RP # 3R-438

AGWMR

2020

Review of 2020 Groundwater Monitoring Report: Content satisfactory

1. Follow recommendations stated within 2020 Groundwater Monitoring Report.

a. continue SA-GWM&S activities to evaluate the stability of COC concentrations in subsurface groundwater conduct additional sitespecific aquifer characterization

b. conduct additional sitespecific aquifer characterization & testing to evaluate the options to remediate areas of GWQ exceedances

c. submit a Stage 2 Abatement Plan once the Stage 1 Abatement Plan has been deemed administratively complete

d. the suspension of monitoring and sampling activities of MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-13, MW-14, and MW-15 is approved.

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

Printed Name:Scott Drewry	Title: P.G.
Signature: Scatt Jan	Date:8/11/2021
OCD Only	
Received by:	Date:



ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS GP, LLC (General Partner)

August 10, 2021

Submitted online via OCD E-Permitting: https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/default.aspx

Mr. Cory Smith New Mexico Energy, Minerals & Natural Resources Department – Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

Submittal: 2020 Groundwater Monitoring Report (Ensolum, March 19, 2021)

RE: Enterprise Field Services, LLC Trunk 6C Pipeline - Kutz Wash Release (09/22/11) San Juan County, New Mexico [SW ¼, S26 T28N R11W (36.63202° N, 107.97400° W)] OCD RP: 3R-438; OCD Abatement Plan No. 131

Dear Mr. Smith:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services LLC, is pleased to submit to the New Mexico (NM) Energy, Minerals & Natural Resources Department (EMNRD) – Oil Conservation Division (OCD) an electronic copy of the above-referenced document prepared by Ensolum, LLC (Ensolum) and dated March 19, 2021. The subject document is associated with the September 22, 2011 discovery of a release of natural gas condensate from the Enterprise Trunk 6C pipeline located near the Kutz Wash at the above-referenced location (the "Site"). The attached document summarizes ongoing semi-annual (SA) groundwater monitoring and sampling (GWM&S) activities that occurred at the Site in June 2020 and November 2020 (the "reporting period"). The GWM&S activities were performed to further evaluate dissolved-phased hydrocarbon (DPH), or constituents of concern (COC), concentrations in groundwater.

Data presented in the attached report indicate that COC concentrations in excess of the applicable Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (*GQSs*) remain at the Site in two monitoring wells (MW-1 and MW-17). Additionally, with the possible exception of downgradient well MW-15, the DPH plume (MW-1 and MW-17) is currently delineated by monitor wells MW-2, MW-4, MW 6 and MW-11.

Based on the information presented in the attached report, Enterprise plans to: 1) continue SA-GWM&S activities to evaluate the stability of COC concentrations in subsurface groundwater, 2) conduct additional site-specific aquifer characterization & testing to evaluate the options to remediate areas of GWQ exceedances, and 3) prepare a Stage 2 Abatement Plan (once the *Stage 1 Abatement Plan* has been fully approved and implemented).

As previously requested in the cover letter for the *2018 Groundwater Monitoring Report*, <u>Enterprise respectfully</u> <u>requests the plugging and abandonment</u> of (or the suspension of monitoring and sampling activities of): MW-3, MW-5, MW-7, MW-9, MW-12 and MW-13 (and possibly MW-8, MW-10 and MW-14).

Enterprise appreciates the OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments or concerns, or require additional information, please feel free to contact me any time at 713-381-8780, or at <u>gemiller@eprod.com</u>.

Sincerely,

regon E Mille

Gregory E. Miller, 4.G. Supervisor, Environmental

Rodney M. Sartor, REM Sr. Director, Environmental

cc: BLM, Farmington, NM – Mr. Ryan Joyner <6251 College Blvd., Suite A, Farmington, NM 87402> ec: Ensolum, Houston, TX – Mr. Marc E. Gentry <<u>MGentry@ensolum.com</u>>



2020 GROUNDWATER MONITORING REPORT

Property:

Trunk 6C Kutz Wash Pipeline Release SW ¼, S26 T28N R11W San Juan County, New Mexico

New Mexico EMNRD OCD RP No. 3RP-438 Abatement Plan No. 131 Incident ID No. NBBB1219837368, NJK1201237146

> March 19, 2021 Ensolum Project No. 05A1226011

> > Prepared for:

Enterprise Field Services, LLC P.O. Box 4324 Houston, Texas 77210-4324 Attn: Mr. Gregory E. Miller, P.G.

Prepared by:

Ranee Deechilly Environmental Scientist

Landon Daniell Staff Geologist

un

Kyle Summers Senior Project Manager

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



2020 GROUNDWATER MONITORING REPORT EXECUTIVE SUMMARY

This report documents the 2020 groundwater monitoring activities at the Trunk 6C Kutz Wash pipeline release site, referred to hereinafter as the "Site".

The Site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way in the southwest (SW) quarter (1/4) of Section 26, Township 28 North, Range 11 West, in San Juan County, New Mexico.

On September 22, 2011, a pipeline release of natural gas and associated pipeline liquids was discovered at the Site and the pipeline was subsequently repaired. A Site assessment conducted by Animas Environmental Services, LLC (AES) during October 2011 identified benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total petroleum hydrocarbon (TPH) concentrations in "test hole" excavation soil and groundwater that exceeded the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria for soils and above the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) for groundwater.

During November 2011, AES advanced eight (8) soil borings at the Site to further delineate the extent of hydrocarbon affected soil and potentially impacted groundwater. Resulting soil and groundwater analytical data indicated constituent of concern (COC) concentrations above the New Mexico EMNRD OCD closure criteria and WQCC GQSs.

During September 2012, AES advanced nine (9) additional soil borings/monitoring wells at the Site to further evaluate the extent of dissolved phase COCs in groundwater. Based on laboratory analytical results, COCs were not identified in soil above the New Mexico EMNRD OCD closure criteria. However, COCs were identified in groundwater above the WQCC GQSs. On October 16, 2013, four (4) additional soil borings/monitoring wells were advanced by AES. Soil and groundwater samples collected from soil boring/monitoring well MW-10 exhibited COC concentrations above the New Mexico EMNRD OCD closure criteria and WQCC GQSs.

On October 28, 2013, another leak was discovered in the vicinity of the original release and the pipeline was subsequently repaired and placed back in service. AES collected 20 discrete soils samples from the pipeline repair excavation and the resulting analytical data identified COC concentrations above the New Mexico EMNRD OCD closure criteria. In addition, aquifer pumping tests were conducted in four (4) wells by AES to estimate hydraulic conductivity. The estimated average hydraulic conductivity values of 5.27E-03 centimeters per second (cm/sec) and 8.81E-03 cm/sec were determined from drawdown and recovery data analysis, respectively.

During September 2016, Apex TITAN, Inc., (Apex) advanced five (5) soil borings at the Site. Three (3) of these soil borings were completed as groundwater monitoring wells. COCs were identified in soil above the New Mexico EMNRD OCD closure criteria at soil borings/monitoring wells MW-15 (capillary fringe), MW-17, and SB-18A (capillary fringe). In addition, COC concentrations were identified in groundwater above the WQCC GQSs in monitoring well MW-17.

During February 2019, Enterprise assigned management of the project to Ensolum, LLC (Ensolum).

On May 23, 2019, Enterprise submitted a Revised Stage 1 Abatement Plan for this Site to the New Mexico EMNRD OCD. The New Mexico EMNRD OCD has not responded or approved the plan at this time, and Enterprise has resumed semi-annual groundwater monitoring of the Site.

In a letter to the New Mexico EMNRD OCD dated April 21, 2020, Enterprise requested the plugging and abandonment or the suspension of sampling of the following wells: MW-3, MW-5, MW-7, MW-9, MW-12, and MW-13.

Groundwater sampling events were conducted by Ensolum during June 2020 and November 2020. These groundwater monitoring events were performed to further evaluate the concentrations of COCs in groundwater over time and to monitor the generally declining COC concentrations at the Site.

Findings based on these activities are as follows:

- The groundwater flow direction at the Site is generally towards the northwest, with an approximate average gradient of 0.008 feet per foot (ft/ft) across the Site.
- Benzene was reported at concentrations exceeding the New Mexico WQCC GQS of 10 microgram per liter (µg/L) in ground water samples collected from monitoring well MW-1 during the June 2020 and November 2020 sampling events and monitoring MW-17 during the June 2020 sampling event. The groundwater samples collected from the remaining monitoring wells during the two 2020 sampling events do not exhibit COC concentrations above the applicable WQCC GQSs (see footnote in report).
- The results from the 2020 groundwater sampling events at the Site generally continue to demonstrate declining or stable COC concentrations in groundwater.

Ensolum offers the following recommendations:

- Report the groundwater monitoring results to the New Mexico EMNRD OCD.
- Continue semi-annual groundwater monitoring at the Site.
- Once approved by the New Mexico EMNRD OCD, implement additional Site-specific aquifer testing as described in the Stage 1 Abatement Plan.
- After the Stage 1 Abatement Plan has been fully implemented, prepare a Stage 2 Abatement Plan, or proceed "at-risk" with the removal of residual impacted soils to expedite natural attenuation prior to EMNRD OCD approval of the Stage 1 Abatement Plan.
- Determine if the New Mexico EMNRD OCD will allow the suspension or reduction of sampling frequency for monitoring wells MW-3, MW-5, MW-7, MW-9, MW-12, and MW-13, due to the documented history of COC non-detections.

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2020 GROUNDWATER MONITORING REPORT

New Mexico EMNRD OCD RP No. 3RP-438 Abatement Plan No. 131

Ensolum Project No. 05A1226011

1.0 INTRODUCTION

This report documents the 2020 groundwater monitoring activities at the Trunk 6C Kutz Wash Pipeline Release site, referred to hereinafter as the "Site".

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Trunk 6C Kutz Wash Pipeline Release
Incident ID	NBBB1219837368, NJK1201237146
Location:	36.63202° North, 107.97400° West Southwest (SW) ¼ of Section 26, Township 28 North, Range 11 West San Juan County, New Mexico
Property:	United States Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On September 22, 2011, a pipeline release of an unknown volume of natural gas and associated liquids was discovered at the Site and the pipeline was subsequently repaired. Animas Environmental Services, LLC (AES) collected one (1) soil sample from the floor of the repair excavation. Based on field screening results, the soil sample exhibited elevated levels of volatile organic compounds (VOCs). A site assessment was conducted by AES on October 11, 2011, which included the collection of soil samples from four (4) test holes (TP-1 through TP-4) that were advanced near the release area, as well as groundwater samples from two (2) of the four (4) test holes. Based on laboratory analytical results, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total petroleum hydrocarbons (TPH) were identified in soils from two (2) of the test holes (TP-1 and TP-2) at concentrations above the New Mexico EMNRD OCD closure criteria. The test hole water samples collected from TP-2 and TP-4 exhibited concentrations of BTEX above New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs). Additional details regarding the initial site assessment activities are provided in the *Release Assessment Report, dated October 28, 2011- AES.*

During November 2011, AES advanced eight (8) soil borings (SB-1 through SB-8) at the Site to further delineate the extent of hydrocarbon affected soil and impacted groundwater. Laboratory analytical results for the soil and groundwater samples collected from the soil borings identified constituent of concern (COC) concentrations in soil above the New Mexico EMNRD OCD closure criteria (SB-2, SB-7, and SB-8) and in groundwater above the WQCC GQSs (SB-2W, SB-3W, and SB-7W) (*Site Investigation Report, dated February 20, 2012 – AES*).

During September 2012, nine (9) additional soil borings were advanced at the Site by AES to further evaluate the extent of dissolved phase COCs in groundwater. Subsequent to advancement, the soil borings were completed as groundwater monitoring wells (MW-1 through MW-9). Laboratory analytical results for soil samples did not indicate concentrations of COCs above the New Mexico EMNRD OCD closure criteria. However, COCs were confirmed in groundwater above the WQCC GQSs (*Groundwater Investigation*

2020 Groundwater Monitoring Report Enterprise Field Services, LLC Trunk 6C Kutz Wash Pipeline Release March 19, 2021



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Report, dated October 31, 2012 – AES).

On October 16, 2013, AES advanced four (4) additional soil borings/monitoring wells (MW-10 through MW-13) to further evaluate the extent of COCs in groundwater. Laboratory analytical results indicated COC concentrations in soil and groundwater from soil boring/monitoring well MW-10 were present at levels above the New Mexico EMNRD OCD closure criteria and the WQCC GQSs (3rd Quarter 2013 Groundwater Monitoring and Well Installation Report, dated December 10, 2013 and 4th Quarter 2013 Groundwater Monitoring and Continued Investigation Report, dated July 23, 2014 – AES).

During September 2016, Enterprise retained Apex TITAN, Inc., (Apex) to perform environmental site investigation activities at the Site to further evaluate and delineate the concentrations of COCs in soil and groundwater. Five (5) soil borings were advanced and three (3) of the soil borings were completed as groundwater monitoring wells MW-14, MW-15, and MW-17. Laboratory analytical results indicated COC concentrations in soil (MW-15 (capillary fringe), MW-17, and SB-18A (capillary fringe)) and groundwater (MW-17) were above the New Mexico EMNRD OCD closure criteria and the WQCC GQSs (*Supplemental Environmental Site Investigation (September 2016) and Annual Groundwater Monitoring Report (June and December 2016), dated February 13, 2017 – Apex).*

During February 2019, Enterprise assigned management of the project to Ensolum, LLC (Ensolum).

On May 23, 2019, Enterprise submitted a Revised Stage 1 Abatement Plan for this Site to the New Mexico EMNRD OCD. The plan proposed that semi-annual groundwater monitoring continue, and that additional Site-specific aquifer testing be implemented prior to the submittal of a Stage 2 Abatement Plan. The New Mexico EMNRD OCD has not responded or approved the plan at this time, and Enterprise has resumed semi-annual groundwater monitoring of the Site.

In a letter to the New Mexico EMNRD OCD dated April 21, 2020, Enterprise requested the plugging and abandonment or the suspension of sampling of the following wells: MW-3, MW-5, MW-7, MW-9, MW-12, and MW-13. This request was based on COC concentrations reported below detection limits since 2013 (or since 2015 for MW-3) and the COC plume is currently delineated by monitoring wells MW-2, MW-4, MW-6, and MW-11 (*Supplemental 2018 Annual Groundwater Monitoring Report Cover Letter, dated April 21, 2020 – Enterprise*).

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites that are subject to reporting and/or corrective action. Additionally, the New Mexico EMNRD OCD utilizes the New Mexico WQCC GQS (NMAC 20.6.2 *Groundwater and Surface Water Protection*) to evaluate groundwater conditions.¹

The Site location is depicted on **Figure 1** of **Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, is provided as **Figure 2**, and a **Site Map**, which indicates the approximate locations of the monitoring wells and previous soil boring locations in relation to pertinent structures and general Site boundaries, is included as **Figure 3** of **Appendix A**.

1.2 **Project Objective**

The objective of the groundwater monitoring events was to further evaluate the concentrations of COCs in groundwater over time and monitor the generally declining COC concentrations at the Site.

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.





