	<60
M\\/_4	3322	С	7.5 to 10	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<6.8	<34	ND	<60
MVV-4	0.0.22	С	11 to 12.5	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<0.097	<0.49	ND	<60
MW-5	3322	С	10 to 12.5	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.5	<48	ND	<60
10100-0	3.3.22	С	17.5 to 20	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.6	<48	ND	<59

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

¹ = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

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	use	70	vj	10

TABLE 2 2D-1 Well Tie/Bruce R Sullivan #2 (7/29/21) GROUNDWATER ANALYTICAL SUMMARY - DETECTED VOLATILE ORGANIC COMPOUNDS											
Sample I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	1,2,4- Trimethylbenzene ^{1,2}	1,3,5- Trimethylbenzene ^{1,2}	2-Methylnaphthalene ^{1,2}		
		(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
New Mexico Wate Comm Human Healt	er Quality Control nission th Standards	5	1,000	700	620	30	NE	NE	NE		
Water Sample Collected from the Excavation (August 2021)											
EW-1*	EW-1* 8.11.21 5.3 <5.0 <5.0 <7.5 NA NA NA NA										
Water Samples Collected from the Temporary Sample Point (August 2021)											
MW-1	8.17.21	33	3.2	1.3	17	4.9	7.6	4.8	4.8		
			Water	Samples Collec	ted from the Te	mporary Monite	oring Wells				
MW-1R	3.9.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		
	4.13.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		
M\\/-2	3.9.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		
	4.13.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		
M\\\/_3	3.9.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		
10100-5	4.13.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		
M\\/_4	3.9.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		
10100-4	4.13.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		
MW-5	3.9.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		
0100-5	4.13.22	<1.0	<1.0	<1.0	<1.5	<2.0	<1.0	<1.0	<4.0		

Notes:

Concentrations in **bold** and yellow exceed the applicable WQCC HHS

* = The sample collected from the excavation was only analyzed for benzene, toluene, ethlybenzene, and xylenes.

¹ = Constituent is not identified as "toxic pollutant" under 20.6.2 New Mexico Administrative Code (NMAC).

² = Constituent is not identified as a priority pollutant under the Federal Clean Water Act (CWA).

µg/L = microgram per liter

NA = Not Analyzed

NE = Not Established

<1.0 = The numeral (in this case "1.0") identifies the laboratory reporting limit (RL) or practical quantitation limit (PQL).

ENSOLUM

	TABLE 3 2D-1 Well Tie/Bruce R Sullivan #2 (7/29/21)													
GROUNDWATER ANALYTICAL SUMMARY - INORGANICS, PHYSICAL, AND CHEMICAL PROPERTIES														
Sample I.D.	Sample Date	Fluoride	Chloride	Sulfate	Nitrate + Nitrite	Bromide	Phosphorus	Calcium	Magnesium	Potassium	Sodium	Total Dissolved Solids	Conductivity	Total Alkalinity
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(µmhos/cm)	(mg/L Ca)
New Mexico Wat Comm Human Health Domestic Water	Mexico Water Quality Control Commmission uman Health Standards and nestic Water Supply Standards 1.6 250 600 11 NE NE													
Water Samples Collected from the Excavation (August 2021)														
EW-1*	8.11.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				Water	Samples Col	lected from t	he Tempora	y Sample Po	int (August 2	2021)				
MW-1	8.17.21	0.79	62	4,000	<1.00	<0.50	<2.5	530	78	13	1,300	6,300	7,200	427.2
				N	later Sample	s Collected f	rom the Tem	porary Monit	oring Wells					
MW-1R	3.9.22	NA	49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4.13.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3.9.22	NA	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10100-2	4.13.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3.9.22	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10100-3	4.13.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3.9.22	NA	8.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	4.13.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3.9.22	NA	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	4.13.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Concentrations in **bold** and yellow exceed the applicable WQCC HHS or DWSS

* = The sample collected from the excavation was only analyzed for benzene, toluene, ethlybenzene, and xylenes.

mg/L = milligram per liter

µmhos/cm = micromhos per centimeter

Ca = Calcium

NA = Not Analyzed

NE = Not Established

<1.0 = The numeral (in this case "1.0") identifies the laboratory reporting limit (RL) or practical quantitation limit (PQL).



	TABLE 4 2D-1 Well Tie/Bruce R Sullivan #2 (7/29/21) GROUNDWATER ELEVATIONS											
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	Total Well Depth (feet BTOC)	Screen Interval (feet BTOC)	TOC Elevations (feet AMSL)	Groundwater Elevation ¹ (feet AMSL)				
MW-1R	3.9.22	ND	8.35	ND	15 57	5 57-15 57	5724 42	5716.07				
10100-113	4.13.22	ND	8.22	ND	10.01	0.07-10.07	0124.42	5716.20				
	3.9.22	ND	7.53	ND	15.23	5 23 15 23	5723 43	5715.90				
10100-2	4.13.22	ND	7.40	ND	10.20	5.25-15.25	5725.45	5716.03				
MM/ 2	3.9.22	ND	7.62	ND	15 / 2	5 12 15 12	5722.66	5716.04				
10100-5	4.13.22	ND	7.49	ND	15.45	5.45-15.45	5725.00	5716.17				
	3.9.22	ND	7.66	ND	15 11	5 11 15 11	5702.92	5716.17				
10100-4	4.13.22	ND	7.53	ND	15.44	5.44-15.44	5725.65	5716.30				
	3.9.22	ND	12.05	ND	22.58	7 58 22 58 5728 33		5716.28				
10100-5	4.13.22	ND	11.93	ND	22.00	1.00-22.00	5720.33	5716.40				

Notes:

Monitoring wells were surveyed in March 2022

¹ - Groundwater elevations are listed in feet as measured at a set OPUS adjusted central point.

BTOC - below top of casing

AMSL - above mean sea level

TOC - top of casing



APPENDIX F

Laboratory Data Sheets & Chain of Custody Documentation



March 16, 2022

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX:

RE: 2D 1 Bruce R Sullivan 2

OrderNo.: 2203371

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/5/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: 2D 1 Bruce R Sullivan 2

Analytical Report Lab Order 2203371

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/16/2022
Client Sample ID: MW-1R@ 5'-7'

Collection Date: 3/3/2022 10:30:00 AM

Lab ID: 2203371-001	Matrix: SOIL		Received Date: 3/5/2022 8:55:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	ND	60	mg/Kg	20	3/14/2022 1:16:15 PM	66147			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	том			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/11/2022 11:43:43 AM	66066			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/11/2022 11:43:43 AM	66066			
Surr: DNOP	101	51.1-141	%Rec	1	3/11/2022 11:43:43 AM	66066			
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/9/2022 8:59:08 AM	66023			
Surr: BFB	103	70-130	%Rec	1	3/9/2022 8:59:08 AM	66023			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
Benzene	ND	0.025	mg/Kg	1	3/9/2022 8:59:08 AM	66023			
Toluene	ND	0.049	mg/Kg	1	3/9/2022 8:59:08 AM	66023			
Ethylbenzene	ND	0.049	mg/Kg	1	3/9/2022 8:59:08 AM	66023			
Xylenes, Total	ND	0.099	mg/Kg	1	3/9/2022 8:59:08 AM	66023			
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	3/9/2022 8:59:08 AM	66023			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 18

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2D 1 Bruce R Sullivan 2

2203371-002

Project:

Lab ID:

Analytical Report Lab Order 2203371 Date Reported: 3/16/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-1R @ 11'-12.5' Collection Date: 3/3/2022 10:35:00 AM Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	3/14/2022 1:53:29 PM	66147
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	ТОМ
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	3/11/2022 3:19:46 PM	66066
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	3/11/2022 3:19:46 PM	66066
Surr: DNOP	103	51.1-141	%Rec	1	3/11/2022 3:19:46 PM	66066
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/9/2022 10:09:22 AM	66023
Surr: BFB	120	70-130	%Rec	1	3/9/2022 10:09:22 AM	66023
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	3/9/2022 10:09:22 AM	66023
Toluene	ND	0.049	mg/Kg	1	3/9/2022 10:09:22 AM	66023
Ethylbenzene	ND	0.049	mg/Kg	1	3/9/2022 10:09:22 AM	66023
Xylenes, Total	ND	0.099	mg/Kg	1	3/9/2022 10:09:22 AM	66023
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	3/9/2022 10:09:22 AM	66023

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project:

2D 1 Bruce R Sullivan 2

Analytical Report Lab Order 2203371

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/16/2022 Client Sample ID: MW-4@ 7.5'-10' Collection Date: 3/3/2022 11:40:00 AM Received Date: 3/5/2022 8:55:00 AM

Lab ID: 2203371-003	Matrix: SOIL	Received Date: 3/5/2022 8:55:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst:	MRA		
Chloride	ND	60	mg/Kg	20	3/14/2022 2:30:42 PM	66147		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	том		
Diesel Range Organics (DRO)	ND	6.8	mg/Kg	1	3/11/2022 12:31:30 PM	66066		
Motor Oil Range Organics (MRO)	ND	34	mg/Kg	1	3/11/2022 12:31:30 PM	66066		
Surr: DNOP	102	51.1-141	%Rec	1	3/11/2022 12:31:30 PM	66066		
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/9/2022 11:20:19 AM	66023		
Surr: BFB	109	70-130	%Rec	1	3/9/2022 11:20:19 AM	66023		
EPA METHOD 8021B: VOLATILES					Analyst:	NSB		
Benzene	ND	0.025	mg/Kg	1	3/9/2022 11:20:19 AM	66023		
Toluene	ND	0.050	mg/Kg	1	3/9/2022 11:20:19 AM	66023		
Ethylbenzene	ND	0.050	mg/Kg	1	3/9/2022 11:20:19 AM	66023		
Xylenes, Total	ND	0.099	mg/Kg	1	3/9/2022 11:20:19 AM	66023		
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	3/9/2022 11:20:19 AM	66023		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2D 1 Bruce R Sullivan 2

2203371-004

Project:

Lab ID:

Analytical Report Lab Order 2203371

	Hall	Environmenta	I A	nalysis	Lal	boratory	, I	nc
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Date Reported: 3/16/2022