2.0 GROUNDWATER MONITORING

2.1 Groundwater Sampling Program

Groundwater sampling events were conducted during June 2020 and November 2020 by Ensolum. The groundwater sampling program consisted of the collection of one (1) groundwater sample from each of the 15 viable monitoring wells at the Site. Monitoring well MW-12 was not sampled during either sampling event due to an obstructed well screen/casing.

Ensolum's 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 viable two (2) inch diameter monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, one (1) groundwater sample was collected from each monitoring well.
- Low-flow or low-stress sampling refer 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, groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are typically observed every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for at least three consecutive readings.
- The casings of monitoring wells MW-10, MW-11, and MW-13 are approximately one (1) inch in diameter, which is smaller than the bladder pump diameter. As a result, these monitoring wells were purged utilizing a disposable bailer until effectively dry. Following the completion of the purging process and the recovery of groundwater to static levels, one (1) groundwater sample was collected from each monitoring well.
- The groundwater samples were collected in laboratory-supplied containers (pre-preserved with mercuric chloride (HgCl₂)), labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico under proper chain-of-custody procedures.

2.2 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during these groundwater sampling events were analyzed for BTEX utilizing United States Environmental Protection Agency (EPA) SW-846 Method #8021/8260.

A summary of the per-event analytes, sample matrix, sample frequency and EPA-approved methods for the two (2) sampling events are presented on the following table.



Analytes	Sample Matrix	No. of Samples (per event)	EPA Method
BTEX	Groundwater	15	SW-846 8021/8260

The laboratory analytical results are summarized in **Table 1** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix C**.

2.3 Groundwater Flow Direction

Each monitoring well has been geospatially surveyed to determine the top-of-casing (TOC) elevation. Based on gauging data, the groundwater flow direction at the Site is generally toward the northwest. The calculated gradient during both the June 2020 and November 2020 monitoring events averaged approximately 0.008 feet per foot (ft/ft) across the Site.

Groundwater elevation data collected during the June 2020 and November 2020 gauging events (as well as historical gauging data) are presented in **Table 2** (**Appendix B**). Groundwater gradient maps for the June 2020 and November 2020 gauging events are included as **Figure 4A** and **4B** (**Appendix A**).

2.4 Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the groundwater samples collected during the June 2020 and November 2020 sampling events to the New Mexico WQCC GQSs.¹ The results of the groundwater sample analyses are summarized in **Table 1** of **Appendix B**. Groundwater Quality Standard Exceedance Zone maps are provided as **Figures 5A** and **5B** of **Appendix A**.

Monitoring well MW-12 was not sampled during these sampling events due to an obstructed well screen/casing.

<u>June 2020</u>

The June 2020 analytical results for monitoring wells MW-1 and MW-17 indicate benzene concentrations of 1,400 micrograms per liter (μ g/L) and 17 μ g/L, respectively, which exceed the WQCC GQS of 10 μ g/L.¹ The analytical results for the remaining monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 10 μ g/L.¹

The June 2020 analytical result for monitoring well MW-1 indicates a toluene concentration of 740 μ g/L, which is below the WQCC GQS of 750 μ g/L.¹ The analytical results for the remaining monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μ g/L.¹

The June 2020 analytical results for monitoring wells MW-1, MW-6, and MW-15 indicate ethylbenzene concentrations of 95 μ g/L, 5.1 μ g/L, and 4.7 μ g/L, respectively, which are below the WQCC GQS of 750 μ g/L.¹ The analytical results for the remaining monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μ g/L.¹

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.



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The June 2020 analytical results for monitoring wells MW-1, MW-8, and MW-15 indicate total xylenes concentrations of 270 μ g/L, 1.9 μ g/L, and 49 μ g/L, respectively, which are below the WQCC GQS of 620 μ g/L.¹ The analytical results for the remaining monitoring wells do not indicate total xylenes concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 μ g/L.¹

No data qualifier flags are associated with the June 2020 analytical results.

November 2020

The November 2020 analytical result for monitoring well MW-1 indicates a benzene concentration of 730 μ g/L, which exceeds the WQCC GQS of 10 μ g/L.¹ The analytical result for monitoring well MW-17 indicates a benzene concentration of 8.7 μ g/L, which is below the WQCC GQS of 10 μ g/L.¹ The analytical results for the remaining monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 10 μ g/L.¹

The November 2020 analytical result for monitoring well MW-1 indicates a toluene concentration of 290 μ g/L, which is below the WQCC GQS of 750 μ g/L.¹ The analytical results for the remaining monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μ g/L.¹

The November 2020 analytical result for monitoring well MW-1 indicates an ethylbenzene concentration of 61 μ g/L, which is below the WQCC GQS of 750 μ g/L.¹ The analytical results for the remaining monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μ g/L.¹

The November 2020 analytical results for monitoring wells MW-1 and MW-15 indicate total xylenes concentrations of 180 μ g/L and 15 μ g/L, respectively, which are below the WQCC GQS of 620 μ g/L.¹ The analytical results for the remaining monitoring wells do not indicate total xylenes concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 μ g/L.¹

No data qualifier flags are associated with the November 2020 analytical results.

3.0 FINDINGS

Based on the evaluation of the analytical results from the 2020 groundwater monitoring events, Ensolum presents the following findings:

- The groundwater flow direction at the Site is generally towards the northwest, with an approximate gradient of 0.008 ft/ft across the Site.
- Benzene was reported at concentrations exceeding the New Mexico WQCC GQS of 10 μg/L in ground water samples collected from monitoring well MW-1 during the June 2020 and November 2020 sampling events and monitoring MW-17 during the June 2020 sampling event. The groundwater samples collected from the remaining monitoring during the two 2020 sampling events did not exhibit COC concentrations above the applicable WQCC GQSs.¹
- The results from the 2020 groundwater sampling events at the Site generally continue to demonstrate declining or stable COC concentrations in groundwater.

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

March 19, 2021





4.0 **RECOMMENDATIONS**

Trunk 6C Kutz Wash Pipeline Release

Based on these findings, Ensolum recommends the following:

- Report the groundwater monitoring results to the New Mexico EMNRD OCD.
- Continue semi-annual groundwater monitoring at the Site.
- Once approved by the New Mexico EMNRD OCD, implement additional Site-specific aquifer testing as described in the Stage 1 Abatement Plan.
- After the Stage 1 Abatement Plan has been fully implemented, prepare a Stage 2 Abatement Plan, or proceed "at-risk" with the removal of residual impacted soils to expedite natural attenuation prior to EMNRD OCD approval of the Stage 1 Abatement Plan.
- Determine if the New Mexico EMNRD OCD will approve the suspension or reduction of sampling frequency for monitoring wells MW-3, MW-5, MW-7, MW-9, MW-12, and MW-13, due to the documented history of COC non-detections.

5.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

5.1 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). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

5.2 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 recommendations are based solely upon data available to Ensolum at the time of these services.

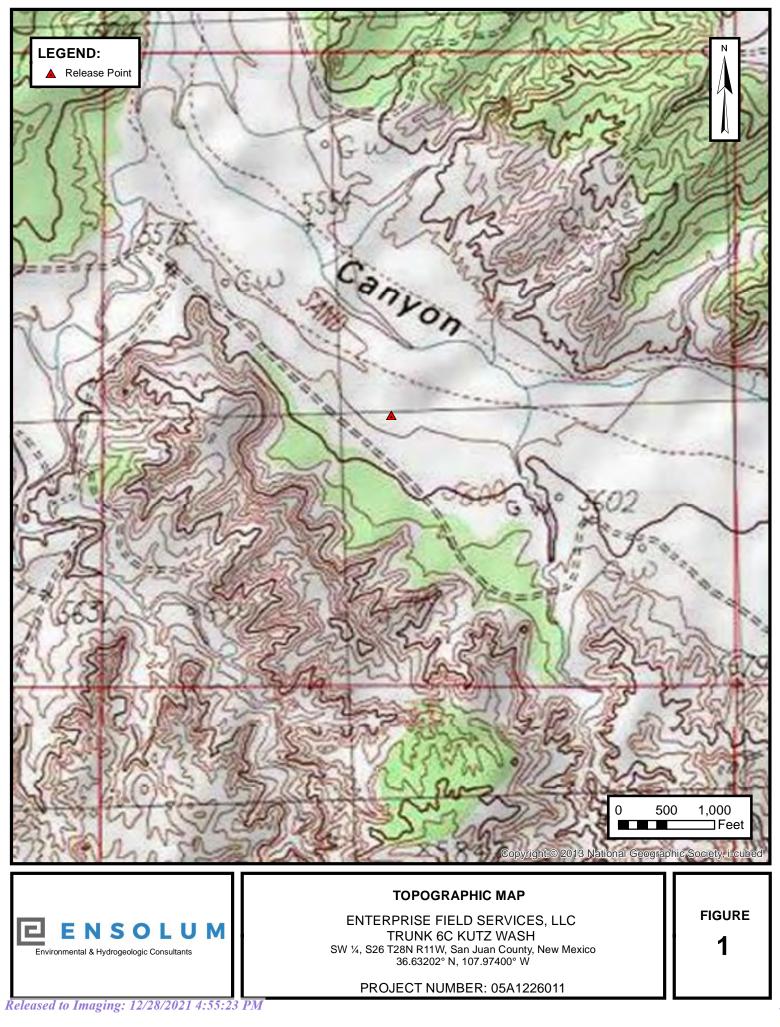
5.3 Reliance

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 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.

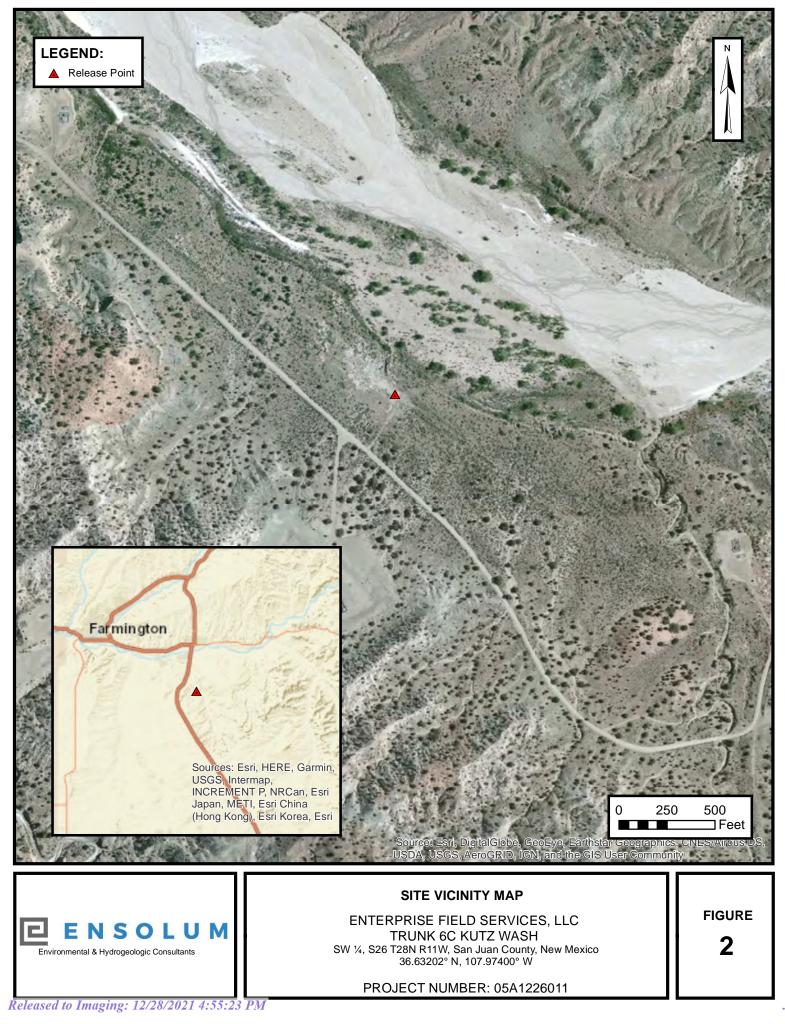


APPENDIX A

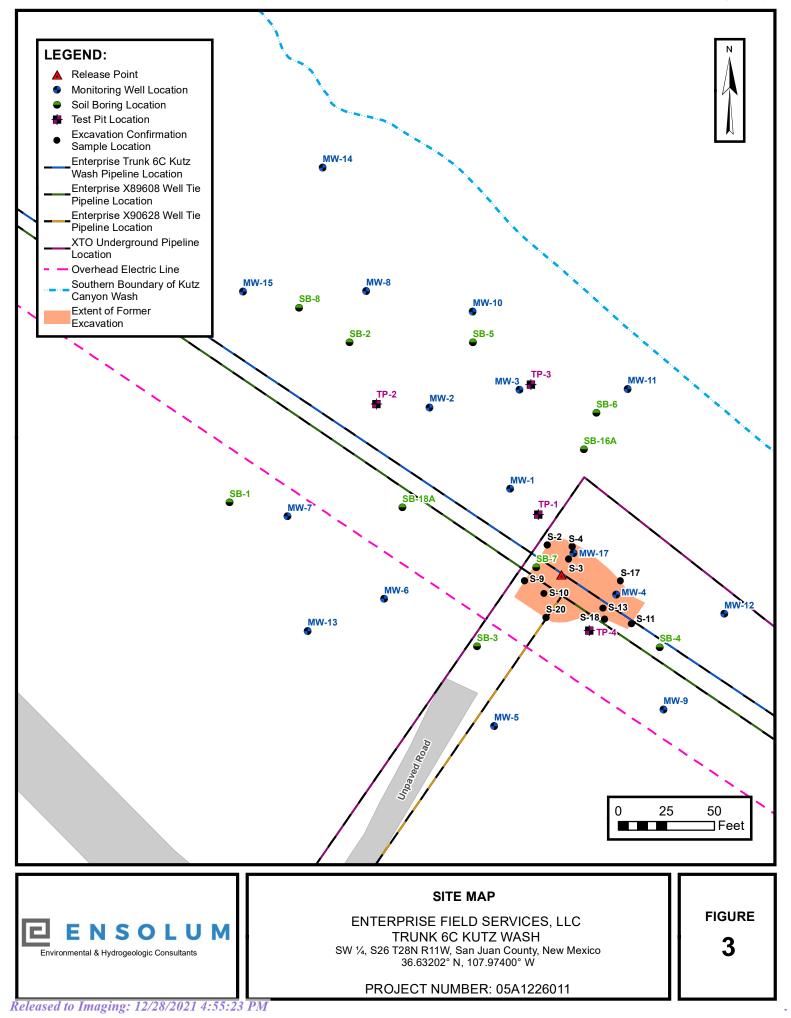
Figures

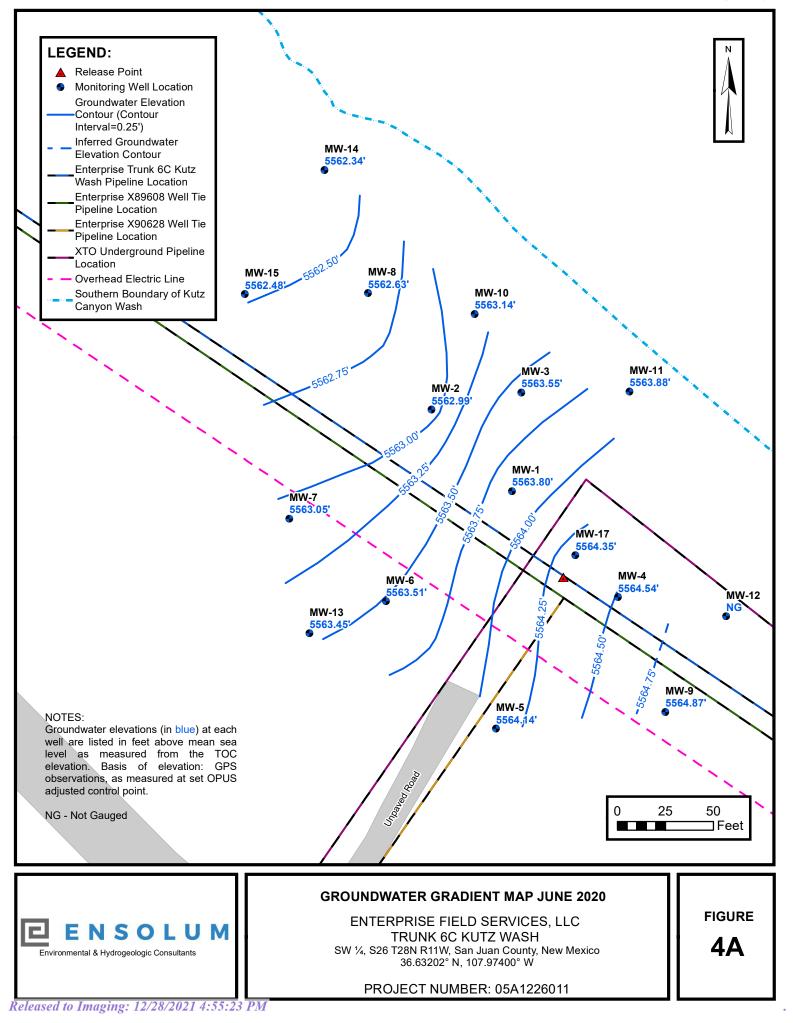


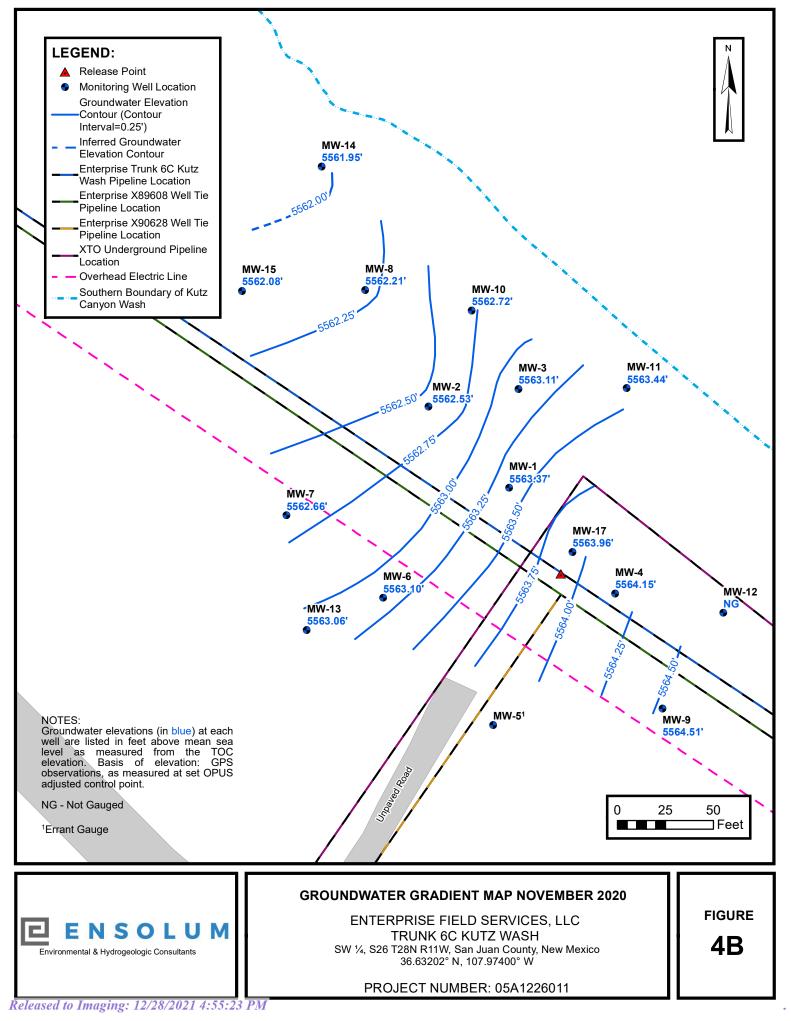
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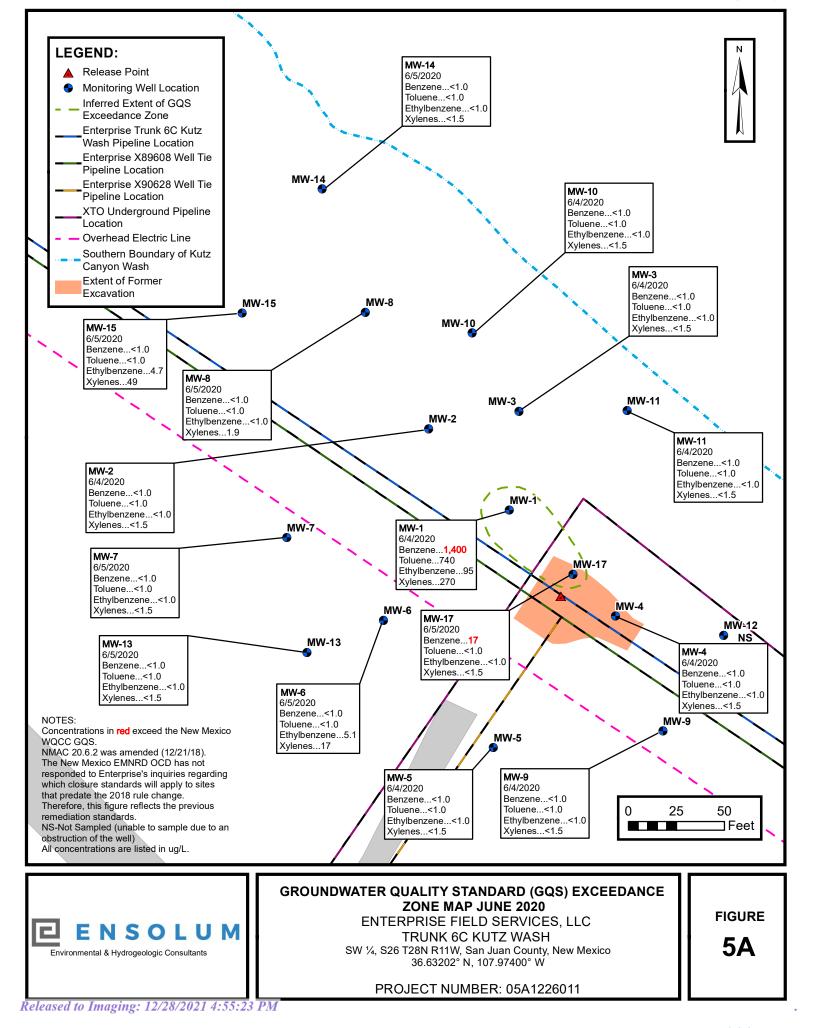


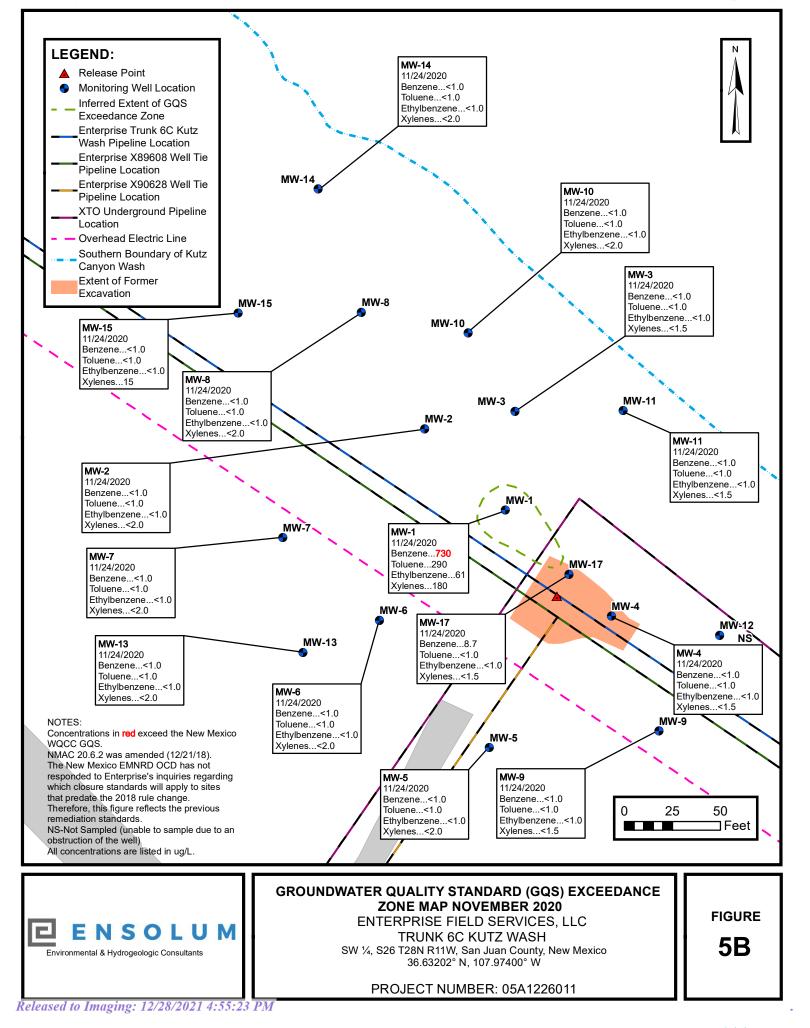
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APPENDIX B

Tables

TABLE 1 Trunk 6C Kutz Wash Pipeline Release							
		JNDWATER ANALYTI					
Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)		
	ew Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ^A	750 ^A	620 ^A		
	9.7.12	2,200	350	68	650		
	12.20.12 3.20.13	1,100 NAPL	250 NAPL	37 NAPL	180 NAPL		
	6.19.13	NAPL	NAPL	NAPL	NAPL		
	9.17.13	NAPL	NAPL	NAPL	NAPL		
	12.16.13	NAPL	NAPL	NAPL	NAPL		
	3.14.15	NAPL	NAPL	NAPL	NAPL		
	9.9.15	1,900	440	54 170	400 1,400		
	6.15.15 12.7.15	6,900 3,900	2,700 1,400	120	870		
MW-1	6.02.16	1,400	850	41	330		
	12.20.16	76	59	2.5	23		
	6.28.17	3,500	4,200	180	1,800		
	1.10.18	1,300	710	59 140	350 740		
	6.22.18 12.14.18	3,800 590	2,400 400	33	99		
	8.21.19	800	510	46	150		
	1.13.20	940	540	61	190		
	6.4.20	1,400	740	95	270		
	11.24.20	730	290	61	180		
	9.7.12	270	1,100	66	1,800		
	12.20.12 3.20.13	<mark>26</mark> <5.0	49 <5.0	5.1 <5.0	250 67		
	6.19.13	<5.0 NAPL	NAPL	<5.0	NAPL		
	9.17.13	NAPL	NAPL	NAPL	NAPL		
	12.16.13	NAPL	NAPL	NAPL	NAPL		
	3.14.14	1,200	1,600	74	660		
	9.9.14	78	76	2.9	110		
	6.15.15	<1.0 <1.0	1.1 <1.0	<1.0 <1.0	<u>44</u> 13		
MW-2	12.7.15 6.02.16	<1.0	<1.0	<1.0	<2.0		
	12.19.16	<1.0	<1.0	<1.0	<1.5		
	6.27.17	<1.0	<1.0	<1.0	<2.0		
	1.09.18	<1.0	<1.0	<1.0	<2.0		
	6.21.18	<1.0	<1.0	<1.0	<1.5		
	12.14.18 8.21.19	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0		
	1.10.20	<1.0	<1.0	<1.0	<2.0		
	6.4.20	<1.0	<1.0	<1.0	<1.5		
	11.24.20	<1.0	<1.0	<1.0	<2.0		
	9.7.12	<2.0	<2.0	<2.0	<4.0		
	12.20.12	<2.0	<2.0	<2.0	<4.0		
	3.20.13	<2.0 780	<2.0	<2.0	<u><4.0</u> 15		
	6.19.13 9.18.13	150	130 28	2.5 <5.0	15		
	12.16.13	660	340	16	130		
	3.14.14	200	86	4.0	49		
	9.9.14	2.5	1.7	<1.0	3.3		
	6.12.15	1.3	<1.0	<1.0	2.2		
MW-3	12.7.15 6.02.16	<1.0 <1.0	<1.0	<1.0 <1.0	<2.0 <2.0		
	12.19.16	<1.0	<1.0 <1.0	<1.0	<2.0		
	6.28.17	<1.0	<1.0	<1.0	<2.0		
				<1.0	<2.0		
	1.09.18	<1.0	<1.0	NI.0			
	1.09.18 6.21.18	<1.0	<1.0	<1.0	<1.5		
	1.09.18 6.21.18 12.14.18	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <2.0		
	1.09.18 6.21.18 12.14.18 8.21.19	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<1.5 <2.0 <2.0		
	1.09.18 6.21.18 12.14.18	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <2.0		