Client Sample ID: MW-4@ 11'-12.5' Collection Date: 3/3/2022 11:45:00 AM Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	3/14/2022 3:45:08 PM	66147
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	том
Diesel Range Organics (DRO)	ND	0.097	mg/Kg	1	3/11/2022 12:55:27 PM	66066
Motor Oil Range Organics (MRO)	ND	0.49	mg/Kg	1	3/11/2022 12:55:27 PM	66066
Surr: DNOP	92.4	51.1-141	%Rec	1	3/11/2022 12:55:27 PM	66066
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/9/2022 2:06:59 PM	66023
Surr: BFB	110	70-130	%Rec	1	3/9/2022 2:06:59 PM	66023
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	3/9/2022 2:06:59 PM	66023
Toluene	ND	0.050	mg/Kg	1	3/9/2022 2:06:59 PM	66023
Ethylbenzene	ND	0.050	mg/Kg	1	3/9/2022 2:06:59 PM	66023
Xylenes, Total	ND	0.099	mg/Kg	1	3/9/2022 2:06:59 PM	66023
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	3/9/2022 2:06:59 PM	66023

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project: 2D 1 Bruce R Sullivan 2

Analytical Report Lab Order 2203371

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/16/2022 Client Sample ID: MW-3@ 5'-7' Collection Date: 3/3/2022 12:40:00 PM

Lab ID:	2203371-005	Matrix: SOIL		Received Dat	e: 3/5	5/2022 8:55:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METH	IOD 300.0: ANIONS					Analyst	MRA
Chloride		ND	60	mg/Kg	20	3/14/2022 3:57:32 PM	66147
EPA METH	OD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: TOM
Diesel Rar	nge Organics (DRO)	ND	9.4	mg/Kg	1	3/11/2022 1:19:27 PM	66066
Motor Oil	Range Organics (MRO)	ND	47	mg/Kg	1	3/11/2022 1:19:27 PM	66066
Surr: Di	NOP	95.6	51.1-141	%Rec	1	3/11/2022 1:19:27 PM	66066
EPA METH	IOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline F	Range Organics (GRO)	ND	4.9	mg/Kg	1	3/9/2022 3:42:23 PM	66023
Surr: BF	B	107	70-130	%Rec	1	3/9/2022 3:42:23 PM	66023
EPA METH	IOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	0.024	mg/Kg	1	3/9/2022 3:42:23 PM	66023
Toluene		ND	0.049	mg/Kg	1	3/9/2022 3:42:23 PM	66023
Ethylbenze	ene	ND	0.049	mg/Kg	1	3/9/2022 3:42:23 PM	66023
Xylenes, T	otal	ND	0.098	mg/Kg	1	3/9/2022 3:42:23 PM	66023
Surr: 4-	Bromofluorobenzene	98.8	70-130	%Rec	1	3/9/2022 3:42:23 PM	66023

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix Н
- Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2D 1 Bruce R Sullivan 2

2203371-006

Project:

Lab ID:

Analytical Report Lab Order 2203371 Date Reported: 3/16/2022

Client Sample ID: MW-3@ 11'-12.5' Collection Date: 3/3/2022 12:45:00 PM Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	3/14/2022 4:09:56 PM	66147
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/11/2022 2:31:29 PM	66066
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/11/2022 2:31:29 PM	66066
Surr: DNOP	90.3	51.1-141	%Rec	1	3/11/2022 2:31:29 PM	66066
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/9/2022 4:06:09 PM	66023
Surr: BFB	109	70-130	%Rec	1	3/9/2022 4:06:09 PM	66023
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	3/9/2022 4:06:09 PM	66023
Toluene	ND	0.050	mg/Kg	1	3/9/2022 4:06:09 PM	66023
Ethylbenzene	ND	0.050	mg/Kg	1	3/9/2022 4:06:09 PM	66023
Xylenes, Total	ND	0.10	mg/Kg	1	3/9/2022 4:06:09 PM	66023
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	3/9/2022 4:06:09 PM	66023

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2203371

Hall	Environm	ental A	nalysis l	Laborator	y, Inc.

Date Reported: 3/16/2022
Client Sample ID: MW-2@ 5'-7'

Project:	2D 1 Bruce R Sullivan 2		(Collection Dat	e: 3/3	3/2022 1:30:00 PM	
Lab ID:	2203371-007	Matrix: SOIL		Received Dat	e: 3/5	5/2022 8:55:00 AM	
Analyse	S	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst:	MRA
Chloride	e	ND	60	mg/Kg	20	3/14/2022 4:22:21 PM	66147
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst:	том
Diesel F	Range Organics (DRO)	ND	8.2	mg/Kg	1	3/11/2022 2:55:36 PM	66066
Motor O	0il Range Organics (MRO)	ND	41	mg/Kg	1	3/11/2022 2:55:36 PM	66066
Surr:	DNOP	90.1	51.1-141	%Rec	1	3/11/2022 2:55:36 PM	66066
EPA ME	THOD 8015D: GASOLINE RAM	IGE				Analyst:	RAA
Gasolin	e Range Organics (GRO)	ND	4.8	mg/Kg	1	3/10/2022 9:32:00 PM	66025
Surr:	BFB	100	70-130	%Rec	1	3/10/2022 9:32:00 PM	66025
EPA ME	THOD 8021B: VOLATILES					Analyst:	RAA
Benzen	e	ND	0.024	mg/Kg	1	3/10/2022 9:32:00 PM	66025
Toluene	2	ND	0.048	mg/Kg	1	3/10/2022 9:32:00 PM	66025
Ethylbei	nzene	ND	0.048	mg/Kg	1	3/10/2022 9:32:00 PM	66025
Xylenes	s, Total	ND	0.096	mg/Kg	1	3/10/2022 9:32:00 PM	66025
Surr:	4-Bromofluorobenzene	87.5	70-130	%Rec	1	3/10/2022 9:32:00 PM	66025

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project: 2D 1 Bruce R Sullivan 2

Analytical Report Lab Order 2203371

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/16/2022 Client Sample ID: MW-2@ 11'-12.5' Collection Date: 3/3/2022 1:35:00 PM

Lab ID: 2203371-008	Matrix: SOIL	Re	ceived Dat	e: 3/5	5/2022 8:55:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	3/14/2022 4:34:46 PM	66147
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/11/2022 9:31:22 AM	66078
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/11/2022 9:31:22 AM	66078
Surr: DNOP	113	51.1-141	%Rec	1	3/11/2022 9:31:22 AM	66078
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/10/2022 10:32:00 PM	66025
Surr: BFB	102	70-130	%Rec	1	3/10/2022 10:32:00 PM	66025
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.024	mg/Kg	1	3/10/2022 10:32:00 PM	66025
Toluene	ND	0.048	mg/Kg	1	3/10/2022 10:32:00 PM	66025
Ethylbenzene	ND	0.048	mg/Kg	1	3/10/2022 10:32:00 PM	66025
Xylenes, Total	ND	0.097	mg/Kg	1	3/10/2022 10:32:00 PM	66025
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	3/10/2022 10:32:00 PM	66025

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2203371-009

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2203371

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/16/2022 Client Sample ID: MW-5 @10'-12.5'

2D 1 Bruce R Sullivan 2 Collection Date: 3/3/2022 2:30:00 PM Matrix: SOIL Received Date: 3/5/2022 8:55:00 AM Result RL Qual Units DF Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA

Chloride	ND	60	mg/Kg	20	3/14/2022 4:47:10 PM	66147
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/11/2022 12:15:35 PM	66078
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/11/2022 12:15:35 PM	66078
Surr: DNOP	118	51.1-141	%Rec	1	3/11/2022 12:15:35 PM	66078
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/10/2022 11:31:00 PM	66025
Surr: BFB	103	70-130	%Rec	1	3/10/2022 11:31:00 PM	66025
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.025	mg/Kg	1	3/10/2022 11:31:00 PM	66025
Toluene	ND	0.049	mg/Kg	1	3/10/2022 11:31:00 PM	66025
Ethylbenzene	ND	0.049	mg/Kg	1	3/10/2022 11:31:00 PM	66025
Xylenes, Total	ND	0.099	mg/Kg	1	3/10/2022 11:31:00 PM	66025
Surr: 4-Bromofluorobenzene	86.3	70-130	%Rec	1	3/10/2022 11:31:00 PM	66025

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2203371

3/10/2022 11:50:00 PM 66025

3/10/2022 11:50:00 PM 66025

3/10/2022 11:50:00 PM 66025

3/10/2022 11:50:00 PM 66025

66025

3/10/2022 11:50:00 PM

Hall Environmental Anal	ysis Laboratory,	Inc
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Date Reported: 3/16/2022 Client Sample ID: MW-5@ 17.5'-20' Collection Date: 3/3/2022 2:35:00 PM

Project:	2D 1 Bruce R Sullivan 2		(Collection Dat	e: 3/3	3/2022 2:35:00 PM	
Lab ID:	2203371-010	Matrix: SOIL		5/2022 8:55:00 AM			
Analyses	8	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	MRA
Chloride)	ND	59	mg/Kg	20	3/14/2022 4:59:35 PM	66147
EPA ME	THOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	JME
Diesel R	Range Organics (DRO)	ND	9.6	mg/Kg	1	3/11/2022 12:26:04 PM	66078
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	3/11/2022 12:26:04 PM	66078
Surr:	DNOP	118	51.1-141	%Rec	1	3/11/2022 12:26:04 PM	66078
EPA ME	THOD 8015D: GASOLINE RAN	IGE				Analyst	RAA
Gasoline	e Range Organics (GRO)	ND	4.7	mg/Kg	1	3/10/2022 11:50:00 PM	66025
Surr:	BFB	100	70-130	%Rec	1	3/10/2022 11:50:00 PM	66025
EPA ME	THOD 8021B: VOLATILES					Analyst	RAA

ND

ND

ND

ND

86.7

0.023

0.047

0.047

0.094

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL Reporting Limit

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Analyte Chloride

ND

1.5

Hall Environmental Analysis Laboratory, Inc.								16-Mar-22		
Client: Project:	ENS 2D 1	OLUM Bruce R Sullivan 2	2							
Sample ID:	MB-66147	SampType: mblk TestCode: EPA Method 30				300.0: Anion	s			
Client ID:	PBS	Batch ID:	66147	F	RunNo: 8	6455				
Prep Date:	3/14/2022	Analysis Date:	3/14/2022	S	SeqNo: 3	050753	Units: mg/K	g		
Analvte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID: LCS-66147	SampT	ype: Ics	;	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID: LCSS	Batch	n ID: 66	147	F	lunNo: 8	6455				
Prep Date: 3/14/2022	Analysis D	ate: 3/	14/2022	5	SeqNo: 3	050754	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2203371

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2203371	
s Laboratory, Inc.		16-Mar-22	