TABLE 1 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ANALYTICAL SUMMARY						
Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (µg/L)	
	New Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ^A	750 ^A	620 ^A	
	9.7.12	18	5.1	<2.0	<4.0	
	12.20.12	<2.0	<2.0	<2.0	<4.0	
	3.20.13 6.19.13	<u>290</u> 600	110 45	<2.0 <10	15 <20	
	9.18.13	830	39	<10	<20	
	12.16.13	300	110	10	63	
	3.14.14	4.0	<1.0	<1.0	<3.0	
	9.9.14	<2.0	<2.0	<2.0	<4.0	
	6.11.15	<1.0	<1.0	<1.0	<2.0	
MW-4	12.4.15	<1.0	<1.0	<1.0	<2.0	
	6.02.16	<1.0	<1.0	<1.0	<2.0	
	12.19.16	<1.0	<1.0	<1.0	<1.5	
	6.28.17 1.09.18	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	
	6.21.18	<1.0	<1.0	<1.0	<2.0	
	12.13.18	<1.0	<1.0	<1.0	<2.0	
	8.22.19	<1.0	<1.0	<1.0	<2.0	
	1.10.20	<1.0	<1.0	<1.0	<2.0	
	6.4.20	<1.0	<1.0	<1.0	<1.5	
	11.24.20	<1.0	<1.0	<1.0	<1.5	
	9.7.12	<2.0	<2.0	<2.0	<4.0	
	12.20.12	<2.0	<2.0	<2.0	<4.0	
	3.20.13 6.19.13	<2.0 <1.0	<2.0 <1.0	<2.0 <1.0	<4.0 <2.0	
	9.17.13	<1.0	<1.0	<1.0	<2.0	
	12.16.13	2.1	4.7	4.0	17	
	3.14.14	<1.0	<1.0	<1.0	<3.0	
	9.9.14	<1.0	<1.0	<1.0	<2.0	
	6.12.15	<1.0	<1.0	<1.0	<2.0	
MW-5	12.4.15	<1.0	<1.0	<1.0	<2.0	
	6.02.16	<1.0	<1.0	<1.0	<2.0	
	12.19.16	<1.0	<1.0	<1.0	<1.5	
	6.27.17 1.09.18	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	
	6.21.18	<1.0	<1.0	<1.0	<2.0	
	12.13.18	<1.0	<1.0	<1.0	<2.0	
	8.22.19	<1.0	<1.0	<1.0	<2.0	
	1.10.20	<1.0	<1.0	<1.0	<2.0	
	6.4.20	<1.0	<1.0	<1.0	<1.5	
	11.24.20	<1.0	<1.0	<1.0	<2.0	
	9.7.12	<5.0	<5.0	260	2,200	
	12.20.12 3.20.13	<5.0 <5.0	<5.0	180 120	1,200	
	3.20.13 6.19.13	<u><5.0</u> 9.6	<5.0 6.2	120	800 1,100	
	9.18.13	<5.0	<5.0	180	1,200	
	12.16.13	<5.0	<5.0	140	990	
	3.14.14	<1.0	<1.0	150	990	
	9.9.14	<5.0	<5.0	49	400	
	6.12.15	<5.0	<5.0	89	590	
MW-6	12.4.15	<2.5	<5.0	41	210	
	6.02.16	<1.0	<1.0	16	70	
	12.19.16 6.27.17	<1.0 <1.0	<1.0 <1.0	26 <1.0	80 <2.0	
	1.09.18	<1.0	<1.0	3.6	< <u>2.0</u> 12	
	6.21.18	<1.0	<1.0	2.1	5.9	
	12.13.18	<1.0	<1.0	2.7	9.8	
	8.22.19	<1.0	<1.0	<1.0	<2.0	
	1.10.20	<1.0	<1.0	<1.0	<2.0	
	6.5.20	<1.0	<1.0	5.1	17	
	11.24.20	<1.0	<1.0	<1.0	<2.0	

TABLE 1 Trunk 6C Kutz Wash Pipeline Release						
		NDWATER ANALYTI				
Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (µg/L)	
	lew Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ^A	750 ^A	620 ^A	
	9.7.12	<2.0	<2.0	<2.0	<4.0	
	12.20.12	<2.0	<2.0	<2.0	2.4	
	3.20.13 6.19.13	<2.0 <1.0	<2.0 <1.0	<2.0 <1.0	<4.0 <2.0	
	9.17.13	<1.0	<1.0	<1.0	<1.5	
	12.16.13	1.6	3.9	3.6	16	
	3.14.14	<1.0	<1.0	<1.0	<3.0	
	9.9.14	<1.0	<1.0	<1.0	<2.0	
	6.12.15	<1.0	<1.0	<1.0	<2.0	
MW-7	12.7.15	<1.0	<1.0	<1.0	<2.0	
10100-7	6.02.16	<1.0	<1.0	<1.0	<2.0	
	12.19.16	<1.0	<1.0	<1.0	<1.5	
	6.27.17	<1.0	<1.0	<1.0	<2.0	
	1.09.18	<1.0	<1.0	<1.0	<2.0	
	6.21.18 12.13.18	<1.0	<1.0	<1.0	<1.5	
	12.13.18 8.21.19	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	
	1.10.20	<1.0	<1.0	<1.0	<2.0	
	6.5.20	<1.0	<1.0	<1.0	<1.5	
	11.24.20	<1.0	<1.0	<1.0	<2.0	
	9.7.12	41	40	3.8	320	
	12.20.12	<2.0	<2.0	<2.0	20	
	3.20.13	41	36	<2.0	89	
	6.19.13	21	12	<1.0	6.8	
	9.18.13	<1.0	<1.0	3.4	27	
	12.16.13	18	21	5.1	74	
	3.14.14	66	190	10	210	
	9.9.14	NAPL**	NAPL**	NAPL**	NAPL**	
	6.15.15	<1.0	<1.0	<1.0	10	
MW-8	12.7.15	1.3	<1.0	<1.0	53	
	6.02.16 12.19.16	4.0 <1.0	1.6 <1.0	<1.0 <1.0	5.1 2.1	
	6.27.17	<1.0	<1.0	<1.0	<2.0	
	1.09.18	<1.0	<1.0	<1.0	<2.0	
	6.21.18	<1.0	<1.0	<1.0	<1.5	
	12.14.18	<1.0	<1.0	<1.0	<2.0	
	8.21.19	<1.0	<1.0	<1.0	<2.0	
	1.10.20	<1.0	<1.0	<1.0	<2.0	
	6.5.20	<1.0	<1.0	<1.0	1.9	
	11.24.20	<1.0	<1.0	<1.0	<2.0	
	9.7.12	<2.0	2.4	<2.0	<4.0	
	12.20.12	<2.0	<2.0	<2.0	<4.0	
	3.20.13	<2.0	<2.0	<2.0	<4.0	
	6.19.13	<1.0	<1.0	<1.0	<2.0	
	9.17.13	<1.0 1.5	<1.0	<1.0 2.9	<1.5 12	
	12.16.13 3.14.14	<1.0	3.5 <1.0	<1.0	<3.0	
	9.9.14	<2.0	<2.0	<2.0	<4.0	
	6.11.15	<1.0	<1.0	<1.0	<2.0	
1010	12.4.15	<1.0	<1.0	<1.0	<2.0	
MW-9	6.02.16	<1.0	<1.0	<1.0	<2.0	
	12.19.16	<1.0	<1.0	<1.0	<1.5	
	6.27.17	<1.0	<1.0	<1.0	<2.0	
	1.09.18	<1.0	<1.0	<1.0	<2.0	
	6.21.18	<1.0	<1.0	<1.0	<1.5	
	12.13.18	<1.0	<1.0	<1.0	<2.0	
	8.22.19	<1.0	<1.0	<1.0	<2.0	
	1.10.20	<1.0	<1.0	<1.0	<2.0	
	6.4.20	<1.0	<1.0	<1.0	<1.5	
1	11.24.20	<1.0	<1.0	<1.0	<1.5	

TABLE 1 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ANALYTICAL SUMMARY						
Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	
	ew Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ^A	750 ^A	620 ^A	
	12.16.13	950	34	12	39	
	3.14.14	560	4.0	16	27	
	9.9.14	580	<10	34	<20	
	6.15.15	75	<1.0	12	2.9	
	12.7.15	<u> </u>	<1.0	2.0	<2.0	
	6.03.16 12.20.16	4.8	<1.0 <1.0	<1.0 <1.0	<2.0 <1.5	
MW-10	6.27.17	3.4	<1.0	<1.0	<2.0	
10100-10	1.10.18	<1.0	<1.0	<1.0	<2.0	
	6.22.18	5.0	<1.0	<1.0	2.7	
	12.14.18	<1.0	<1.0	<1.0	<2.0	
	8.22.19	<1.0	<1.0	<1.0	<2.0	
	1.13.20	<1.0	<1.0	<1.0	<2.0	
	6.4.20	<1.0	<1.0	<1.0	<1.5	
	11.24.20	<1.0	<1.0	<1.0	<2.0	
	12.16.13	2.6	3.5	<1.0	6	
	3.14.14	<1.0	<1.0	<1.0	<3.0	
	9.9.14	<2.0	<2.0	<2.0	<4.0	
	6.12.15	<1.0	<1.0	<1.0	<2.0	
	12.4.15	<1.0	<1.0	<1.0	<2.0	
	6.03.16	<1.0	<1.0	<1.0	<2.0	
	12.20.16	<1.0	<1.0	<1.0	<1.5	
MW-11	6.28.17		Insufficient volume of	f water to sample.		
	1.10.18	<1.0	<1.0	<1.0	<1.5	
	6.22.18	<1.0	<1.0	<1.0	<1.5	
	12.14.18	<1.0	<1.0	<1.0	<2.0	
	8.22.19	<1.0	<1.0	<1.0	<2.0	
	1.14.20	<1.0	<1.0	<1.0	<2.0	
	6.4.20	<1.0	<1.0	<1.0	<1.5	
	11.24.20	<1.0	<1.0	<1.0	<1.5	
	12.16.13	3.3	3.8	<1.0	6	
	<u>3.14.14</u> 9.9.14	<1.0 <2.0	<1.0 <2.0	<1.0 <2.0	<3.0 <4.0	
	6.12.15	N2.0	Casing Ob		< 4.0	
	12.4.15		Casing Ob Casing Ob			
	6.02.16		Casing Ob			
	12.20.16		Casing Ob			
MW-12	6.27.17		Casing Ob			
	1.10.18		Casing Ob			
	6.21.18		Casing Ob			
	12.13.18		Casing Ob	struction		
	8.22.19		Casing Ob			
	1.10.20		Casing Ob			
	6.4.20		Casing Ob			
	11.24.20		Casing Ob	struction		
	12.16.13	4.4	5.1	1.2	8	
	3.14.14	<1.0	<1.0	<1.0	<3.0	
	9.9.14	<2.0	<2.0	<2.0	<4.0	
	6.15.15	<1.0	<1.0	<1.0	<2.0	
	12.4.15	<1.0	<1.0	<1.0	<2.0	
	6.03.16	<1.0	<1.0	<1.0	<2.0	
NNA/ 40	12.20.16	<1.0	<1.0	<1.0	<1.5	
MW-13	6.27.17	<1.0	<1.0	<1.0	<2.0	
	1.10.18	<1.0	<1.0	<1.0	<2.0	
	6.22.18	<1.0 <1.0	<1.0	<1.0 <1.0	<1.5 <2.0	
	12.14.18 8.22.19	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0	
	1.14.20	<1.0	<1.0	<1.0	<2.0	
	6.5.20	<1.0	<1.0	<1.0	<1.5	
	11.24.20	<1.0	<1.0	<1.0	<2.0	

TABLE 1 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ANALYTICAL SUMMARY							
Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)		
	ntrol Commmission Groundwater Standards	10 ^A	750 ^A	750 ^A	620 ^A		
	9.16.16 12.20.16	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <1.5		
	6.27.17 1.10.18	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<2.0 <2.0		
MW-14	6.22.18	<1.0	<1.0	<1.0	<1.5		
	12.13.18 8.21.19	2.7 <1.0	<1.0 <1.0	<1.0 <1.0	6.1 <2.0		
	1.13.20 6.5.20	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <1.5		
	<u>11.24.20</u> 9.16.16	<1.0 3.6	<1.0 <1.0	<1.0 4.1	<2.0 43		
	12.20.16 6.27.17	<1.0 4.1	<1.0 <1.0 <1.0	6.2 4.6	87 89		
	1.10.18	4.7	<1.0	2.8	33		
MW-15	6.21.18 12.13.18	6.5 1.2	<1.0 <1.0	2.6 <1.0	13 <2.0		
	8.21.19 1.13.20	<1.0 <1.0	<1.0 <1.0	<1.0 1.4	<2.0 23		
	6.5.20 11.24.20	<1.0 <1.0	<1.0 <1.0	4.7 <1.0	49 15		
	9.16.16	380	790	33	1,200		
	12.20.16 6.28.17	200 130	100 <5.0	11 <5.0	310 950		
MW-17	1.10.18 6.22.18	5.2 29	2.2 <1.0	1.2 2.4	13 <1.5		
	12.14.18 8.22.19	29 4.1	<1.0 <1.0	1.8 <1.0	<2.0 <2.0		
	1.13.20 6.5.20	2.2 17	<1.0 <1.0	<1.0 <1.0	<2.0 <1.5		
	11.24.20	8.7	<1.0	<1.0	<1.5		

Note: Concentrations in **bold** and yellow exceed the applicable WQCC GQS

^A = NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this table reflects the previous remediation standards.

 μ g/L = micrograms per liter

NAPL = Non-aqueous phase liquid

** - Field personnel recorded the presence of NAPL utilizing an interface probe, but the product was not visually verified.

<1.0 = the numeral (in this case "1.0") identifies the laboratory RL or PQL

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TABLE 2									
Trunk 6C Kutz Wash Pipeline Release									
			GROUN	DWATER ELEV	ATIONS				
Well I.D. Date Depth to Depth to Water Product Total Depth of							TOC Elevation	Groundwater	
		Product (feet BTOC)	(feet BTOC)	Thickness	Well (feet BTOC)	(feet BTOC)	(feet AMSL)	Elevation* (feet AMSL)	
	9.7.12 12.20.12	ND ND	15.78 15.69	ND ND				5563.95 5564.04	
	3.20.12	15.31	15.73	0.42				5564.31	
	6.19.13	15.49	15.75	0.26				5564.17	
	9.17.13 12.16.13	15.79 15.59	16.27 15.75	0.48			5579.73	5563.81 5564.10	
	3.14.14	15.35	15.36	0.10			5575.75	5564.38	
	9.9.14	15.98	15.99	0.01				5563.75	
	6.10.15 12.04.15	15.29 ND	15.30 15.81	0.01 ND				5564.44 5563.92	
MW-1*	6.02.16	ND	15.41	ND	27.43	12.43-27.43		5564.32	
	9.16.16	16.12	16.13	0.01				5563.31	
	12.19.16 6.27.17	ND ND	15.83 15.39	ND ND				5563.60 5564.04	
	1.09.18	ND	15.61	ND				5563.82	
	6.21.18	ND	15.65	ND	1		5579.43	5563.78	
	12.13.18 8.20.19	ND ND	15.89 16.02	ND ND			0010.40	5563.54 5563.41	
	1.07.20	ND	15.79	ND				5563.64	
	6.4.20	ND	15.63	ND	1			5563.80	
	11.24.20	ND	16.06	ND				5563.37	
	9.7.12 12.20.12	ND ND	16.29 16.22	ND ND				5563.10 5563.17	
	3.20.12	ND	15.97	ND			5579.39	5563.42	
	6.19.13	15.96	16.40	0.44				5563.31	
	9.17.13 12.16.13	16.40 16.14	16.54 16.22	0.14				5562.95 5563.23	
	3.14.14	ND	15.89	ND				5563.50	
	9.9.14	ND	16.50	ND	1			5562.89	
	6.10.15 12.04.15	ND ND	15.81 16.32	ND ND				5563.58 5563.07	
MW-2*	6.02.16	ND	15.93	ND	25.62	10.62-25.62		5563.46	
	9.16.16	ND	16.61	ND		10.02-20.02			5562.54
	12.19.16	ND	16.35	ND				5562.80	
	6.27.17 1.09.18	ND ND	15.95 16.13	ND ND				5563.20 5563.02	
	6.21.18	ND	16.19	ND			5579.15	5562.96	
	12.13.18	ND	16.45	ND			5579.15	5562.70	
	8.20.19 1.07.20	ND ND	16.52 16.35	ND ND				5562.63 5562.80	
	6.4.20	ND	16.16	ND				5562.99	
	11.24.20	ND	16.62	ND	l			5562.53	
	9.7.12 12.20.12	ND ND	15.98 15.79	ND ND				5563.54 5563.73	
	3.20.12	ND	15.79	ND	1			5564.02	
	6.19.13	ND	15.66	ND	1			5563.86	
	9.18.13	ND	15.96	ND			5579.52	5563.56	
	12.16.13 3.14.14	ND ND	15.70 15.39	ND ND			0019.02	5563.82 5564.13	
	9.9.14	ND	16.10	ND	1			5563.42	
	6.10.15	ND	15.28	ND	1			5564.24	
MW-3*	12.04.15 6.02.16	ND ND	15.87 15.47	ND ND	25.57	10.57-25.57		5563.65 5564.05	
	9.16.16	ND	16.24	ND				5563.00	
	12.19.16	ND	15.87	ND	1			5563.37	
	6.27.17 1.09.18	ND ND	15.45 15.65	ND ND	1			5563.79 5563.59	
	6.21.18	ND	15.76	ND	1		5570.04	5563.48	
	12.13.18	ND	15.97	ND			5579.24	5563.27	
	8.20.19 1.07.20	ND ND	16.14 15.85	ND ND	1			5563.10 5563.39	
	6.4.20	ND	15.69	ND	1			5563.55	
	11.24.20	ND	16.13	ND	<u> </u>			5563.11	

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				TABLE 2				
			Trunk 6C Ku					
				DWATER ELEV				
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	9.7.12	ND	15.59	ND				5564.77
	12.20.12 3.20.13	ND ND	15.51 15.25	ND ND				5564.85 5565.11
	6.19.13	ND	15.41	ND				5564.95
	9.18.13 12.16.13	ND ND	15.74 15.45	ND ND			5580.36	5564.62 5564.91
	3.14.14	ND	15.14	ND				5565.22
	9.9.14 6.10.15	ND ND	15.80 15.06	ND ND				5564.56 5565.30
	12.04.15	ND	15.56	ND				5564.80
MW-4*	6.02.16	ND	15.22	ND	25.26	10.26-25.26		5565.14
	9.16.16 12.19.16	ND ND	15.92 15.55	ND ND				5564.03 5564.40
	6.27.17	ND	15.22	ND				5564.73
	1.09.18 6.21.18	ND ND	15.34 15.45	ND ND				5564.61 5564.50
	12.13.18	ND	15.60	ND			5579.95	5564.35
	8.20.19 1.07.20	ND ND	15.80 15.50	ND ND				5564.15 5564.45
	6.4.20	ND	15.41	ND				5564.54
	11.24.20	ND	15.80	ND				5564.15
	9.7.12 12.20.12	ND ND	19.35 19.28	ND ND				5564.18 5564.25
	3.20.12	ND	19.10	ND				5564.43
	6.19.13	ND	19.21	ND				5564.32
	9.17.13 12.16.13	ND ND	19.55 19.28	ND ND			5583.53	5563.98 5564.25
	3.14.14	ND	19.03	ND				5564.50
	9.9.14 6.10.15	ND ND	19.58 18.98	ND ND				5563.95 5564.55
	12.04.15	ND	19.41	ND				5564.12
MW-5*	6.02.16	ND	19.08	ND	25.58	10.58-25.58		5564.45
	9.16.16 12.19.16	ND ND	19.69 19.42	ND ND			5583.41	5563.72 5563.99
	6.27.17	ND	19.12	ND				5564.29
	1.09.18 6.21.18	ND ND	19.22 19.27	ND ND				5564.19 5564.14
	12.13.18	ND	19.44	ND				5563.97
	8.20.19	ND	19.60	ND				5563.81
	1.07.20 6.4.20	ND ND	19.39 19.27	ND ND				5564.02 5564.14
	11.24.20	ND	20.66 ¹	ND				5562.75 ¹
	9.7.12 12.20.12	ND ND	18.55 18.49	ND ND				5563.67 5563.73
	3.20.13	ND	18.49	ND				5563.95
	6.19.13	ND	18.38	ND				5563.84
	9.18.13 12.16.13	ND ND	18.74 18.46	ND ND			5582.22	5563.48 5563.76
	3.14.14	ND	18.21	ND				5564.01
	9.9.14 6.10.15	ND ND	18.75 18.16	ND ND				5563.47 5564.06
	12.04.15	ND	18.60	ND				5563.62
MW-6*	6.02.16	ND	18.25	ND	25.50	10.50-25.50		5563.97
	9.16.16 12.19.16	ND ND	18.86 18.61	ND ND				5563.12 5563.37
	6.27.17	ND	18.29	ND				5563.69
	1.09.18 6.21.18	ND ND	18.43 18.47	ND ND				5563.55 5563.51
	12.13.18	ND	18.70	ND			5581.98	5563.28
	8.20.19	ND	18.79	ND				5563.19
	1.07.20 6.4.20	ND ND	18.61 18.47	ND ND				5563.37 5563.51
	11.24.20	ND	18.88	ND				5563.10

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				TABLE 2				
			Trunk 6C Ku					
Well I.D.	Date	Depth to	Depth to Water	DWATER ELEV Product	Total Depth of	Screen Interval	TOC Elevation	Groundwater
wen i.d.	Date	Product		Thickness	Well			Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	9.7.12	ND	19.03	ND				5563.21
	12.20.12 3.20.13	ND ND	18.97 18.79	ND ND				5563.27 5563.45
	6.19.13	ND	18.87	ND				5563.37
	9.17.13 12.16.13	ND ND	19.22 18.46	ND ND			5582.24	5563.02 5563.78
	3.14.14	ND	18.73	ND				5563.51
	9.9.14 6.10.15	ND ND	19.24 18.65	ND ND				5563.00 5563.59
	12.04.15	ND	19.10	ND				5563.14
MW-7*	6.02.16	ND	18.76	ND	25.85	10.85-25.85		5563.48
	9.16.16 12.19.16	ND ND	19.37 19.13	ND ND				5562.68 5562.92
	6.27.17	ND	18.80	ND				5563.25
	1.09.18	ND	18.95	ND				5563.10
	6.21.18 12.13.18	ND ND	18.98 19.22	ND ND			5582.05	5563.07 5562.83
	8.20.19	ND	19.31	ND				5562.74
	1.07.20 6.4.20	ND ND	19.14 19.00	ND ND				5562.91 5563.05
	11.24.20	ND	19.39	ND				5562.66
	9.7.12	ND	14.96	ND				5562.85
	12.20.12 3.20.13	ND ND	14.87 14.63	ND ND				5562.94 5563.18
	6.19.13	ND	14.03	ND				5563.07
	9.18.13	ND	15.08	ND			5577.04	5562.73
	12.16.13 3.14.14	ND ND	14.81 14.53	ND ND			5577.81	5563.00 5563.28
	9.9.14**	15.12**	15.25	0.13**				5562.65
	6.10.15	ND ND	14.44	ND				5563.37
MW-8*	12.04.15 6.02.16	ND	14.97 14.61	ND ND	24.78	9.78-24.78		5562.84 5563.20
	9.16.16	ND	15.29	ND				5562.18
	12.19.16 6.27.17	ND ND	15.00 14.62	ND ND				5562.47 5562.85
	1.09.18	ND	14.80	ND				5562.67
	6.21.18	ND	14.88	ND			5577.47	5562.59
	12.13.18 8.20.19	ND ND	15.11 15.22	ND ND				5562.36 5562.25
	1.07.20	ND	15.00	ND				5562.47
	6.4.20 11.24.20	ND ND	14.84 15.26	ND ND				5562.63 5562.21
	9.7.12	ND ND	15.26	ND ND				5564.93
	12.20.12	ND	17.47	ND				5565.01
	3.20.13	ND ND	17.28 17.42	ND ND				5565.20 5565.06
	6.19.13 9.17.13	ND	17.42	ND				5564.74
	12.16.13	ND	17.48	ND]		5582.48	5565.00
	3.14.14 9.9.14	ND ND	17.21 17.83	ND ND				5565.27 5564.65
	6.10.15	ND	17.18	ND				5565.30
N414 0*	12.04.15	ND	17.61	ND	05 70	10 70 05 70		5564.87
MW-9*	6.02.16 9.16.16	ND ND	17.30 17.94	ND ND	25.78	10.78-25.78		5565.18 5564.41
	12.19.16	ND	17.60	ND				5564.75
	6.27.17	ND	17.34	ND				5565.01
	1.09.18 6.21.18	ND ND	17.40 17.49	ND ND			FF00.05	5564.95 5564.86
	12.13.18	ND	17.63	ND			5582.35	5564.72
	8.20.19 1.07.20	ND	17.84 17.57	ND ND				5564.51
	6.4.20	ND ND	17.57	ND				5564.78 5564.87
	11.24.20	ND	17.84	ND				5564.51

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				TABLE 2				
			Trunk 6C Ku		line Release			
				DWATER ELEV				
Well I.D.	Date	Depth to	Depth to Water	Product	Total Depth of	Screen Interval	TOC Elevation	Groundwater
		Product	(free (DTOO)	Thickness	Well	(feet BTOO)	(fr. (ANOL)	Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	12.16.13	ND	16.93	ND				5560.87
	3.14.14 9.9.14	ND ND	14.63 15.34	ND ND				5563.17 5562.46
	6.10.15	ND	14.58	ND			5577.80	5563.22
	12.04.15	ND	15.10	ND				5562.70
	6.02.16 9.16.16	ND ND	14.74 15.49	ND ND				5563.06 5562.61
MW-10*	12.19.16	ND	15.12	ND	21.36	11.36-21.36		5562.98
10100-10	6.27.17 1.09.18	ND	14.73	ND	21.00	11.50-21.50		5563.37
	6.21.18	ND ND	14.90 15.05	ND ND				5563.20 5563.05
	12.13.18	ND	15.21	ND			5578.10	5562.89
	8.20.19 1.07.20	ND ND	15.38 15.09	ND ND				5562.72 5563.01
	6.4.20	ND	14.96	ND				5563.14
	11.24.20	ND	15.38	ND				5562.72
	12.16.13 3.14.14	ND ND	15.15 14.82	ND ND				5563.50 5563.83
	9.9.14	ND	15.63	ND	-		5578.65	5563.02
	6.10.15	ND	14.76	ND			5576.05	5563.89
	12.04.15 6.02.16	ND ND	15.35 14.98	ND ND				5563.30 5563.67
	9.16.16	ND	15.74	ND				5563.30
MW-11*	12.19.16	ND	15.35	ND	21.25	11.25-21.25		5563.69
	6.27.17 1.09.18	ND ND	15.00 15.11	ND ND				5564.04 5563.93
	6.21.18	ND	15.28	ND			5579.04	5563.76
	12.13.18 8.20.19	ND ND	15.45 15.66	ND ND			5575.04	5563.59 5563.38
	1.07.20	ND	15.32	ND				5563.72
	6.4.20	ND	15.16	ND				5563.88
	11.24.20 12.16.13	ND ND	15.60	ND ND				5563.44
	3.14.14	ND	15.54 15.27	ND			5579.99	5564.45 5564.72
	9.9.14	ND	15.96	ND				5564.03
	6.10.15 12.04.15	ND NG	15.22 NG	ND NG				5564.77 NG
	6.02.16	NG	NG	NG				NG
	9.16.16	NG	NG	NG				NG
MW-12*	12.19.16 6.27.17	NG NG	NG NG	NG NG	21.36	11.36-21.36		NG NG
	1.09.18	NG	NG	NG				NG
	6.21.18 12.13.18	NG	NG Plugged	NG			5580.28	NG NG
	8.20.19		Plugged					NG
	1.07.20		Plugged					NG
	6.4.20 11.24.20		Plugged Plugged					NG NG
	12.16.13	ND	19.88	ND				5563.15
	3.14.14	ND	19.63	ND				5563.40
	9.9.14 6.10.15	ND ND	20.18 19.57	ND ND			5583.03	5562.85 5563.46
	12.04.15	ND	20.01	ND				5563.02
	6.02.16	ND	19.67	ND				5563.36
	9.16.16 12.19.16	ND ND	20.27 20.03	ND ND	05.00	45 00 05 00		5563.07 5563.31
MW-13*	6.27.17	ND	19.74	ND	25.26	15.26-25.26		5563.60
	1.09.18 6.21.18	ND ND	19.85 19.89	ND ND				5563.49 5563.45
	12.13.18	ND	20.13	ND			5583.34	5563.21
	8.20.19	ND	20.22	ND				5563.12
	1.07.20 6.4.20	ND ND	20.02 19.89	ND ND				5563.32 5563.45
	11.24.20	ND	20.28	ND				5563.06

	TABLE 2 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ELEVATIONS											
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	Total Depth of Well (feet BTOC)	Screen Interval (feet BTOC)	TOC Elevation (feet AMSL)	Groundwater Elevation* (feet AMSL)				
MW-14	9.16.16 12.19.16 6.27.17 1.09.18 6.21.18 12.13.18 8.20.19 1.07.20 6.4.20 11.24.20	ND ND ND ND ND ND ND ND ND	14.48 14.18 13.83 13.99 14.10 14.33 14.43 14.21 14.05 14.44	ND ND ND ND ND ND ND ND ND	23.01	13.01-23.01	5576.39	5561.91 5562.21 5562.56 5562.40 5562.29 5562.06 5561.96 5562.18 5562.34 5562.34				
MW-15	9.16.16 12.19.16 6.27.17 1.09.18 6.21.18 12.13.18 8.20.19 1.07.20 6.4.20 11.24.20	ND ND ND ND ND ND ND ND ND	16.75 16.48 16.12 16.30 16.36 16.60 16.70 16.50 16.35 16.75	ND ND ND ND ND ND ND ND ND	23.15	13.15-23.15	5578.83	5562.08 5562.35 5562.71 5562.53 5562.47 5562.23 5562.13 5562.33 5562.48 5562.08				
MW-17	9.16.16 12.19.16 6.27.17 1.09.18 6.21.18 12.13.18 8.20.19 1.07.20 6.4.20 11.24.20	ND ND ND ND ND ND ND ND ND ND	16.02 15.68 15.30 15.45 15.55 15.72 15.91 15.62 15.51 15.90	ND ND ND ND ND ND ND ND ND	22.95	12.95-22.95	5579.86	5563.84 5564.18 5564.56 5564.41 5564.31 5564.14 5563.95 5564.24 5564.35 5563.96				

BTOC - below top of casing

AMSL - above mean sea level

TOC - top of casing

NG - Well not gauged, or Errant Gauge.

* - Monitoring wells resurveyed during September 2016. Groundwater elevations at each well are listed in feet above mean sea level as measured from the TOC elevation. Basis of elevation: GPS observations, as measured at set OPUS adjusted control point.

** - Field personnel recorded the presence of NAPL utilizing an interface probe, but the product was not visually verified.