Client: Project:	ENSOLU 2D 1 Bru	M ce R Sulliv	van 2								
Sample ID:		CompT			Taa	tCada: F		0045M/D. Dia	a al Danan	Onneniae	
		Sampi							eser kange	organics	
Client ID:	PBS	Batch	11D: 66	166	F	Kunino: 80	6377				
Prep Date:	3/9/2022	Analysis D	ate: 3/	10/2022	5	SeqNo: 30	046493	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	je Organics (MRO)	ND	50	40.00		07.4					
Surr: DNOP		9.7		10.00		97.1	51.1	141			
Sample ID:	LCS-66066	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 660	066	F	RunNo: 8	6377				
Prep Date:	3/9/2022	Analysis D	ate: 3/	10/2022	5	SeqNo: 30	046494	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	50	10	50.00	0	101	68.9	135			
Surr: DNOP		4.5		5.000		90.9	51.1	141			
Sample ID:	MB-66082	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	n ID: 660	082	F	RunNo: 8	6377				
Prep Date:	3/10/2022	Analysis D	ate: 3/	10/2022	S	SeqNo: 30	046593	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.5		10.00		85.0	51.1	141			
Sample ID:	LCS-66082	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 660)82	F	RunNo: 8	6377				
Prep Date:	3/10/2022	Analysis D	ate: 3/	10/2022	S	SeqNo: 30	046678	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.0		5.000		80.7	51.1	141			
Sample ID:	LCS-66078	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 660)78	F	RunNo: 8	6412				
Prep Date:	3/10/2022	Analysis D	ate: 3/	11/2022	S	SeqNo: 30	048356	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	49	10	50.00	0	98.9	68.9	135			
Surr: DNOP		5.0		5.000		101	51.1	141			
Sample ID:	2203371-008AMS	SampT	ype: MS	;	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	MW-2@ 11'-12.5'	Batch	n ID: 66)78	F	RunNo: 8	6412				
Prep Date:	3/10/2022	Analysis D	ate: 3/	11/2022	S	SeqNo: 30	048403	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	54	9.8	48.78	5.664	99.1	36.1	154			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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B Analyte detected in the associated Method Blank

Client ID: MW-2@ 11'-12.5'

QC SUMMARY REPORT F =

Batch ID: 66078

|--|

Hall Env	ironmental Analysis Labora	wo#: 2203371 tory, Inc. 16-Mar-22
Client:	ENSOLUM	
Project:	2D 1 Bruce R Sullivan 2	
Sample ID: 22	203371-008AMS SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics

RunNo: 86412

Prep Date: 3/10/2022	Analysis [Date: 3/	11/2022	S	SeqNo: 30	048403	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		4.878		110	51.1	141			
Sample ID: 2203371-008AMS	Sample ID: 2203371-008AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: MW-2@ 11'-12.5'	Batc	h ID: 66	078	F	RunNo: 8	6412				
Prep Date: 3/10/2022	Analysis [Date: 3/	11/2022	5	SeqNo: 30	048408	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.7	48.36	5.664	90.9	36.1	154	8.53	33.9	
Surr: DNOP	5.1		4.836		104	51.1	141	0	0	
Sample ID: MB-66078	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batc	h ID: 66	078	F	RunNo: 8	6400				
Prep Date: 3/10/2022	Analysis [Date: 3/	11/2022	S	SeqNo: 30	048585	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.4	51.1	141			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2203371
	16-Mar-22

Client: ENSO Project: 2D 1 E	LUM Bruce R Sullivan	12							
Sample ID: mb-66023	SampType	e: MBLK	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID): 66023	F	RunNo: 86	367				
Prep Date: 3/8/2022	Analysis Date	e: 3/9/2022	S	SeqNo: 30	46040	Units: mg/K	٤g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 1000	5.0 1000		104	70	130			
Sample ID: Ics-66023	SampType	e: LCS	Tes	tCode: EP	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID): 66023	F	RunNo: 86	367				
Prep Date: 3/8/2022	Analysis Date	e: 3/9/2022	S	SeqNo: 30	46041	Units: mg/K	٢g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0 25.00	0	106	78.6	131			
	2200	1000		216	70	130			5
Sample ID: Ics-66025	SampType	e: LCS	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID): 66025	F	RunNo: 86	5391				
Prep Date: 3/8/2022	Analysis Date	e: 3/10/2022	S	SeqNo: 30	47898	Units: mg/K	ζg		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0 25.00	0	114	78.6	131			0
	2300	1000		231	70	130			3
Sample ID: mb-66025	SampType	e: MBLK	Tes	tCode: EP	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch ID): 66025	F	RunNo: 86	6391				
Prep Date: 3/8/2022	Analysis Date	e: 3/10/2022	S	SeqNo: 30	47899	Units: mg/K	٤g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 1000	5.0 1000		102	70	130			
Sample ID: 2203371-007am	ns SampType	e: MS	Tes	tCode: EP	PA Method	8015D: Gaso	line Rang	e	
Client ID: MW-2@ 5'-7'	Batch ID): 66025	F	RunNo: 86	6391				
Prep Date: 3/8/2022	Analysis Date	e: 3/10/2022	S	SeqNo: 30	47901	Units: mg/K	٢g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	25 2100	4.6 23.23 929.4	0	109 225	70 70	130 130			S
Sample ID: 2203371-007an	nsd SampType	e: MSD	Tes	tCode: EP	A Method	8015D: Gaso	oline Rang	e	
Client ID: MW-2@ 5'-7'	Batch ID): 66025	F	RunNo: 86	5391		5		
Prep Date: 3/8/2022	Analysis Date	e: 3/10/2022	S	SeqNo: 30	47902	Units: mg/K	٤g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Н

ND

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- E Estimated value
 - J Analyte detected below quantitation limits
 - P Sample pH Not In Range
 - RL Reporting Limit

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PQL Practical Quanitative Limit S % Recovery outside of range due to dilution or matrix interference

Holding times for preparation or analysis exceeded

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2203371
	16-Mar-22

Client:	ENSOLU	М									
Project:	2D 1 Bruc	ce R Sulliv	an 2								
Sample ID:	2203371-007amsd	SampT	ype: M \$	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	MW-2@ 5'-7'	Batch	ID: 66	025	F	RunNo: 8	6391				
Prep Date:	3/8/2022	Analysis Da	ate: 3/	10/2022	5	SeqNo: 30	047902	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	26	4.6	23.15	0	111	70	130	1.41	20	
Surr: BFB		2100		925.9		223	70	130	0	0	S
Sample ID:	lcs-66052	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 66	052	F	RunNo: 8	6391				
Prep Date:	3/9/2022	Analysis Da	ate: 3/	10/2022	5	SeqNo: 30	047923	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		2400		1000		235	70	130			S
Sample ID:	mb-66052	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 66	052	F	RunNo: 8	6391				
Prep Date:	3/9/2022	Analysis Da	ate: 3/	10/2022	5	SeqNo: 30	047924	Units: %Rec	:		
1											
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client:

QC SUMMARY REPORT Hall Environmen

Page	<u>63</u>	of 95

	WO#: 2203371	L
nmental Analysis Laboratory, Inc.	16-Mar-22	I
ENSOLUM		

Project:	2D 1 Bru	ce R Sulli	van 2								
Sample ID:	mb-66023	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batc	h ID: 660	023	F	RunNo: 86367					
Prep Date:	3/8/2022	Analysis [Date: 3/	9/2022	S	SeqNo: 30	046084	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.97		1.000		97.0	70	130			
Sample ID:	LCS-66023	Samp	Type: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batc	h ID: 660	023	F	RunNo: 8	6367				
Prep Date:	3/8/2022	Analysis [Date: 3/	9/2022	S	SeqNo: 30	046085	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.025	1.000	0	86.6	80	120			
Toluene		0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene		0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total		2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Brom	nofluorobenzene	0.99		1.000		98.8	70	130			
Sample ID:	2203371-001ams	Samp	Туре: МS	;	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID:	MW-1R@ 5'-7'	Batc	h ID: 660	023	RunNo: 86367						
Prep Date:	3/8/2022	Analysis [Date: 3/	9/2022	5	SeqNo: 30	046087	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.025	0.9940	0	93.6	68.8	120			
Toluene		1.0	0.050	0.9940	0	100	73.6	124			
Ethylbenzene		1.0	0.050	0.9940	0	103	72.7	129			
Xylenes, Total		3.1	0.099	2.982	0	103	75.7	126			
Surr: 4-Brom	nofluorobenzene	0.99		0.9940		99.8	70	130			
Sample ID:	2203371-001amsd	I Samp	Type: MS	SD .	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID:	MW-1R@ 5'-7'	Batc	h ID: 660	023	F	RunNo: 8	6367				
Prep Date:	3/8/2022	Analysis [Date: 3/	9/2022	S	SeqNo: 30	046088	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.97	0.025	0.9990	0	97.6	68.8	120	4.60	20	
Toluene		1.1	0.050	0.9990	0	105	73.6	124	5.34	20	
Ethylbenzene		1.1	0.050	0.9990	0	108	72.7	129	5.42	20	
Xylenes, Total		3.2	0.10	2.997	0	107	75.7	126	4.75	20	
Surr: 4-Brom	nofluorobenzene	0.99		0.9990		99.5	70	130	0	0	

Qualifiers:

Н

ND

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

в Е

Analyte detected in the associated Method Blank Estimated value

- J Analyte detected below quantitation limits Р
- Sample pH Not In Range

RL Reporting Limit Page 16 of 18

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% Recovery outside of range due to dilution or matrix interference S

Holding times for preparation or analysis exceeded

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2203371
	16-Mar-22

Client: Project:	ENSOLU 2D 1 Brue	M ce R Sulli	van 2								
Sample ID:	lcs-66025	Samp	Туре: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batc	h ID: 66	025	F	RunNo: 8	6391				
Prep Date:	3/8/2022	Analysis [Date: 3/	10/2022	5	SeqNo: 30	047952	Units: mg/K	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.025	1.000	0	92.0	80	120			
Toluene		0.94	0.050	1.000	0	94.5	80	120			
Ethylbenzene		0.95	0.050	1.000	0	95.1	80	120			
Xylenes, Total		2.8	0.10	3.000	0	94.6	80	120			
Surr: 4-Brom	nofluorobenzene	0.88		1.000		88.1	70	130			
Sample ID:	mb-66025	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batc	h ID: 66	025	F	RunNo: 8	6391				
Prep Date:	3/8/2022	Analysis [Date: 3/	10/2022	5	SeqNo: 30	047953	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.88		1.000		87.7	70	130			
Sample ID:	2203371-008ams	Samp	Туре: МS	5	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID:	MW-2@ 11'-12.5'	Batc	h ID: 66	025	RunNo: 86391						
Prep Date:	3/8/2022	Analysis [Date: 3/	10/2022	S	SeqNo: 30	047956	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.78	0.024	0.9690	0	80.3	68.8	120			
Toluene		0.81	0.048	0.9690	0	83.8	73.6	124			
Ethylbenzene		0.83	0.048	0.9690	0	85.9	72.7	129			
Xylenes, Total		2.5	0.097	2.907	0	85.5	75.7	126			
Surr: 4-Brom	nofluorobenzene	0.87		0.9690		89.5	70	130			
Sample ID:	2203371-008amsd	Samp	Type: MS	D	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	MW-2@ 11'-12.5'	Batc	h ID: 66	025	F	RunNo: 8	6391				
Prep Date:	3/8/2022	Analysis [Date: 3/	10/2022	S	SeqNo: 30	047957	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.79	0.024	0.9634	0	82.2	68.8	120	1.81	20	
Toluene		0.83	0.048	0.9634	0	85.9	73.6	124	1.93	20	
Ethylbenzene		0.85	0.048	0.9634	0	88.1	72.7	129	1.93	20	
Xylenes, Total		2.5	0.096	2.890	0	88.0	75.7	126	2.32	20	
Surr: 4-Brom	nofluorobenzene	0.83		0.9634		86.2	70	130	0	0	

Qualifiers:

Н

ND

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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S % Recovery outside of range due to dilution or matrix interference

Holding times for preparation or analysis exceeded

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:ENSOProject:2D 1 E	LUM Bruce R Sullivar	12								
Sample ID: Ics-66052 SampType: LCS			TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	ent ID: LCSS Batch ID: 66052				unNo: 86	6391				
Prep Date: 3/9/2022	Analysis Date	e: 3/	10/2022	S	eqNo: 30)47997	Units: %Red	;		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		89.1	70	130			
Sample ID: mb-66052	SampTyp	e: MI	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID): 66	052	R	unNo: 86	6391				
Prep Date: 3/9/2022	Analysis Date	e: 3/	10/2022	S	eqNo: 30	047998	Units: %Red	;		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 18

2203371

16-Mar-22

WO#:

ENVIR ANALY LABOR	ONMENTAL (SIS Ratory	TEL: 505-345-3 Website: client	4901 Haw 4901 Haw Albuquerque, NN 1975 FAX: 505-3- s.hallenvironmen	ample Log-In Check List		
Client Name:	ENSOLUM	Work Order Num	ber: 2203371		RcptNo: 1	
Received By:	Cheyenne Cason	3/5/2022 8:55:00 A	М	Chul		
Completed By:	Cheyenne Cason	3/5/2022 12:27:07	РМ	Chanl		
Reviewed By:	Jn3/7/22			Cart of the second s		
Chain of Cus	tody					
1. Is Chain of Cι	istody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the s	sample delivered?		Courier			
<u>Log In</u>						
3. Was an attem	pt made to cool the sam	ples?	Yes 🖌	No 🗌	NA 🗌	
4. Were all samp	les received at a tempera	ature of >0° C to 6.0°C	Yes 🔽	No 🗌		
5. Sample(s) in p	roper container(s)?		Yes 🗸	No 🗌		
6. Sufficient samp	ble volume for indicated t	est(s)?	Yes 🗸	No 🗌		
7. Are samples (e	xcept VOA and ONG) pr	operly preserved?	Yes 🗹	No 🗌		
8. Was preservati	ve added to bottles?		Yes	No 🔽	NA 🗌	
9. Received at lea	ist 1 vial with headspace	<1/4" for AQ VOA?	Yes	No 🗌	NA 🔽	
10. Were any sam	ple containers received b	proken?	Yes 🗌	No 🔽	# of preserved	
11.Does paperwor (Note discrepar	k match bottle labels?	0	Yes 🖌	No 🗌	bottles checked for pH:	
12. Are matrices co	prrectly identified on Chai	in of Custody?	Yes 🗸	No 🗌	Adjusted?	ess noted)
13. Is it clear what	analyses were requested	1?	Yes 🗸	No 🗌	1.100	_ 1
14. Were all holding (If no, notify cus	g times able to be met? stomer for authorization.)		Yes 🗸	No 🗌	Checked by: KIG	3/7/
Special Handlii	<u>ng (if applicable)</u>					
15. Was client noti	fied of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🔽	
Person N	lotified:	Date:				
By Whon	1:	Via:	eMail	Phone 🗌 Fax	In Person	
Regardin	g:			an a to a man i strong na mana wanzo	din ve sponisk film vite a stratistica uto essa indestatoria	
Client Ins	tructions:		Next Instanting 1 - Horpson of a Kanada Ta			
10. Additional rem	arks:					
17. <u>Cooler Inform</u>	ation	1				
Looler No	2.1 Good	Seal Intact Seal No	Seal Date	Signed By		
2	1.4 Good	Yes				
3	2.5 Good	Yes				

Released to Imaging: 5/17/2023 7:51:56 AM

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Received by) CD: 6/.	23/202	9:04:00 Al	М													Page 67 (of 95
HALL ENVIRONME	www.hallenvironmental.com	5-345-3975 Fax 505-345-4107	Absent)	od 504.1) etals (10 or 82705 etals (03, NO ₂ , P () (AOA) (Present)	EDB (Meth PAHs by 8 CI, F, Br, 8260 (VOA 8260 (VOA 8270 (Sem 70tal Colifo 701 (Sem	× 	×				×	×				PM-Tom Long (EPROD)	Pay key - RBalaw	contracted data will be clearly notated on the analytical re
	4901 H	Tel. 50	СВ, ² \ WKO) (8051)	<mark>гВЕ / -ТМВ's</mark> ОСВО / DRC Cides/8082 P	МТ / ХЭТВ ЈӘГО8:НЧТ İ2291 Резti	×	×	× × × ×	X	XX	×	\times	× > × >	<		Remarks: 2.5-0-2.5	4-0=1.9	oossibility. Any sub
Around Time: andard	i Name: 1 /Bruce R Sullivan #2	t#: See notes	t Manager: <i>大らぃmゐ</i> ら	er: 20 echi/ly : 2 Yes Doo oolers: 3	Terr Preservative HEAL No. nd # Type 2.203371	Jer coul Gel	Jur cost 002	Der (00) 003	Jur (w) 005	Jar Cost 006	Jer (00) (007	Jer Carl OOS	134 COUL 609			by: Via: Date Time F	by: Via: Date Time 11.	other accredited laboratories. This serves as notice of this p
f-Custody Record Turn-A	De S. R.O. brande Suite A 20-	87410 Project	mmesのense/um.com Project	Az Compliance Sample Other On Ice	Contair Type al	> MW-IRE 5-7, 1×402	MW-IRE 11-12,5 1×402	> MW-4@ 11-1215 1×102	50 MW-30 5-7 1×402	5 MW-30 11-12,5' 1x 102	S MW-26 5-7' 1×402	S MW-2@ 11-12,5 1 × 402	MW-SCIO-12, 1x Yor			A A A A A A A A A A A A A A A A A A A	Must have Received	les submitted to Hall Environmental may be subcontracted to
Chain-of ^{Client:} Enselun	Mailing Address: ₆₀	Phone #:	email or Fax#: <i>≿§⊍.</i> QA/QC Package: □ Standard	Accreditation: 1/ NELAC 1 (EDD (Type)	Date Time Mat	3/3/22 1030 5	212/2025 5	3/5/22 1145 5	3/2/22 1240 S	3/3/22 1245	3/3/22 1330	5/3/22 1335 5	3/3/22 1435 C		Data: Tima: Balin	34/22/1030 J	Date: Time: Relin	If necessary, sample



March 18, 2022

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX:

RE: 2D1 Bruce R Sullivan 2

OrderNo.: 2203586

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/10/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 2203586

Date Reported: 3/18/2022

Analyses		Result	RL Qual Units	DF Date Analyzed	Batch					
Lab ID:	2203586-001	Matrix: AQUEOUS	Received Dat	e: 3/10/2022 8:00:00 AM						
Project:	2D1 Bruce R Sullivan 2		Collection Dat	e: 3/9/2022 9:15:00 AM						
CLIENT:	ENSOLUM	Client Sample ID: MW-5								

EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	45	2.5	mg/L	5	3/10/2022 5:42:22 PM	R86417
EPA METHOD 8260B: VOLATILES					Analyst	: JR
Benzene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Toluene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Ethylbenzene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Naphthalene	ND	2.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
2-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Acetone	ND	10	µg/L	1	3/16/2022 8:21:29 PM	R86534
Bromobenzene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Bromodichloromethane	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Bromoform	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Bromomethane	ND	3.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
2-Butanone	ND	10	µg/L	1	3/16/2022 8:21:29 PM	R86534
Carbon disulfide	ND	10	µg/L	1	3/16/2022 8:21:29 PM	R86534
Carbon Tetrachloride	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Chlorobenzene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Chloroethane	ND	2.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Chloroform	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Chloromethane	ND	3.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
2-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
4-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
cis-1,2-DCE	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Dibromochloromethane	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Dibromomethane	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,2-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,3-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,4-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
Dichlorodifluoromethane	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,1-Dichloroethane	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,1-Dichloroethene	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534
1,2-Dichloropropane	ND	1.0	µg/L	1	3/16/2022 8:21:29 PM	R86534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

В Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 1 of 14

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Analytical Report Lab Order 2203586

Date Re	morted	3/1	8/2	022

Hall Environmental Analy		Date Reported: 3/18/2022								
CLIENT: ENSOLUM Project: 2D1 Bruce R Sullivan 2 Lab ID: 2203586-001	Matrix: AQUEOUS	Client Sample ID: MW-5Collection Date: 3/9/2022 9:15:00 AMMatrix: AQUEOUSReceived Date: 3/10/2022 8:00:00 AM								
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 8260B: VOLATILES						Analyst	JR			
1,3-Dichloropropane	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
2,2-Dichloropropane	ND	2.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
1,1-Dichloropropene	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
Hexachlorobutadiene	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
2-Hexanone	ND	10		µg/L	1	3/16/2022 8:21:29 PM	R86534			
Isopropylbenzene	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
4-Isopropyltoluene	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
4-Methyl-2-pentanone	ND	10		ua/L	1	3/16/2022 8:21:29 PM	R86534			
Methylene Chloride	ND	3.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
n-Butvlbenzene	ND	3.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
n-Propylbenzene	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
sec-Butylbenzene	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
Styrene	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
tert-Butylbenzene	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
Tetrachloroethene (PCE)	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
trans-1.2-DCE	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
trans-1.3-Dichloropropene	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
1.2.3-Trichlorobenzene	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
1.2.4-Trichlorobenzene	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
1.1.1-Trichloroethane	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
1.1.2-Trichloroethane	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
Trichloroethene (TCE)	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
Trichlorofluoromethane	ND	1.0		µg/L	1	3/16/2022 8:21:29 PM	R86534			
1.2.3-Trichloropropane	ND	2.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
Vinvl chloride	ND	1.0		ua/L	1	3/16/2022 8:21:29 PM	R86534			
Xvlenes. Total	ND	1.5		ua/L	1	3/16/2022 8:21:29 PM	R86534			
Surr: 1,2-Dichloroethane-d4	90.4 7	0-130		%Rec	1	3/16/2022 8:21:29 PM	R86534			
Surr: 4-Bromofluorobenzene	101 7	0-130		%Rec	1	3/16/2022 8:21:29 PM	R86534			
Surr: Dibromofluoromethane	89.3 7	0-130		%Rec	1	3/16/2022 8:21:29 PM	R86534			
Surr: Toluene-d8	103 7	0-130		%Rec	1	3/16/2022 8:21:29 PM	R86534			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 14