NA - not applicable

¹ - Errant Gauge



APPENDIX C

Laboratory Data Sheets & Chain of Custody Documentation



June 10, 2020

Kyle Summers ENSOLUM 606 S Rio Grande Ste A Aztec, NM 87410 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2006317

RE: Trunk 6C

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/5/2020 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

Received by OG	C D :	8/11/	2021	12:20:43	PM
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Hall Envi	ronmental Analysis	Laboratory,	Inc.			L	Analytical Report Lab Order: 2006317 Date Reported: 6/10/2020			
CLIENT: Project:	ENSOLUM Trunk 6C				L	ab O	order: 200631	7		
Lab ID:	2006317-001		С	ollecti	on Date	: 6/4	/2020 8:30:00 AM			
Client Sample	ID: MW-5				Matrix	: AQ	QUEOUS			
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID		
EPA METHO	D 8260: VOLATILES SHORT	LIST					Anal	yst: JMR		
Benzene		ND	1.0		µg/L	1	6/8/2020 9:22:15 PM	R69486		
Toluene		ND	1.0		μg/L	1	6/8/2020 9:22:15 PM	R69486		
Ethylbenzene		ND	1.0		µg/L	1	6/8/2020 9:22:15 PM	R69486		
Xylenes, Tota	l	ND	1.5		µg/L	1	6/8/2020 9:22:15 PM	R69486		
Surr: 1,2-D	ichloroethane-d4	86.7	70-130		%Rec	1	6/8/2020 9:22:15 PM	I R69486		
Surr: Dibro	mofluoromethane	98.6	70-130		%Rec	1	6/8/2020 9:22:15 PM	R69486		
Surr: Tolue	ne-d8	102	70-130		%Rec	1	6/8/2020 9:22:15 PM	R69486		
Lab ID:	2006317-002		С	ollecti	on Date	: 6/4	/2020 9:15:00 AM			
Client Sample	ID: MW-9	Matrix: A				: AQ	QUEOUS			
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID		
EPA METHO	D 8260: VOLATILES SHORT	LIST					Anal	yst: JMR		
Benzene		ND	1.0		µg/L	1	6/8/2020 9:50:40 PM	R69486		
Toluene		ND	1.0		µg/L	1	6/8/2020 9:50:40 PM	R69486		
Toluene						1	6/8/2020 9:50:40 PM	D 00406		
Ethylbenzene		ND	1.0		µg/L	1	0/0/2020 9.30.40 FIV	l R69486		
		ND ND	1.0 1.5		μg/L μg/L	1	6/8/2020 9:50:40 PN			
Ethylbenzene Xylenes, Tota			-			-		I R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D	l	ND	1.5		µg/L	1	6/8/2020 9:50:40 PN	R69486 R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D	l ichloroethane-d4 mofluoromethane	ND 98.3	1.5 70-130		µg/L %Rec	1 1	6/8/2020 9:50:40 PN 6/8/2020 9:50:40 PN	R69486 R69486 R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro	l ichloroethane-d4 mofluoromethane	ND 98.3 105	1.5 70-130 70-130 70-130	ollecti	µg/L %Rec %Rec %Rec	1 1 1 1	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM	R69486 R69486 R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro Surr: Tolue	I ichloroethane-d4 mofluoromethane ne-d8 2006317-003	ND 98.3 105	1.5 70-130 70-130 70-130		μg/L %Rec %Rec %Rec	1 1 1 1 : 6/4	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM	R69486 R69486 R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro Surr: Tolue	I ichloroethane-d4 mofluoromethane ne-d8 2006317-003	ND 98.3 105	1.5 70-130 70-130 70-130 C		μg/L %Rec %Rec %Rec on Date Matrix	1 1 1 : 6/4 : AQ	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM /2020 9:50:00 AM	R69486 R69486 R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro Surr: Tolue Lab ID: Client Sample Analyses	I ichloroethane-d4 mofluoromethane ne-d8 2006317-003	ND 98.3 105 102 Result	1.5 70-130 70-130 70-130 C		μg/L %Rec %Rec %Rec on Date Matrix	1 1 1 : 6/4 : AQ	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:00 AM 2/2020 9:50:00 AM 2/UEOUS Date Analyzed	I R69486 I R69486 I R69486 I R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro Surr: Tolue Lab ID: Client Sample Analyses	I ichloroethane-d4 mofluoromethane ne-d8 2006317-003 E ID: MW-4	ND 98.3 105 102 Result	1.5 70-130 70-130 70-130 C		μg/L %Rec %Rec %Rec on Date Matrix Units	1 1 1 : 6/4 : AQ	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:00 AM 2/2020 9:50:00 AM 2/UEOUS Date Analyzed	R69486 R69486 R69486 R69486 R69486 Batch ID yst:		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro Surr: Tolue Lab ID: Client Sample Analyses EPA METHOR	I ichloroethane-d4 mofluoromethane ne-d8 2006317-003 E ID: MW-4	ND 98.3 105 102 Result	1.5 70-130 70-130 70-130 C RL		μg/L %Rec %Rec %Rec on Date Matrix Units μg/L	1 1 1 : 6/4 : AQ	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:00 AM 2/2020 9:50:00 AM 2/2020 9:50:00 AM 2/2020 S Date Analyzed Analy	Batch ID MR69486 MR69486 MR69486 MR69486 MR69486 MR69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro Surr: Tolue Lab ID: Client Sample Analyses EPA METHOL Benzene	l ichloroethane-d4 mofluoromethane ne-d8 2006317-003 e ID: MW-4 D 8260: VOLATILES SHORT	ND 98.3 105 102 Result LIST ND	1.5 70-130 70-130 70-130 C RL 1.0		μg/L %Rec %Rec %Rec on Date Matrix Units μg/L μg/L	1 1 1 : 6/4 : A(DF	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM /2020 9:50:00 AM 2000 000 000 000 000 000 000 000 000 00	Batch ID yst: JMR M R69486 M R69486 M R69486 M R69486 M R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro Surr: Tolue Lab ID: Client Sample Analyses EPA METHOI Benzene Toluene Ethylbenzene	I ichloroethane-d4 mofluoromethane ne-d8 2006317-003 E ID: MW-4 D 8260: VOLATILES SHORT	ND 98.3 105 102 Result LIST ND ND ND ND	1.5 70-130 70-130 70-130 C RL 1.0 1.0 1.0		μg/L %Rec %Rec %Rec on Date Matrix Units μg/L μg/L μg/L	1 1 1 : 6/4 : AC DF	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 7/2020 9:50:00 AM QUEOUS Date Analyzed Analy 6/8/2020 10:19:11 P 6/8/2020 10:19:11 P	Batch ID yst: JMR M R69486 M R69486 M R69486 M R69486 M R69486 M R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro Surr: Tolue Lab ID: Client Sample Analyses EPA METHOI Benzene Toluene Ethylbenzene Xylenes, Tota	I ichloroethane-d4 mofluoromethane ne-d8 2006317-003 E ID: MW-4 D 8260: VOLATILES SHORT	ND 98.3 105 102 Result LIST ND ND ND ND ND	1.5 70-130 70-130 70-130 C RL 1.0 1.0 1.0 1.0		μg/L %Rec %Rec %Rec on Date Matrix Units μg/L μg/L	1 1 1 : 6/4 : AC DF 1 1	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM /2020 9:50:00 AM 2000 000 AM 2000	Batch ID vst: JMR M R69486 M R69486 M R69486 M R69486 M R69486 M R69486 M R69486 M R69486		
Ethylbenzene Xylenes, Tota Surr: 1,2-D Surr: Dibro Surr: Tolue Lab ID: Client Sample Analyses EPA METHOI Benzene Toluene Ethylbenzene Xylenes, Tota Surr: 1,2-D	I ichloroethane-d4 mofluoromethane ne-d8 2006317-003 E ID: MW-4 D 8260: VOLATILES SHORT	ND 98.3 105 102 Result LIST ND ND ND ND	1.5 70-130 70-130 70-130 C RL 1.0 1.0 1.0		μg/L %Rec %Rec %Rec on Date Matrix Units μg/L μg/L μg/L μg/L	1 1 1 1 : 6/4 : AQ DF	6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM 6/8/2020 9:50:40 PM /2020 9:50:00 AM 2020 9:50:00 AM 2020 9:50:00 AM 2020 00:00 AM 2020 00:00 AM 2020 00:19:11 P 6/8/2020 10:19:11 P 6/8/2020 10:19:11 P	R69486 R69486		

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

PSample pH Not In RangeRLReporting Limit

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Received by O	CD :	8/11/2	021 12	2:20:43	PM
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Hall Envi	ronmental Analysis	Laboratory,	Inc.			Analytical Report Lab Order: 2006317 Date Reported: 6/10/2020			
CLIENT: Project:	ENSOLUM Trunk 6C				I	.ab C	Order: 2006	317	
Lab ID:	2006317-004		C	ollecti	on Date	e: 6/4	/2020 10:35:00 A	M	
Client Sample	e ID: MW-3				Matrix	: A(QUEOUS		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	B	atch ID
EPA METHO	D 8260: VOLATILES SHORT	LIST					Ar	alyst	: JMR
Benzene		ND	1.0		µg/L	1	6/8/2020 10:47:47	' PM	R69486
Toluene		ND	1.0		μg/L	1	6/8/2020 10:47:47	' PM	R69486
Ethylbenzene	•	ND	1.0		μg/L	1	6/8/2020 10:47:47	' PM	R69486
Xylenes, Tota	al	ND	1.5		µg/L	1	6/8/2020 10:47:47	' PM	R69486
Surr: 1,2-D	ichloroethane-d4	95.6	70-130		%Rec	1	6/8/2020 10:47:47	' PM	R69486
Surr: Dibro	mofluoromethane	99.7	70-130		%Rec	1	6/8/2020 10:47:47	' PM	R69486
Surr: Tolue	ene-d8	90.9	70-130		%Rec	1	6/8/2020 10:47:47	' PM	R69486
Lab ID:	2006317-005		С	ollecti	on Date	e: 6/4	/2020 11:10:00 A	M	
Client Sample	e ID: MW-10	Matrix: AQUEOUS							
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	B	atch ID
EPA METHO	D 8260: VOLATILES SHORT	LIST					Ar	alyst	JMR
Benzene		ND	1.0		µg/L	1	6/9/2020 1:10:33	AM	R69486
Toluene		ND	1.0		μg/L	1	6/9/2020 1:10:33	AM	R69486
Ethylbenzene		ND	1.0		μg/L	1	6/9/2020 1:10:33	AM	R69486
Xylenes, Tota		ND	1.5		µg/L	1	6/9/2020 1:10:33	AM	R69486
Surr: 1,2-D	ichloroethane-d4	90.4	70-130		%Rec	1	6/9/2020 1:10:33	AM	R69486
Surr: Dibro	mofluoromethane	100	70-130		%Rec	1	6/9/2020 1:10:33	AM	R69486
Surr: Tolue	ene-d8	95.6	70-130		%Rec	1	6/9/2020 1:10:33	AM	R69486
	2006317-006		C	ollecti	on Date	e: 6/4	/2020 11:50:00 A	М	
Lab ID:	2000317-000								
Lab ID: Client Sample					Matrix	x: A(QUEOUS		
		Result	RL	Qual			UEOUS Date Analyzed	B	atch ID
Client Sample Analyses			RL	Qual			Date Analyzed		atch ID
Client Sample Analyses EPA METHOI	e ID: MW-2	LIST		Qual	Units	DF	Date Analyzed	alyst	JMR
Client Sample Analyses	e ID: MW-2	LIST ND	1.0	Qual	Units µg/L	DF	Date Analyzed Ar 6/9/2020 1:39:03	alyst AM	: JMR R69486
Client Sample Analyses EPA METHON Benzene Toluene	D 8260: VOLATILES SHORT	LIST ND ND	1.0 1.0	Qual	Units µg/L µg/L	DF 1	Date Analyzed Ar 6/9/2020 1:39:03 6/9/2020 1:39:03	alyst AM AM	: JMR R69486 R69486
Client Sample Analyses EPA METHOI Benzene Toluene Ethylbenzene	D 8260: VOLATILES SHORT	LIST ND ND ND	1.0 1.0 1.0	Qual	Units µg/L µg/L µg/L	DF 1 1	Date Analyzed Ar 6/9/2020 1:39:03 6/9/2020 1:39:03 6/9/2020 1:39:03	alyst AM AM AM	: JMR R69486 R69486 R69486
Client Sample Analyses EPA METHOI Benzene Toluene Ethylbenzene Xylenes, Tota	D 8260: VOLATILES SHORT	LIST ND ND ND ND	1.0 1.0 1.0 1.5	Qual	Units µg/L µg/L µg/L µg/L	DF 1 1 1 1	Date Analyzed Ar 6/9/2020 1:39:03 6/9/2020 1:39:03 6/9/2020 1:39:03 6/9/2020 1:39:03	alyst AM AM AM AM	: JMR R69486 R69486 R69486 R69486
Client Sample Analyses EPA METHON Benzene Toluene Ethylbenzene Xylenes, Tota Surr: 1,2-D	D 8260: VOLATILES SHORT	LIST ND ND ND	1.0 1.0 1.0	Qual	Units µg/L µg/L µg/L	DF 1 1	Date Analyzed Ar 6/9/2020 1:39:03 6/9/2020 1:39:03 6/9/2020 1:39:03	alyst AM AM AM AM AM	: JMR R69486 R69486 R69486

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

S % Recovery outside of range due to dilution or matrix в Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range RL Reporting Limit

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Received by O	CD:	8/11/2	2021 1	2:20:43	PM
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Hall Environmental Analysis Laboratory, Inc.					Analytical Report Lab Order: 2006317 Date Reported: 6/10/2020			
CLIENT: Project:	ENSOLUM Trunk 6C			L	ab C	Order: 200631	7	
Lab ID:	2006317-007		Col	lection Date	: 6/4	4/2020 11:50:00 AM	[
Client Sample	ID: MW-11			Matrix	: A(QUEOUS		
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	Batch ID	
EPA METHO	D 8260: VOLATILES SHORT	LIST				Analy	/st: JMR	
Benzene		ND	1.0	µg/L	1	6/9/2020 2:07:32 AM	W6948	
Toluene		ND	1.0	µg/L	1	6/9/2020 2:07:32 AN	W6948	
Ethylbenzene		ND	1.0	µg/L	1	6/9/2020 2:07:32 AN	W6948	
Xylenes, Total		ND	1.5	µg/L	1	6/9/2020 2:07:32 AN	W6948	
Surr: 1,2-Dichloroethane-d4		94.5	70-130	%Rec	1	6/9/2020 2:07:32 AM	W6948	
Surr: Dibromofluoromethane		97.6	70-130	%Rec	1	6/9/2020 2:07:32 AM	W6948	
Surr: Tolue	ne-d8	91.3	70-130	%Rec	1	6/9/2020 2:07:32 AN	W6948	
Lab ID:	2006317-008		Collection Date: 6/4/2020 12:35:00 PM					
Client Sample ID: MW-1			Matrix: AQUEOUS					
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	Batch ID	
EPA METHOD 8260: VOLATILES SHORT LI		LIST				Analy	/st: JMR	
Benzene		1400	20	µg/L	20	6/9/2020 3:32:55 AM	W6948	
Toluene		740	20	µg/L	20	6/9/2020 3:32:55 AN	W6948	
Ethylbenzene		95	20	µg/L	20	6/9/2020 3:32:55 AN	W6948	
Xylenes, Total		270	30	µg/L	20	6/9/2020 3:32:55 AM	W6948	
Surr: 1,2-Dichloroethane-d4		92.0	70-130	%Rec	20	6/9/2020 3:32:55 AM	W6948	
Surr: Dibromofluoromethane		99.8	70-130	%Rec	20	6/9/2020 3:32:55 AM	W6948	
Surr: Toluene-d8		89.1	70-130	%Rec	20	6/9/2020 3:32:55 AM	W6948	