Analytical Report

Lab Order 2203586

Date Reported: 3/18/2022

Analyses		Result	RL Qual Units	DF Date Analyzed	Batch	
Lab ID:	2203586-002	Matrix: AQUEOUS	Received Dat	e: 3/10/2022 8:00:00 AM		
Project:	2D1 Bruce R Sullivan 2		Collection Dat	e: 3/9/2022 10:05:00 AM		
CLIENT:	ENSOLUM	Client Sample ID: MW-2				

EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	30	2.5	mg/L	5	3/10/2022 6:33:50 PM	R86417
EPA METHOD 8260B: VOLATILES					Analyst	JR
Benzene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Toluene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Ethylbenzene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Naphthalene	ND	2.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
2-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Acetone	ND	10	µg/L	1	3/16/2022 9:47:02 PM	R86534
Bromobenzene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Bromodichloromethane	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Bromoform	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Bromomethane	ND	3.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
2-Butanone	ND	10	µg/L	1	3/16/2022 9:47:02 PM	R86534
Carbon disulfide	ND	10	µg/L	1	3/16/2022 9:47:02 PM	R86534
Carbon Tetrachloride	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Chlorobenzene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Chloroethane	ND	2.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Chloroform	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Chloromethane	ND	3.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
2-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
4-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
cis-1,2-DCE	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Dibromochloromethane	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Dibromomethane	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,2-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,3-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,4-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
Dichlorodifluoromethane	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,1-Dichloroethane	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,1-Dichloroethene	ND	1.0	µg/L	1	3/16/2022 9:47:02 PM	R86534
1,2-Dichloropropane	ND	1.0	μg/L	1	3/16/2022 9:47:02 PM	R86534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

В Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 3 of 14

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Analytical Report Lab Order 2203586

Date	Reported	3/18/2022	

Hall Environmental Analysis Laboratory, Inc.						Date Reported: 3/18/2022			
CLIENT: ENSOLUM		C	lient Sa	ample I	D:M	W-2			
Project: 2D1 Bruce R Sullivan 2	Collection Date: 3/9/2022 10:05:00 AM								
Lah ID: 2203586-002	Matrix: AOUFOUS Received Date: 3/10/2022 8:00:00 AM								
Lab ID: 2203300-002	Matrix. AQUEUUS	Matrix. AQUEOUS Received I							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 8260B: VOLATILES						Analyst	JR		
1,3-Dichloropropane	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
2,2-Dichloropropane	ND	2.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
1,1-Dichloropropene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Hexachlorobutadiene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
2-Hexanone	ND	10		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Isopropylbenzene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
4-Isopropyltoluene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
4-Methyl-2-pentanone	ND	10		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Methylene Chloride	ND	3.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
n-Butylbenzene	ND	3.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
n-Propylbenzene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
sec-Butylbenzene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Styrene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
tert-Butylbenzene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
trans-1,2-DCE	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Trichlorofluoromethane	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Vinyl chloride	ND	1.0		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Xylenes, Total	ND	1.5		µg/L	1	3/16/2022 9:47:02 PM	R86534		
Surr: 1,2-Dichloroethane-d4	95.6 7	0-130		%Rec	1	3/16/2022 9:47:02 PM	R86534		
Surr: 4-Bromofluorobenzene	106 7	0-130		%Rec	1	3/16/2022 9:47:02 PM	R86534		
Surr: Dibromofluoromethane	96.4 7	0-130		%Rec	1	3/16/2022 9:47:02 PM	R86534		
Surr: Toluene-d8	104 7	0-130		%Rec	1	3/16/2022 9:47:02 PM	R86534		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S

В Analyte detected in the associated Method Blank

- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 4 of 14
Analytical Report

Hall Environmental Analysis	Laboratory, Inc.
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Lab Order 2203586

Date Reported: 3/18/2022

	HOD 200 0: ANIONS			Analı		
Analyses		Result	RL Qual Units	DF Date Analyzed	Batch	
Lab ID:	2203586-003	Matrix: AQUEOUS	Received Dat	e: 3/10/2022 8:00:00 AM		
Project:	2D1 Bruce R Sullivan 2		Collection Dat	te: 3/9/2022 10:45:00 AM		
CLIENT:	ENSOLUM	Client Sample ID: MW-3				

EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	11	2.5	mg/L	5	3/10/2022 6:59:34 PM	R86417
EPA METHOD 8260B: VOLATILES					Analyst:	JR
Benzene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Toluene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Ethylbenzene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Naphthalene	ND	2.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
2-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Acetone	ND	10	µg/L	1	3/16/2022 10:15:27 PM	R86534
Bromobenzene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Bromodichloromethane	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Bromoform	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Bromomethane	ND	3.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
2-Butanone	ND	10	µg/L	1	3/16/2022 10:15:27 PM	R86534
Carbon disulfide	ND	10	µg/L	1	3/16/2022 10:15:27 PM	R86534
Carbon Tetrachloride	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Chlorobenzene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Chloroethane	ND	2.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Chloroform	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Chloromethane	ND	3.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
2-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
4-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
cis-1,2-DCE	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Dibromochloromethane	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Dibromomethane	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,2-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,3-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,4-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
Dichlorodifluoromethane	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,1-Dichloroethane	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,1-Dichloroethene	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534
1,2-Dichloropropane	ND	1.0	µg/L	1	3/16/2022 10:15:27 PM	R86534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

В Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 5 of 14

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Analytical Report Lab Order 2203586

Date Reported	3/18/2022

Hall Environmental Analys	sis Laboratory, Inc	~•				Date Reported: 3/18/202	22
CLIENT: ENSOLUM		C	lient Sa	mple I	D:M	W-3	
Project: 2D1 Bruce R Sullivan 2		(Collect	ion Dat	te: 3/9	9/2022 10:45:00 AM	
Lab ID: 2203586-003	Matrix: AQUEOUS		Receiv	ved Dat	t e: 3/	10/2022 8:00:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst:	JR
1,3-Dichloropropane	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
2,2-Dichloropropane	ND	2.0		μg/L	1	3/16/2022 10:15:27 PM	R86534
1,1-Dichloropropene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
Hexachlorobutadiene	ND	1.0		μg/L	1	3/16/2022 10:15:27 PM	R86534
2-Hexanone	ND	10		μg/L	1	3/16/2022 10:15:27 PM	R86534
Isopropylbenzene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
4-Isopropyltoluene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
4-Methyl-2-pentanone	ND	10		µg/L	1	3/16/2022 10:15:27 PM	R86534
Methylene Chloride	ND	3.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
n-Butylbenzene	ND	3.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
n-Propylbenzene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
sec-Butylbenzene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
Styrene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
tert-Butylbenzene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
trans-1,2-DCE	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
Trichlorofluoromethane	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
Vinyl chloride	ND	1.0		µg/L	1	3/16/2022 10:15:27 PM	R86534
Xylenes, Total	ND	1.5		µg/L	1	3/16/2022 10:15:27 PM	R86534
Surr: 1,2-Dichloroethane-d4	87.8 7	'0-130		%Rec	1	3/16/2022 10:15:27 PM	R86534
Surr: 4-Bromofluorobenzene	101 7	'0-130		%Rec	1	3/16/2022 10:15:27 PM	R86534
Surr: Dibromofluoromethane	91.4 7	'0-130		%Rec	1	3/16/2022 10:15:27 PM	R86534
Surr: Toluene-d8	101 7	′0-130		%Rec	1	3/16/2022 10:15:27 PM	R86534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* **Qualifiers:**

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 5/17/2023 7:51:56 AM

Analytical Report

Hall Envi	ironmental	Analysis	Laboratory,	Inc.
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Lab Order 2203586

Date Reported: 3/18/2022

Lab ID: 2203 Analyses	5500-004	Result	RL Qual Units	DF Date Analyzed	Batch		
Lab ID: 2203	00000	Matrix: AQUEOUS	Receiveu Dat	c. 5/10/2022 8.00.00 Alvi			
	3586-004	Matrix: AOUFOUS	Received Dat	0.3/10/2022 8.00.00 AM			
Project: 2D1	Bruce R Sullivan 2		Collection Dat	te: 3/9/2022 11:20:00 AM			
CLIENT: ENS	SOLUM		Client Sample ID: MW-4				

EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	8.8	2.5	mg/L	5	3/10/2022 7:25:18 PM	R86417
EPA METHOD 8260B: VOLATILES					Analyst:	JR
Benzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Toluene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Ethylbenzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Naphthalene	ND	2.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
2-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Acetone	ND	10	µg/L	1	3/16/2022 10:43:59 PM	R86534
Bromobenzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Bromodichloromethane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Bromoform	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Bromomethane	ND	3.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
2-Butanone	ND	10	µg/L	1	3/16/2022 10:43:59 PM	R86534
Carbon disulfide	ND	10	µg/L	1	3/16/2022 10:43:59 PM	R86534
Carbon Tetrachloride	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Chlorobenzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Chloroethane	ND	2.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Chloroform	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Chloromethane	ND	3.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
2-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
4-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
cis-1,2-DCE	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Dibromochloromethane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Dibromomethane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,2-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,3-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,4-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Dichlorodifluoromethane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,1-Dichloroethane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,1-Dichloroethene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,2-Dichloropropane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

В Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

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Analytical Report Lab Order 2203586

Date	Reported	3/18/2022	

Hall Environmental Analysi	is Laboratory, Inc				Date Reported: 3/18/20	22
CLIENT: ENSOLUM Project: 2D1 Bruce R Sullivan 2 Lab ID: 2203586-004	Matrix: AQUEOUS	Cl	lient Sample I Collection Dat Received Dat	D:M te:3/ te:3/	IW-4 9/2022 11:20:00 AM 10/2022 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: JR
1,3-Dichloropropane	ND	1.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
2,2-Dichloropropane	ND	2.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,1-Dichloropropene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Hexachlorobutadiene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
2-Hexanone	ND	10	µg/L	1	3/16/2022 10:43:59 PM	R86534
Isopropylbenzene	ND	1.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
4-Isopropyltoluene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
4-Methyl-2-pentanone	ND	10	μg/L	1	3/16/2022 10:43:59 PM	R86534
Methylene Chloride	ND	3.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
n-Butylbenzene	ND	3.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
n-Propylbenzene	ND	1.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
sec-Butylbenzene	ND	1.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
Styrene	ND	1.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
tert-Butylbenzene	ND	1.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
trans-1,2-DCE	ND	1.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
1,1,1-Trichloroethane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,1,2-Trichloroethane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Trichloroethene (TCE)	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
Trichlorofluoromethane	ND	1.0	µg/L	1	3/16/2022 10:43:59 PM	R86534
1,2,3-Trichloropropane	ND	2.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
Vinyl chloride	ND	1.0	μg/L	1	3/16/2022 10:43:59 PM	R86534
Xylenes, Total	ND	1.5	μg/L	1	3/16/2022 10:43:59 PM	R86534
Surr: 1,2-Dichloroethane-d4	90.9 7	70-130	%Rec	1	3/16/2022 10:43:59 PM	R86534
Surr: 4-Bromofluorobenzene	99.9 7	70-130	%Rec	1	3/16/2022 10:43:59 PM	R86534
Surr: Dibromofluoromethane	91.8 7	70-130	%Rec	1	3/16/2022 10:43:59 PM	R86534
Surr: Toluene-d8	103 7	70-130	%Rec	1	3/16/2022 10:43:59 PM	R86534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* **Qualifiers:**

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

В Analyte detected in the associated Method Blank

- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 8 of 14

Analytical Report

Hall	Environmental	Analysis	Laboratory, Inc.	
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Lab Order 2203586

Date Reported: 3/18/2022

Analyses		Result	RL Qual Units DF Date Analyzed	Batch
Lab ID:	2203586-005	Matrix: AQUEOUS	Received Date: 3/10/2022 8:00:00 AM	
Project:	2D1 Bruce R Sullivan 2		Collection Date: 3/9/2022 12:05:00 PM	
CLIENT:	ENSOLUM		Client Sample ID: MW-1R	

EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	49	2.5	mg/L	5	3/10/2022 7:51:01 PM	R86417
EPA METHOD 8260B: VOLATILES					Analyst:	JR
Benzene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Toluene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Ethylbenzene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Naphthalene	ND	2.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
2-Methylnaphthalene	ND	4.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Acetone	ND	10	µg/L	1	3/16/2022 11:12:34 PM	R86534
Bromobenzene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Bromodichloromethane	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Bromoform	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Bromomethane	ND	3.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
2-Butanone	ND	10	µg/L	1	3/16/2022 11:12:34 PM	R86534
Carbon disulfide	ND	10	µg/L	1	3/16/2022 11:12:34 PM	R86534
Carbon Tetrachloride	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Chlorobenzene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Chloroethane	ND	2.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Chloroform	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Chloromethane	ND	3.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
2-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
4-Chlorotoluene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
cis-1,2-DCE	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Dibromochloromethane	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Dibromomethane	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,2-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,3-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,4-Dichlorobenzene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
Dichlorodifluoromethane	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,1-Dichloroethane	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,1-Dichloroethene	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534
1,2-Dichloropropane	ND	1.0	µg/L	1	3/16/2022 11:12:34 PM	R86534

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference s

В Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 9 of 14

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Analytical Report Lab Order 2203586

Date Reported	3/18/2022	

Hall E	nvironmental Analys		Date Reported: 3/18/202	22									
CLIENT:	ENSOLUM		Client Sample ID: MW-1R										
Project:	2D1 Bruce R Sullivan 2			Collect	lon Dai	te: 3/9	9/2022 12:05:00 PM						
Lab ID:	2203586-005	Matrix: AQUEOUS		Recei	ved Dat	t e: 3/1	10/2022 8:00:00 AM						
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch					
EPA MET	THOD 8260B: VOLATILES						Analyst	JR					
1,3-Dich	loropropane	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
2,2-Dich	loropropane	ND	2.0		μg/L	1	3/16/2022 11:12:34 PM	R86534					
1,1-Dich	loropropene	ND	1.0		μg/L	1	3/16/2022 11:12:34 PM	R86534					
Hexachle	orobutadiene	ND	1.0		μg/L	1	3/16/2022 11:12:34 PM	R86534					
2-Hexan	one	ND	10		µg/L	1	3/16/2022 11:12:34 PM	R86534					
Isopropy	Ibenzene	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
4-Isopro	pyltoluene	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
4-Methyl	-2-pentanone	ND	10		µg/L	1	3/16/2022 11:12:34 PM	R86534					
Methyler	ne Chloride	ND	3.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
n-Butylb	enzene	ND	3.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
n-Propyl	benzene	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
sec-Buty	Ibenzene	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
Styrene		ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
tert-Buty	lbenzene	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
1,1,1,2-7	Fetrachloroethane	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
1,1,2,2-1	Fetrachloroethane	ND	2.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
Tetrachle	oroethene (PCE)	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
trans-1,2	2-DCE	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
trans-1,3	3-Dichloropropene	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
1,2,3-Tri	chlorobenzene	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
1,2,4-Tri	chlorobenzene	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
1,1,1-Tri	chloroethane	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
1,1,2-Tri	chloroethane	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
Trichlord	ethene (TCE)	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
Trichlord	ofluoromethane	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
1,2,3-Tri	chloropropane	ND	2.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
Vinyl chl	oride	ND	1.0		µg/L	1	3/16/2022 11:12:34 PM	R86534					
Xylenes,	Total	ND	1.5		µg/L	1	3/16/2022 11:12:34 PM	R86534					
Surr:	1,2-Dichloroethane-d4	102 7	70-130		%Rec	1	3/16/2022 11:12:34 PM	R86534					
Surr: 4	4-Bromofluorobenzene	102 7	70-130		%Rec	1	3/16/2022 11:12:34 PM	R86534					
Surr: I	Dibromofluoromethane	94.3 7	70-130		%Rec	1	3/16/2022 11:12:34 PM	R86534					
Surr:	Toluene-d8	103 7	70-130		%Rec	1	3/16/2022 11:12:34 PM	R86534					

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S

В Analyte detected in the associated Method Blank

- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 10 of 14

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	ENSOLUM 2D1 Bruce R Sullivan	2								
Sample ID: MB	SampTyp	e: mt	olk	Test	tCode: EF	PA Method	300.0: Anions			
Client ID: PBW	Batch I	RunNo: 86417								
Prep Date:	Analysis Date): 3/	10/2022	S	SeqNo: 30	048600	Units: mg/L			
Analyte	Result I	۶QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sample ID: LCS	SampTyp	e: Ics	5	Test	tCode: EF	PA Method	300.0: Anions	;		
Client ID: LCSW	Batch IE): R8	6417	R	unNo: 86	6417				
Prep Date:	Analysis Date): 3/	10/2022	S	SeqNo: 30	048601	Units: mg/L			
Analyte	Result I	۶QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2203586

18-Mar-22

WO#:

ENSOLUM

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample Diluted Due to Matrix

PQL Practical Quanitative Limit

Not Detected at the Reporting Limit

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix interference

Released to Imaging: 5/17/2023 7:51:56 AM

Qualifiers: *

D

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ND

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Project: 2D1 Bruc	e R Sulliva	n 2								
Sample ID: 100ng Ics	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	ID: R8	6534	F	RunNo: 86	534				
Prep Date:	Analysis Da	te: 3/	16/2022	5	SeqNo: 30)53797	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	22	1.0	20.00	0	110	70	130			
Chlorobenzene	22	1.0	20.00	0	111	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	104	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.7	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.3	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.3	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			
Sample ID: 2203586-001ams	SampTy	pe: MS	5	Tes	tCode: EF	PA Method	8260B: VOL	ATILES		
Client ID: MW-5	Batch ID: R86534		F	RunNo: 86534						
Prep Date:	Analysis Da	te: 3/	16/2022	S	SeqNo: 30	53800	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.1	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	84.9	70	130			
Trichloroethene (TCE)	16	1.0	20.00	0	81.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.7	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.1	70	130			
Surr: Dibromofluoromethane	9.2		10.00		91.9	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			
Sample ID: 2203586-001amsd	SampTy	pe: MS	D	Tes	tCode: EF	PA Method	8260B: VOL	ATILES		
Client ID: MW-5	Batch	ID: R8	6534	F	RunNo: 86	6534				
Prep Date:	Analysis Da	te: 3/	16/2022	5	SeqNo: 30	053801	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.0	70	130	8.83	20	
Toluene	19	1.0	20.00	0	94.3	70	130	10.4	20	
Chlorobenzene	19	1.0	20.00	0	95.3	70	130	7.53	20	
1,1-Dichloroethene	16	1.0	20.00	0	81.7	70	130	3.87	20	
Trichloroethene (TCE)	15	1.0	20.00	0	77.3	70	130	5.65	20	
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.7	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130	0	0	
Surr: Dibromofluoromethane	9.3		10.00		93.4	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		99.1	70	130	0	0	

в Analyte detected in the associated Method Blank

Е Estimated value

Analyte detected below quantitation limits J

Р Sample pH Not In Range

RL Reporting Limit Page 12 of 14

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WO#: 2203586

18-Mar-22

QC SUMMARY REPORT Hall Er

	WO#:	2203586
nvironmental Analysis Laboratory, Inc.		18-Mar-22

Client: I	ENSOLUM										
Project: 2	2D1 Bruce R Sulliv	van 2									
Sample ID: mb	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batc	h ID: R8	6534	F	RunNo: 8	6534					
Prep Date:	Analysis I	Date: 3/	16/2022	S	SeqNo: 3	053806	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTI	BE) ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	3.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	3.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1.2-DCE	ND	1.0									
cis-1.3-Dichloropropene	ND	1.0									
1.2-Dibromo-3-chloropropa	ane ND	2.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
1.2-Dichlorobenzene	ND	1.0									
1.3-Dichlorobenzene	ND	1.0									
1.4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1.1-Dichloroethane	ND	1.0									
1.1-Dichloroethene	ND	1.0									
1.2-Dichloropropane	ND	1.0									
1.3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