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

S % Recovery outside of range due to dilution or matrix в Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

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WO#:	2006317
	10-Jun-20

Client:	ENSOLU	М												
Project:	Trunk 6C													
Sample ID: mb1		Samp	Type: MI	BLK	Tes	tCode: EF	PA Method	8260: Volatile	es Short L	.ist				
Client ID: PBW			h ID: R6		RunNo: 69486									
Prep Date:		Analysis [Date: 6/	/8/2020		SeqNo: 24		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											
Xylenes, Total		ND	1.5											
Surr: 1,2-Dichloroetha	ane-d4	9.7		10.00		96.6	70	130						
Surr: 4-Bromofluorobe		9.5		10.00		94.6	70	130						
Surr: Dibromofluorom		10		10.00		103	70	130						
Surr: Toluene-d8		9.4		10.00		93.6	70	130						
		0				0010								
Sample ID: 100ng	lcs	Samp ⁻	Type: LC	S	Tes	tCode: EF	PA Method	8260: Volatile	es Short L	.ist				
Client ID: LCSW		Batc	h ID: R6	9486	F	RunNo: 6 9	9486							
Prep Date:		Analysis [Date: 6/	8/2020	S	SeqNo: 24	411387	Units: µg/L						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		20	1.0	20.00	0	99.8	70	130						
Toluene		19	1.0	20.00	0	94.1	70	130						
Surr: 1,2-Dichloroetha	ane-d4	9.3		10.00		92.5	70	130						
Surr: 4-Bromofluorobe	enzene	9.6		10.00		96.1	70	130						
Surr: Dibromofluorom	ethane	9.8		10.00		98.2	70	130						
Surr: Toluene-d8		9.7		10.00		96.6	70	130						
Sample ID: mb2		Samp	Туре: М	BLK	Tes	tCode: EF	PA Method	8260: Volatile	es Short L	.ist				
Client ID: PBW			h ID: W		RunNo: 69486									
Prep Date:		Analysis [Date: 6/	9/2020	S	SeqNo: 24	411394	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											
Xylenes, Total		ND	1.5											
Surr: 1,2-Dichloroetha	ane-d4	9.1		10.00		90.9	70	130						
Surr: 4-Bromofluorobe		9.3		10.00		92.8	70	130						
Surr: Dibromofluorom		10		10.00		100	70	130						
Surr: Toluene-d8		9.0		10.00		90.4	70	130						
Sample ID: 100ng	lcs2	Samo	Type: LC	· s	Tes	tCode: F	PA Method	8260: Volatile	es Short I	ist				
Client ID: LCSW			h ID: W			RunNo: 69								
Prep Date:		Analysis [SegNo: 24		Units: µg/L						
Analyte		Result	PQL		SPK Ref Val	·		HighLimit	%RPD	RPDLimit	Qual			

Value exceeds Maximum Contaminant Level. * D

В

Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

ND

PQL Practical Quanitative Limit S

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

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

RL Reporting Limit

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Released to Imaging: 12/28/2021 4:55:23 PM

ENSOLUM

Trunk 6C

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID: 100ng Ics2 SampType: LCS TestCode: EPA Method 8260: Volatiles Short List														
Sample ID: 100ng lcs2														
Client ID: LCSW	Batch	ID: We	69486	F	unNo: 6	9486								
Prep Date:	Analysis Date: 6/9/2020		S	SeqNo: 2411395										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	21	1.0	20.00	0	107	70	130							
Toluene	20	1.0	20.00	0	102	70	130							
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.9	70	130							
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130							
Surr: Dibromofluoromethane	9.5		10.00		95.5	70	130							
Surr: Toluene-d8	9.6		10.00		95.9	70	130							
Sample ID: 2006317-007ams	SampT	уре: МS	6	Tes	tCode: El	PA Method	8260: Volatile	es Short L	ist					
Client ID: MW-11	Batch	ID: We	69486	F	tunNo: 6	9486								
Prep Date:	Analysis D	ate: 6/	9/2020	5	eqNo: 24	411397	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	21	1.0	20.00	0	106	70	130							
Toluene	21	1.0	20.00	0	104	70	130							
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.4	70	130							
Surr: 4-Bromofluorobenzene	9.9		10.00		98.7	70	130							
Surr: Dibromofluoromethane	9.7		10.00		97.0	70	130							
Surr: Toluene-d8	9.6		10.00		96.0	70	130							
Sample ID: 2006317-007amsd	I SampT	уре: МS	D	TestCode: EPA Method 8260: Volatiles Short List										
Client ID: MW-11	Batch	ID: We	69486	F	unNo: 6	9486								
Prep Date:	Analysis D	ate: 6/	9/2020	S	eqNo: 24	411398	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	20	1.0	20.00	0	102	70	130	4.14	20					
Toluene	19	1.0	20.00	0	94.2	70	130	9.53	20					
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.0	70	130	0	0					
Surr: 4-Bromofluorobenzene	9.2		10.00		92.0	70	130	0	0					
Surr: Dibromofluoromethane	9.4		10.00		94.1	70	130	0	0					
Surr: Toluene-d8	8.8		10.00		88.4	70	130	0	0					

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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WO#:	2006317

10-Jun-20

Page	39	of	74
1 use	~	vj	1.1

	ALL NVIRONME NALYSIS ABORATOR		Hall Environm TEL: 505-345- Website: ww	4901 Albuquerqu 3975 FAX: 5	Hawkins NE e, NM 87109	Sar	nple Log-In Cł	neck Lis
Client Na	me: ENSO	LUM AZTEC	Work Order Nun	nber: 2006	317		RcptNo:	1
Received	By: Desir	ee Dominguez	6/5/2020 8:30:00 /	AM	-	Pr		
Completed	By: Desir	ee Dominguez	6/5/2020 10:44:00	AM	-	P		
Reviewed	By: JR	615-120			-	<u> </u>		
	Custody					_	_	
1. Is Chair	n of Custody c	omplete?		Yes	\checkmark	No	Not Present 🗌	
2. How wa	is the sample	delivered?		Couri	<u>er</u>			
<u>Log In</u> 3. Was an	attempt made	e to cool the sample	\$?	Yes	✓	No 🗌	NA 🗌	
4. Were al	samples rece	eived at a temperatu	re of >0° C to 6.0°C	Yes	✓	No 🗌	NA 🗌	
5. Sample	(s) in proper c	ontainer(s)?		Yes	\checkmark	No 🗌		
6. Sufficier	it sample volu	me for indicated test	:(s)?	Yes		No 🗌		
7. Are sam	ples (except V	OA and ONG) prop	erly preserved?	Yes		No 🗌		
8. Was pre	servative adde	ed to bottles?		Yes [No 🗹	NA 🗌	
9. Receive	d at least 1 via	I with headspace <1	/4" for AQ VOA?	Yes		No 🗌		
10. Were ar	ny sample con	tainers received bro	ken?	Yes [No 🗹	# of preserved bottles checked	
		n bottle labels? n chain of custody)		Yes		No 🗌	for pH:	12 unless note
		identified on Chain o	of Custody?	Yes		No 🗌	Adjusted?	
		es were requested?		Yes		No 🗌		00.00
		able to be met? for authorization.)		Yes		No 🗌	Checked by:	PHD 6131
		applicable)					_	
		all discrepancies wit	n this order?	Yes		No 🗌	NA 🗹	
	erson Notified:		Date					
	/ Whom:		Via:	🗌 eMai	Phone	e 🗌 Fax	In Person	
	egarding: ient Instructior	ns:						
	nal remarks:							
	Information							
	er No Temp	°C Condition	Seal Intact Seal No	Seal Dat	e Siar	ned By	1	
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Page 1 of 1

Received by OCD: 8/11/20	21	12:20:43 P	^D M													1	I I I	age 40	of 74
 HALL ENVIRONMENTAL HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 	Analysis Request		(1.407 01 8270 3, NO ₂ , 3, NO ₂ ,	thod t 8310 IsteM IsteM IsteM IsteM (Au (Au	EDB (Me RCKA 8 CI, F, Br RCKA 8 (VC												Kyle Summers	Bill to Ensolum	ib-contracted data will be clearly notated on the analytical report.
1 1901 I	-	ьсв's O / МRO)		June Internal - Marca	8081 Pes												ks: DM	-	. Any su
		(1208) &				×	1	X	×	\scriptstyle	×		X		_	_	Remarks:		ossibility
Turn-Aroun Standa Project Na	054122601	Project Manager:	R Yes DNO	# of Coolers: Cooler Temp(including cF): 1, U + 0, 0 2 14 %	tive HEAL No.	2 you wood Hack - 1001	3×40mm Vor Harly -002	3×40mLbox Nally -003	-	= 2004 Mach Mach		3x404 VOA 10 21 - 007 x	3×40ml Vad Hacky -008	0			Via: Date Time 35	Received by: Via: Date' Time (0.5/20 8:30	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
Client: Eusolucu Client: Eusolucu Mailing Address: colo S. P. colonado Suile A		email or Fax#: K Survers & ansolume con QA/QC Package: Standard	()		Date Time Matrix Sample Name	6/4/20 Bizo w WW -5	6/1/2 9:15 W MW-9	6/4/20 m MW - 4	10/4/20 10:35 W MW-3	6/2/2 11:10 W MW-10 .	6/4/20 11:50 W MW-2	6/4/20 11:50 W NW-1)	6/4/00 12:35 W WW-1				Time: 2 1635	Mylpero 1813 MNJATUAL MOUL BA	If necessary, samples submitted to Hall Environmental may be sub-

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June 10, 2020

Kyle Summers ENSOLUM 606 S Rio Grande Ste A Aztec, NM 87410 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2006373

RE: Trunk 6C

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/6/2020 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 2006373

Date Reported: 6/10/2020

CLIENT: ENSOLUM	Client Sample ID: MW-8											
Project: Trunk 6C	Collection Date: 6/5/2020 8:05:00 AM											
Lab ID: 2006373-001	Matrix: AQUEOUS		Receiv	ed Dat	e: 6/6	5/2020 9:00:00 AM						
Analyses	Result	RL Qual U		Units	DF	Date Analyzed	Batch					
EPA METHOD 8260: VOLATILES	SHORT LIST					Analys	t: JMR					
Benzene	ND	1.0		µg/L	1	6/9/2020 4:01:22 AM	W69486					
Toluene	ND	1.0		µg/L	1	6/9/2020 4:01:22 AM	W69486					
Ethylbenzene	ND	1.0		µg/L	1	6/9/2020 4:01:22 AM	W69486					
Xylenes, Total	1.9	1.5		µg/L	1	6/9/2020 4:01:22 AM	W69486					
Surr: 1,2-Dichloroethane-d4	94.6 7	0-130		%Rec	1	6/9/2020 4:01:22 AM	W69486					
Surr: 4-Bromofluorobenzene	89.3 7	0-130		%Rec	1	6/9/2020 4:01:22 AM	W69486					
Surr: Dibromofluoromethane	107 7	0-130		%Rec	1	6/9/2020 4:01:22 AM	W69486					
Surr: Toluene-d8	95.0 7	0-130		%Rec	1	6/9/2020 4:01:22 AM	W69486					

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 S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- T Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

Analytical Report

Lab Order 2006373

Date Reported: 6/10/2020

CLIENT: ENSOLUM	Client Sample ID: MW-14												
Project: Trunk 6C	Collection Date: 6/5/2020 8:55:00 AM												
Lab ID: 2006373-002	Matrix: AQUEOUS		6/2020 9:00:00 AM										
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch							
EPA METHOD 8260: VOLATILES SI	HORT LIST				Analys	t: JMR							
Benzene	ND	1.0	µg/L	1	6/9/2020 4:29:48 AM	W69486							
Toluene	ND	1.0	µg/L	1	6/9/2020 4:29:48 AM	W69486							
Ethylbenzene	ND	1.0	µg/L	1	6/9/2020 4:29:48 AM	W69486							
Xylenes, Total	ND	1.5	µg/L	1	6/9/2020 4:29:48 AM	W69486							
Surr: 1,2-Dichloroethane-d4	95.4 7	0-130	%Rec	1	6/9/2020 4:29:48 AM	W69486							
Surr: 4-Bromofluorobenzene	89.6 7	0-130	%Rec	1	6/9/2020 4:29:48 AM	W69486							
Surr: Dibromofluoromethane	107 7	0-130	%Rec	1	6/9/2020 4:29:48 AM	W69486							
Surr: Toluene-d8	99.2 7	0-130	%Rec	1	6/9/2020 4:29:48 AM	W69486							

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 S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- T Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 8

Analytical Report

Lab Order 2006373

6/9/2020 4:58:13 AM

W69486

Date Reported: 6/10/2020

CLIENT: ENSOLUM			Client Sample ID: MW-15						
Project:	Trunk 6C			(Collect	tion Dat	t e: 6/5	5/2020 9:35:00 AM	
Lab ID:	2006373-003	Matrix	: AQUEOU	S	Recei	ved Dat	t e: 6/6	5/2020 9:00:00 AM	
Analyses		I	Result	RL	Qual	Units	DF	Date Analyzed	Batch
	THOD 8260: VOLATILES	SHORT LIST						Analys	st: JMR
Benzene	9		ND	1.0		µg/L	1	6/9/2020 4:58:13 AM	W69486
Toluene			ND	1.0		µg/L	1	6/9/2020 4:58:13 AM	W69486
Ethylber	izene		4.7	1.0		µg/L	1	6/9/2020 4:58:13 AM	W69486
Xylenes,	Total		49	1.5		µg/L	1	6/9/2020 4:58:13 AM	W69486
Surr:	1,2-Dichloroethane-d4		94.8	70-130		%Rec	1	6/9/2020 4:58:13 AM	W69486
Surr: 4	4-Bromofluorobenzene		97.4	70-130		%Rec	1	6/9/2020 4:58:13 AM	W69486
Surr:	Dibromofluoromethane		96.4	70-130		%Rec	1	6/9/2020 4:58:13 AM	W69486

91.3

70-130

%Rec

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 S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- I Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 8