В Analyte detected in the associated Method Blank Е

Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 13 of 14

Released to Imaging: 5/17/2023 7:51:56 AM

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2203586
	18-Mar-22

Client:ENSOLUMProject:2D1 Bruce R Sullivan 2

Sample ID: mb	SampT	ype: ME	BLK	TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch	n ID: R8	6534	RunNo: 86534							
Prep Date:	Analysis D	ate: 3/	16/2022	S	SeqNo: 30)53806	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
1,1-Dichloropropene	ND	1.0									
Hexachlorobutadiene	ND	1.0									
2-Hexanone	ND	10									
Isopropylbenzene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	10									
Methylene Chloride	ND	3.0									
n-Butylbenzene	ND	3.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	2.0									
Tetrachloroethene (PCE)	ND	1.0									
trans-1,2-DCE	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.5									
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.6	70	130				
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130				
Surr: Dibromofluoromethane	9.7		10.00		97.1	70	130				
Surr: Toluene-d8	9.9		10.00		99.4	70	130				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Released to Imaging: 5/17/2023 7:51:56 AM

Received by	OCD:	6/23/2022	9:04:00 AM
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ed by OCD: 6/23/2022 9:04:00 AM				Page 83
HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Alb TEL: 505-345-397: Website: clients.he	l Analysis Laboratory 4901 Hawkins NE uquerque. NM 87109 5 FAX: 505-345-4107 allenvironmental.com	Sar	nple Log-In Check List
Client Name: ENSOLUM	Work Order Number	2203586		RcptNo: 1
Received By: Tracy Casarrubias	3/10/2022 8:00:00 AM	ļ		
Completed By: Tracy Casarrubias	3/10/2022 9:22:16 AM			
Reviewed By: 3-10-22				
Chain of Custody				
. Is Chain of Custody complete?		Yes 🔽	No 🗌	Not Present
How was the sample delivered?		Courier		
Log In				
B. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA 🗌
. Were all samples received at a temperature o	f >0° C to 6.0°C	Yes 🔽	No 🗌	
. Sample(s) in proper container(s)?		Yes 🔽	No 🗌	
). Sufficient sample volume for indicated test(s)?		Yes 🗸	No 🗌	
Are samples (except VOA and ONG) properly	preserved?	Yes 🔽	No 🗌	
. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗌
. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes 🗌 🛛	No 🗌	NA 🗸
). Were any sample containers received broken?	?	Yes	No 🔽	# of preserved
. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH:
Are matrices correctly identified on Chain of Cu	ustodv?	Yes 🗸		(<2 or >12 unless noted) Adjusted?
Is it clear what analyses were requested?		Yes 🗸	No 🗌	
. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: JA 3/10/22
pecial Handling (if applicable)			~	
. Was client notified of all discrepancies with thi	s order?	Yes	No 🗌	
Person Notified:	Date:		anatori da ana	
By Whom:				
Regarding	via.		∐ Fax	
Client Instructions			CONTRACTOR AND A CONTRACT	

.

16. Additional remarks:

17.	Cooler Information	

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By	
1	0.1	Good	Yes			eigned by	

Page 1 of 1

Re in necessary, samples submitted to Hall Environmental may be subd	ived 1/22 1824 Appletin Walter	Salarison And Ar	Sate: Time: Relinquished by:	(23/20	922 9:			3/1/22 12 05 W NW-1R	y-mm m or nor	3/1/22 1045 W MW-3	3/1/22 1005 W MW-2	319/22 915 W MW-S	Date Time Matrix Sample Name		EDD (Type)	Accreditation: Az Compliance NELAC Other	□ Standard □ Level 4 (Full Validation)	QA/QC Package:	email or Fax#: Ksymmers@ensolum.com	Phone #:	AzteciNM 87410	Mailing Address: 606 S Rio Grance Suite A	P	s Ensolum, LLC	Chain-of-Custody Record	5
Untracted to other accredited laboratories. This serves as notice of this	Received by: Via: ocus, Date Time	1 MM + Wart 3/9/22 1504	Received by: Via: Date Time					Various Various Cost	Vanues Varias 004	Vaneus Vareus 003	Varias Varies 002	VARIOUS VARIANS 001	Container Preservative HEAL No. Type and # Type 220358 (<i>b</i>	Cooler Temp(including CF): 0 1 0 2 0 1 (°C)	# of Coolers:	Sampler: PDeechilly On Ice: D Yes D No			Project Manager: KSummers		Project #: See notes	aD-1/Bruce R Sullivan#2	Pròject Name:	Standard 🗆 Rush	Turn-Around Time:	
s possibility. Any sub-contracted data will be clearly notated on the analytical report.	Pay Key - R1321200	Non, AFE- NS-4659	Remarks:					× ×	× ×	XXX	× ×	× ×	BTEX / TPH:801 8081 Pe: EDB (Me PAHs by RCRA 8 Cl, F, Br 8260 (VC 8270 (Se Total Col <i>Chlor</i>	MTE 5D((sticid ethoo 831 Met. , N(DA) emi-\ (de	3E GR des d 5 0 0 als 0 ₃ , 7 /0 n (/ TMB (0 / DR (04.1) (04.1) (07.827(() () () () () () () () () ('s ((0 / PC) DSIN PO	3021 MR(B's 4, S(1) D) O4 nt)	Analysis Request	Tel. 505-345-3975 Fax 505-345-4107	4901 Hawkins NE - Albuquerque, NM 87109				

.



April 21, 2022

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX:

RE: Bruce R Sullivan 2

OrderNo.: 2204650

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/13/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Surr: Toluene-d8

Analytical Report Lab Order 2204650

Hall Environmental Analy	ysis Laboratory, Inc.	Laboratory, Inc.							
CLIENT: ENSOLUM		Cli	ient Sample II	D: M	W-5				
Project: Bruce R Sullivan 2		(Collection Dat	te: 4/13/2022 9:20:00 AM					
Lab ID: 2204650-001	Matrix: AQUEOUS		Received Dat	e: 4/1	13/2022 1:56:00 PM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 8260: VOLATILES S	HORT LIST				Analys	t: JR			
Benzene	ND	1.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
Toluene	ND	1.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
Ethylbenzene	ND	1.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
Naphthalene	ND	2.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
1-Methylnaphthalene	ND	4.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
2-Methylnaphthalene	ND	4.0	µg/L	1	4/19/2022 4:18:28 PM	R87357			
Xylenes, Total	ND	1.5	µg/L	1	4/19/2022 4:18:28 PM	R87357			
Surr: 1,2-Dichloroethane-d4	100 7	0-130	%Rec	1	4/19/2022 4:18:28 PM	R87357			
Surr: 4-Bromofluorobenzene	104 7	0-130	%Rec	1	4/19/2022 4:18:28 PM	R87357			
Surr: Dibromofluoromethane	108 7	0-130	%Rec	1	4/19/2022 4:18:28 PM	R87357			

95.7

70-130

%Rec

1

4/19/2022 4:18:28 PM

R87357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204650

Date Reported: 4/21/2022

CLIENT: Project:	ENSOLUM Bruce R Sullivan 2		Cli	ient Sample Collection D	ID: N ate: 4	IW-4 /13/2022 9:50:00 AM			
Lab ID:	2204650-002	Matrix: AQUEOUS		Received D	ate: 4	/13/2022 1:56:00 PM			
Analyses		Result	RL	s Dl	DF Date Analyzed				
EPA MET	HOD 8260: VOLATILES S	HORT LIST				Analyst	: JR		
Benzene		ND	1.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
Toluene		ND	1.0	μg/L	1	4/19/2022 4:46:55 PM	R87357		
Ethylbenz	zene	ND	1.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
Methyl te	rt-butyl ether (MTBE)	ND	1.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
1,2,4-Trir	nethylbenzene	ND	1.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
1,3,5-Trir	nethylbenzene	ND	1.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
1,2-Dichl	oroethane (EDC)	ND	1.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
1,2-Dibro	moethane (EDB)	ND	1.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
Naphthal	ene	ND	2.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
1-Methylr	naphthalene	ND	4.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
2-Methylr	naphthalene	ND	4.0	µg/L	1	4/19/2022 4:46:55 PM	R87357		
Xylenes,	Total	ND	1.5	µg/L	1	4/19/2022 4:46:55 PM	R87357		
Surr: 1	,2-Dichloroethane-d4	98.8 7	0-130	%Re	c 1	4/19/2022 4:46:55 PM	R87357		
Surr: 4	-Bromofluorobenzene	99.3 7	0-130	%Re	c 1	4/19/2022 4:46:55 PM	R87357		

113

97.0

70-130

70-130

%Rec

%Rec

1

1

4/19/2022 4:46:55 PM

4/19/2022 4:46:55 PM

R87357

R87357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Analytical Report

Lab Order 2204650

Date Reported: 4/21/2022

CLIENT:	ENSOLUM		Client Sample ID: MW-3									
Project:	Bruce R Sullivan 2			. (Collect	ion Dat	e: 4/1	3/2022 10:30:00 AM				
Lab ID:	2204650-003	Matrix:	AQUEOUS		Receiv	ved Dat	3/2022 1:56:00 PM					
Analyses		R	Result			Units	DF	Date Analyzed	Batch			
EPA MET	THOD 8260: VOLATILES S	HORT LIST						Analyst	: JR			
Benzene			ND	1.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
Toluene			ND	1.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
Ethylben	zene		ND	1.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
Methyl te	rt-butyl ether (MTBE)		ND	1.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
1,2,4-Trir	methylbenzene		ND	1.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
1,3,5-Trir	methylbenzene		ND	1.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
1,2-Dichl	oroethane (EDC)		ND	1.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
1,2-Dibro	omoethane (EDB)		ND	1.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
Naphthal	ene		ND	2.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
1-Methylr	naphthalene		ND	4.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
2-Methylr	naphthalene		ND	4.0		µg/L	1	4/19/2022 5:15:25 PM	R87357			
Xylenes,	Total		ND	1.5		µg/L	1	4/19/2022 5:15:25 PM	R87357			
Surr: 1	I,2-Dichloroethane-d4		101	70-130		%Rec	1	4/19/2022 5:15:25 PM	R87357			
Surr: 4	1-Bromofluorobenzene		101	70-130		%Rec	1	4/19/2022 5:15:25 PM	R87357			
Surr: E	Dibromofluoromethane		112	70-130		%Rec	1	4/19/2022 5:15:25 PM	R87357			
Surr: T	Foluene-d8		95.9	70-130		%Rec	1	4/19/2022 5:15:25 PM	R87357			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

Surr: Toluene-d8

Analytical Report

Hall	Environmental	Analysis	Laboratory, Inc.
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Lab Order 2204650

Date Reported: 4/21/2022

CLIENT:	ENSOLUM		Client Sample ID: MW-2									
Project:	Bruce R Sullivan 2			(Collect	ion Dat	e: 4/1	3/2022 11:30:00 AM				
Lab ID:	2204650-004	Matrix:	AQUEOU	S	Receiv	ved Dat	e: 4/1	3/2022 1:56:00 PM				
Analyses		R	esult	RL	RL Qual Units		DF	Date Analyzed	Batch			
EPA ME	THOD 8260: VOLATILES S	HORT LIST						Analyst	: JR			
Benzene			ND	1.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
Toluene			ND	1.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
Ethylben	zene		ND	1.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
Methyl te	ert-butyl ether (MTBE)		ND	1.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
1,2,4-Tri	methylbenzene		ND	1.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
1,3,5-Tri	methylbenzene		ND	1.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
1,2-Dich	loroethane (EDC)		ND	1.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
1,2-Dibro	omoethane (EDB)		ND	1.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
Naphtha	lene		ND	2.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
1-Methyl	naphthalene		ND	4.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
2-Methyl	naphthalene		ND	4.0		µg/L	1	4/19/2022 5:44:06 PM	R87357			
Xylenes,	Total		ND	1.5		µg/L	1	4/19/2022 5:44:06 PM	R87357			
Surr: 2	1,2-Dichloroethane-d4		99.5	70-130		%Rec	1	4/19/2022 5:44:06 PM	R87357			
Surr: 4	1-Bromofluorobenzene		101	70-130		%Rec	1	4/19/2022 5:44:06 PM	R87357			
Surr: [Dibromofluoromethane		115	70-130		%Rec	1	4/19/2022 5:44:06 PM	R87357			

97.9

70-130

%Rec

1

4/19/2022 5:44:06 PM

R87357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Surr: Toluene-d8

Analytical Report Lab Order 2204650

Date Reported: 4/21/202	Hall Environmental Analysis Laboratory, Inc.	Date Reported: 4/21/2022
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CLIENT: Project: Lab ID:	ENSOLUM Bruce R Sullivan 2 2204650-005	Matrix: AQUE	Client Sample ID: MW-1R Collection Date: 4/13/2022 12:25:00 PM Matrix: AQUEOUS Received Date: 4/13/2022 1:56:00 PM									
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	THOD 8260: VOLATILES S	HORT LIST				Analyst	: JR					
Benzene		ND	1.0	µg/L	1	4/19/2022 6:12:37 PM	R87357					
Toluene		ND	1.0	μg/L	1	4/19/2022 6:12:37 PM	R87357					
Ethylben	zene	ND	1.0	µg/L	1	4/19/2022 6:12:37 PM	R87357					
Methyl te	rt-butyl ether (MTBE)	ND	1.0	µg/L	1	4/19/2022 6:12:37 PM	R87357					
1,2,4-Trii	methylbenzene	ND	1.0	µg/L	1	4/19/2022 6:12:37 PM	R87357					
1,3,5-Trii	methylbenzene	ND	1.0	μg/L	1	4/19/2022 6:12:37 PM	R87357					
1,2-Dichl	oroethane (EDC)	ND	1.0	μg/L	1	4/19/2022 6:12:37 PM	R87357					
1,2-Dibro	omoethane (EDB)	ND	1.0	μg/L	1	4/19/2022 6:12:37 PM	R87357					
Naphthal	ene	ND	2.0	μg/L	1	4/19/2022 6:12:37 PM	R87357					
1-Methylı	naphthalene	ND	4.0	μg/L	1	4/19/2022 6:12:37 PM	R87357					
2-Methyli	naphthalene	ND	4.0	μg/L	1	4/19/2022 6:12:37 PM	R87357					
Xylenes,	Total	ND	1.5	μg/L	1	4/19/2022 6:12:37 PM	R87357					
Surr: 1	,2-Dichloroethane-d4	98.1	70-130	%Rec	1	4/19/2022 6:12:37 PM	R87357					
Surr: 4	I-Bromofluorobenzene	99.6	70-130	%Rec	1	4/19/2022 6:12:37 PM	R87357					
Surr: D	Dibromofluoromethane	110	70-130	%Rec	1	4/19/2022 6:12:37 PM	R87357					

96.3

70-130

%Rec

1

4/19/2022 6:12:37 PM

R87357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: *

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:ENSOLUMProject:Bruce R Sullivan 2

Sample ID: mb	SampType: MBLK TestCode: EPA Method 8260: Volatiles Short List									
Client ID: PBW	Batch	Batch ID: R87357 RunNo: 87357								
Prep Date:	Analysis D)ate: 4/*	19/2022	S	SeqNo: 30	90021	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.7	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.7		10.00		96.6	70	130			
	0T			T						

Sample ID: 100ng Ics	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: LCSW	Batch	n ID: R8	7357	F	RunNo: 8 7	7357				
Prep Date:	Analysis D	Date: 4/1	19/2022	S	SeqNo: 3(90035	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.6	70	130			
Toluene	18	1.0	20.00	0	91.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.3	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.8	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	9.6		10.00		95.6	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Received by	, OCD :	6/23/2022	9:04:00 AM
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HALL ENVIF ANAL LABO	RONMENT YSIS RATORY	Γ ΑL	Ha TE	ll Environme L: 505-345 Website: ww	ental Anal 49 Albuquer 3975 FAX w.hallenv.	vsis Labo 01 Hawk que. NM • 505-34. ironment	oratory ins NE 87109 Sat 5-4107 al.com	Sample Log-In Check List								
Client Name:	ENSOLU	M	Work	Order Num	ber: 220	4650		RcptNo: 1								
Received By:	Tracy Ca	sarrubias	4/13/20	22 1:56:00	РМ											
Completed By:	Tracy Ca	sarrubias	4/14/20	22 10:19:4	8 AM											
Reviewed By:	<i>f</i> 4.	14-22														
Chain of Cus	tody															
1. Is Chain of C	ustody com	plete?			Yes	\checkmark	No 🗌	Not Present								
2. How was the	sample deli	vered?			Cou	rier										
<u>Log In</u> 3. Was an attem	nt made to	cool the sam	unles?		Vee											
		coor the sam	ipies?		res			NA 🗔								
1. Were all samp	oles receive	d at a temper	ature of >0° C	to 6.0°C	Yes		No 🔽									
Sample(s) in a	propor contr				Sam	ples no	ot Frozen									
· Sample(s) in j	proper conta	amer(s)?			Yes	\checkmark	No 🗌									
. Sufficient sam	ple volume	for indicated	test(s)?		Yes	\checkmark	No 🗌									
Are samples (except VOA	and ONG) p	roperly preserve	ed?	Yes	\checkmark	No 🗌									
. Was preserva	tive added t	o bottles?			Yes		No 🔽	NA 🗌								
. Received at le	ast 1 vial wi	th headspace	e <1/4" for AQ V	OA?	Yes		No 🗌	NA 🔽								
0. Were any sample containers received broken?							No 🔽		10							
l.Does paperwo	rk match bo	ttle labels?			Yes		No 🗌	# of preserved bottles checked for pH:	04/14/2025							
(Note discrepa	ncies on ch	ain of custod	у)					(<2 01	>12 unless noted)							
Are matrices c	orrectly ider	ntified on Cha	ain of Custody?		Yes		No 🗌	Adjusted?								
3, is it clear what analyses were requested?							No 🗌	Charlind								
(If no, notify cu	istomer for a	authorization.)		Yes	V	No 🗔	Спескеа by:								
ecial Handli	ing (if app	olicable)														
5. Was client not	tified of all d	iscrepancies	with this order?		Yes		No 🗌	NA 🔽								
Person I	Notified:	[Date:	ľ		Renovation									
By Who	m:			Via:	eMa	ail 🗌 I	Phone 🗌 Fax	In Person								
Regardir	ng:				nan an	and an and shak a loss										
Client In	structions:			ni felan kala kanta da ha			an ann a chuirtean ann an ann an ann an ann ann ann ann									
Additional ren	narks:															
7. Cooler Inform	nation															
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ite	Signed By									
1	0.6	Good	Yes													
3	-0.3	Good	Yes			· · · · · · · · · · · · · · · · · · ·										
4	2.1	Good	Yes													

Page 1 of 2

Yes

Good

.

Received by OCD: 6/23/2022 9:04:00 AM



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2204650

RcptNo: 1

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5 2.6 Good	Yes		3 /

Receive			www.hallenvironmental.com	Tol For 245 2007 Part of the rest of the r	Tel: 000-040-3970 FaX 000-345-410/ Analysis Regimest		00: 00: 2601 2601 2601 2601 2601 2601 2601 2601	8) s S S S S W N S S S S S S S S S S S S S S	2500 2510 2510 2510 2510 2510 2510 2510	/ T / 204. 2/8/8 2/8/8 2/2 3/9 3/9 2/4) 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/	BE (GF 10 3 5 10 3 5 10 10 3 5 10 10 3 5 10 10 3 10 10 3 10 10 10 10 10 10 10 10 10 10 10 10 10	MT 15D(915C) 915C 915C 15D(92C) 92D) 92D) 92D 92D 92D 92D 92D 92D 92D 92D 92D 92D	=====================================	ВТІ 17РІ 806 826 826 826 827 70 826 827 70 826										emarks: PM Tom Long 6.5	Nor AFE. 54059 24 2.1 2.1	ssibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time:	🕅 Standard 🛛 🗆 Rush	Project Name:	Rain PS.I.	Project #:		Project Manager:		K. Summers	Sampler: Li Daviel	On Ice: 🔽 Yes 🗆 No	# of Coolers: 5	Cooler Temp(including CF): Son NIMayle (°C)	Container Preservative HEAL No.	Type and # Type 2204050	ZXHAMUDON HyCh, 001	002	003	004	1 4 00S					Received by: Via: Lagate Time Re	Received by: Viercon Date Time U/14/ 2 S:00	intracted to other accredited laboratories. This serves as notice of this pos
Chain-of-Custody Record	Client: Enjer LUN, LLC		Mailing Address: 606 Store Concerned	AZHE-NW STYID	Phone #:	email or Fax#: KSurenerers a) and law con	QA/QC Package:	Standard Level 4 (Full Validation)	Accreditation: Accreditation: Accompliance	DINELAC Dither				Date Time Matrix Sample Name	413/22 9:20 m NAVU-5	History 50 WW CH	Alizher 10:30 W MW-3	4/13/22 W NW-2	4/13/22 12:25 W NW-1 R				Date: Dolinou inhod but	4/13/22 1356 Comparison by:	4/13/22/1834 Chrutu Would	If necessary, samples submitted to Hall Environmental may be subco

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

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

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

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CONDITIONS

Action 119789

CONDITIONS Operator: OGRID: Enterprise Field Services, LLC 241602 PO Box 4324 Action Number: Houston, TX 77210 119789 Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

CONDING		
Created By	Condition	Condition Date
nvelez	Accepted for the record. Please see App ID 175080 for most updated status.	5/17/2023