Analytical Report

Lab Order 2006373

Date Reported: 6/10/2020

CLIENT: ENSOLUM	Client Sample ID: MW-7						
Project: Trunk 6C	Collection Date: 6/5/2020 10:20:00 AM						
Lab ID: 2006373-004	Matrix: AQUEOUS		Received Da	te: 6/	6/2020 9:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8260: VOLATILES SI	HORT LIST				Analys	t: JMR	
Benzene	ND	1.0	µg/L	1	6/9/2020 5:26:36 AM	W69486	
Toluene	ND	1.0	µg/L	1	6/9/2020 5:26:36 AM	W69486	
Ethylbenzene	ND	1.0	µg/L	1	6/9/2020 5:26:36 AM	W69486	
Xylenes, Total	ND	1.5	µg/L	1	6/9/2020 5:26:36 AM	W69486	
Surr: 1,2-Dichloroethane-d4	92.2 7	0-130	%Rec	1	6/9/2020 5:26:36 AM	W69486	
Surr: 4-Bromofluorobenzene	95.0 7	0-130	%Rec	1	6/9/2020 5:26:36 AM	W69486	
Surr: Dibromofluoromethane	97.6 7	0-130	%Rec	1	6/9/2020 5:26:36 AM	W69486	
Surr: Toluene-d8	88.7 7	0-130	%Rec	1	6/9/2020 5:26:36 AM	W69486	

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 S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- T Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2006373

Date Reported: 6/10/2020

CLIENT: ENSOLUM	Client Sample ID: MW-13						
Project: Trunk 6C	Collection Date: 6/5/2020 10:25:00 AM						
Lab ID: 2006373-005	Matrix: AQUEOUS		Received Dat	t e: 6/	6/2020 9:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8260: VOLATILES S	HORT LIST				Analys	t: JMR	
Benzene	ND	1.0	µg/L	1	6/9/2020 5:54:58 AM	W69486	
Toluene	ND	1.0	μg/L	1	6/9/2020 5:54:58 AM	W69486	
Ethylbenzene	ND	1.0	μg/L	1	6/9/2020 5:54:58 AM	W69486	
Xylenes, Total	ND	1.5	μg/L	1	6/9/2020 5:54:58 AM	W69486	
Surr: 1,2-Dichloroethane-d4	98.6 7	0-130	%Rec	1	6/9/2020 5:54:58 AM	W69486	
Surr: 4-Bromofluorobenzene	98.1 7	0-130	%Rec	1	6/9/2020 5:54:58 AM	W69486	
Surr: Dibromofluoromethane	98.5 7	0-130	%Rec	1	6/9/2020 5:54:58 AM	W69486	
Surr: Toluene-d8	94.2 7	0-130	%Rec	1	6/9/2020 5:54:58 AM	W69486	

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 S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- T Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Hall Environmental Analysis	Laboratory, Inc.
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Lab Order 2006373

Date Reported:	6/10/2020
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CLIENT: ENSOLUM	Client Sample ID: MW-6 Collection Date: 6/5/2020 11:25:00 AM					
Project: Trunk 6C						
Lab ID: 2006373-006	Matrix: AQUEOUS		Received Dat	e: 6/0	6/2020 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SI	HORT LIST				Analys	t: JMR
Benzene	ND	1.0	μg/L	1	6/9/2020 6:23:19 AM	W69486
Toluene	ND	1.0	μg/L	1	6/9/2020 6:23:19 AM	W69486
Ethylbenzene	5.1	1.0	μg/L	1	6/9/2020 6:23:19 AM	W69486
Xylenes, Total	17	1.5	μg/L	1	6/9/2020 6:23:19 AM	W69486
Surr: 1,2-Dichloroethane-d4	98.9 7	0-130	%Rec	1	6/9/2020 6:23:19 AM	W69486
Surr: 4-Bromofluorobenzene	101 7	0-130	%Rec	1	6/9/2020 6:23:19 AM	W69486
Surr: Dibromofluoromethane	96.7 7	0-130	%Rec	1	6/9/2020 6:23:19 AM	W69486
Surr: Toluene-d8	98.1 7	0-130	%Rec	1	6/9/2020 6:23:19 AM	W69486

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 S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- T Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 8

Analytical Report

Lab Order 2006373

6/9/2020 6:51:41 AM

W69486

Date Reported:	6/10/2020
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CLIENT: ENSOLUM		C	ient Sample I	D: M	W-17	
Project: Trunk 6C		(Collection Dat	e: 6/5	5/2020 12:20:00 PM	
Lab ID: 2006373-007	Matrix: AQUEOUS		Received Dat	e: 6/6	5/2020 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SH	IORT LIST				Analys	t: JMR
Benzene	17	1.0	µg/L	1	6/9/2020 6:51:41 AM	W69486
Toluene	ND	1.0	μg/L	1	6/9/2020 6:51:41 AM	W69486
Ethylbenzene	ND	1.0	μg/L	1	6/9/2020 6:51:41 AM	W69486
Xylenes, Total	ND	1.5	μg/L	1	6/9/2020 6:51:41 AM	W69486
Surr: 1,2-Dichloroethane-d4	92.6 7	0-130	%Rec	1	6/9/2020 6:51:41 AM	W69486
Surr: 4-Bromofluorobenzene	94.8 7	0-130	%Rec	1	6/9/2020 6:51:41 AM	W69486
Surr: Dibromofluoromethane	98.4 7	0-130	%Rec	1	6/9/2020 6:51:41 AM	W69486

89.1

70-130

%Rec

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 S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- I Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 8

WO#:	2006373
	10-Jun-20

Client:	ENSOLUM
Project:	Trunk 6C

Sample ID: mb2	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: PBW	Batc	h ID: We	69486	F	RunNo: 6	9486				
Prep Date:	Analysis I	Date: 6/	9/2020	S	SeqNo: 2411394 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								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.9	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		92.8	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.0		10.00		90.4	70	130			
Sample ID: 100ng lcs2	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: LCSW	Batc	h ID: We	69486	F	RunNo: 6	9486				
Prep Date:	Analysis [Date: 6/	9/2020	5	SeqNo: 24	411395	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	107	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.9	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.5	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	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

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

Page 8 of 8

Client Name: ENSOLUM AZTEC Work Order Number: 2006373 RcpINo: 1 Received By: Desiree Dominguez 6/6/2020 9:00:00 AM Image: Completed By: <	List
Completed By: Desiree Dominguez 6/6/2020/10.57:13 AM Reviewed By: Yes No Not Present 1. Is Chain of Custody No Not Present . 2. How was the sample delivered? Courier . . Log In . No NA . 3. Was an attempt made to cool the samples? Yes No NA 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 5. Sample(s) in proper container(s)? Yes No NA 6. Sufficient sample volume for indicated test(s)? Yes No NA 7. Are samples (except VOA and ONG) properly preserved? Yes No NA 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No Na 10. Were any sample containers received broken? Yes No Ma . 12. Are matrice correctly identified on Chain of Custody? Yes No . Adjusted? 12. Are matrice correctly identified on Chain of Custody? Yes No . .	
Completed By: Desiree Dominguez 6/6/2020/10.57:13 AM Reviewed By: Yes No Not Present 1. Is Chain of Custody No Not Present . 2. How was the sample delivered? Courier . . Log In . No NA . 3. Was an attempt made to cool the samples? Yes No NA 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 5. Sample(s) in proper container(s)? Yes No NA 6. Sufficient sample volume for indicated test(s)? Yes No NA 7. Are samples (except VOA and ONG) properly preserved? Yes No NA 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
Reviewed By: 4 4 Chain of Custody 1. Is Chain of Custody complete? Yes No Not Present 2. How was the sample delivered? Courier Log In Survey and the samples? Yes No NA 3. Was an attempt made to cool the samples? Yes No NA 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 5. Sample(s) in proper container(s)? Yes No NA 6. Sufficient sample volume for indicated test(s)? Yes No NA 7. Are samples (except VOA and ONG) properly preserved? Yes No NA 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
1. Is Chain of Custody complete? Yes V No Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No NA 4. Were all samples received at a temperature of >0° C to 6.0°C Yes V No NA 5. Sample(s) in proper container(s)? Yes V No NA 6. Sufficient sample volume for indicated test(s)? Yes V No NA 7. Are samples (except VOA and ONG) properly preserved? Yes V No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
2. How was the sample delivered? Courier Log In	
Log In	
3. Was an attempt made to cool the samples? Yes No NA 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 5. Sample(s) in proper container(s)? Yes No NA 6. Sufficient sample volume for indicated test(s)? Yes No Na 7. Are samples (except VOA and ONG) properly preserved? Yes No Na 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 5. Sample(s) in proper container(s)? Yes No 6. Sufficient sample volume for indicated test(s)? Yes No 7. Are samples (except VOA and ONG) properly preserved? Yes No 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
5. Sample(s) in proper container(s)? Yes No 6. Sufficient sample volume for indicated test(s)? Yes No 7. Are samples (except VOA and ONG) properly preserved? Yes No 8. Was preservative added to bottles? Yes No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
6. Sufficient sample volume for indicated test(s)? Yes No 7. Are samples (except VOA and ONG) properly preserved? Yes No 8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
7. Are samples (except VOA and ONG) properly preserved? Yes No 8. Was preservative added to bottles? Yes No 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
8. Was preservative added to bottles? Yes No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	
10. Were any sample containers received broken? Yes No # of preserved bottles checked for pH: 11. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH: (Note discrepancies on chain of custody) Yes No # of preserved bottles checked for pH: 12. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 13. Is it clear what analyses were requested? Yes No Checked by 14. Were all holding times able to be met? Yes No Checked by (If no, notify customer for authorization.) Special Handling (if applicable) Checked by Adjusted? 15. Was client notified:	
11. Does paperwork match bottle labels? Yes ✓ No bottles checked for pH: (Note discrepancies on chain of custody) Yes ✓ No Gr pH: (<2 or >12 unless) 12. Are matrices correctly identified on Chain of Custody? Yes ✓ No Adjusted? 13. Is it clear what analyses were requested? Yes ✓ No Checked by: ✓ 14. Were all holding times able to be met? Yes ✓ No Checked by: ✓ ✓ Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No NA ✓ 15. Was client notified:	
11. Does paperwork match bottle labels? Yes ✓ No for pH: (Note discrepancies on chain of custody) Yes ✓ No Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes ✓ No Adjusted? 13. Is it clear what analyses were requested? Yes ✓ No Checked by: Adjusted? 14. Were all holding times able to be met? Yes ✓ No Checked by: Adjusted? 15. Was client notified of all discrepancies with this order? Yes ✓ No NA ✓ Person Notified:	
12. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 13. Is it clear what analyses were requested? Yes No Adjusted? 14. Were all holding times able to be met? Yes No Checked by: 14. Were all holding times able to be met? Yes No Checked by: 14. Were all holding times able to be met? Yes No Checked by: 14. Were all holding times able to be met? Yes No Checked by: 15. Was client notified of all discrepancies with this order? Yes No NA Person Notified: Date: Date: Person By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: In Person 16. Additional remarks:	s note
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No Checked by: Additional remarks:	
(If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No NA ✓ Person Notified:	
15. Was client notified of all discrepancies with this order? Yes No NA ✓ Person Notified: Date: ✓	,·8
Person Notified: Date: By Whom: Via: Regarding: Client Instructions: Client Instructions: 10	
By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks:	
Regarding: Client Instructions:	
Client Instructions: 16. Additional remarks:	
16. Additional remarks:	
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By	

Page 1 of 1

		JKALORY	www.hallenvironmental.com 4901 Hawkins NE - Albuduerue, NM 87109	Eax 505-345-4107	Analysis Request	()(()1	bO ^{4[,]} 2 SWIS bCB, ² D \ WK	7 р Rd 1 28082 I 2012 21 2 1 (2 2 1 (5 2 1 2 1 (5 2 1 2 1 2 1 2 2 1 6 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2	۸۵۷ 0 ³ , 10 c q 56 d	15D(estici y 83 3 Met 3r, N OA) emi-	ВТЕХ / ТРН:80 8081 Ре В260 (V 8260 (V 8260 (V 7081 Сс Тоtal Сс											emarks:	Page	5
Turn-Around Time:	Standard C Rush		Trunkbe	Project #: Tel. 505		(1	е (802°	201 DRG		(including CF): 3,5 Ho, 7=3,7 e	9 1808	-001 ×	3×40m11602 201 . 007 X	3x40mLV04 1/2C/ - 003 X	X thousand Harlin - 004 X	ZYDOWLYDA HOCK - 005 X	3× generate Macly - 006 X	3-4bulba Hacly -007 X	7			Received by: Via: Date Time Remarks:	Received by: Via: Date Time	FT32 CONCIPC 6/6,170 9:00
Chain-of-Custody Record	Client: Ensplum LLC		Mailing Address: 206 5. Rip Grande Suite A	410	Phone #:	email or Fax#: 1 gumers Densdry way F	QA/QC Package:		ype)		Date Time Matrix Sample Name T	(a/5/2 8:05 W MW-8	(c/2/20 8:35 W MW-14 3	6/5/20 9:35 W MW-15 3	4/5/20 12:20 W MW - 7 3	6/5/20 10:25 1N MW - 13 3	ie/5/23 h:25 w WW -6 3	1/2/1 N/N N/ 02:21 02/21		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Date: Time: Relinquished by:	e: Time: Relinguished by:	112/2000 1821 / JANIET. 1 JANIE 1

5



December 03, 2020

Kyle Summers ENSOLUM 606 S Rio Grande Ste A Aztec, NM 87410 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2011C71

RE: Trunk 6C Kutz Wash

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 15 sample(s) on 11/25/2020 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

Analytical Report
Lab Order 2011C71

Date Reported: 12/3/2020

CLIENT: ENSOLUM Project: Trunk 6C Kutz Wash	Client Sample ID: MW-5 Collection Date: 11/24/2020 10:10:00 AM								
Lab ID: 2011C71-001	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	1.0	µg/L	1	11/30/2020 4:32:21 PM	B73678			
Toluene	ND	1.0	µg/L	1	11/30/2020 4:32:21 PM	B73678			
Ethylbenzene	ND	1.0	µg/L	1	11/30/2020 4:32:21 PM	B73678			
Xylenes, Total	ND	2.0	µg/L	1	11/30/2020 4:32:21 PM	B73678			
Surr: 4-Bromofluorobenzene	99.5 8	0-120	%Rec	1	11/30/2020 4:32:21 PM	B73678			

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

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

Page 1 of 18

Analytical Report
Lab Order 2011C71

Date Reported: 12/3/2020

CLIENT: ENSOLUM	Client Sample ID: MW-6							
Project: Trunk 6C Kutz Wash		Coll	ection Dat	e: 11	/24/2020 10:50:00 AM			
Lab ID: 2011C71-002	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 8021B: VOLATILES					Analyst	NSB		
D	ND	1.0	µg/L	1	11/30/2020 4:55:50 PM	D7 00 7 0		
Benzene		1.0	P9/⊏			B/36/8		
Benzene Toluene	ND	1.0	μg/L	1	11/30/2020 4:55:50 PM			
				1 1	11/30/2020 4:55:50 PM 11/30/2020 4:55:50 PM	B73678		
Toluene	ND	1.0	μg/L	-		B73678 B73678		

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

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

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Analytical Report
Lab Order 2011C71

Date Reported: 12/3/2020

CLIENT: ENSOLUM	Client Sample ID: MW-7									
Project: Trunk 6C Kutz Wash	Collection Date: 11/24/2020 11:20:00 AM									
Lab ID: 2011C71-003	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 AM									
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
EPA METHOD 8021B: VOLATILES Benzene	ND	1.0	µg/L	1	Analyst 11/30/2020 5:19:20 PM					
	ND ND	1.0 1.0	μg/L μg/L	1 1		B73678				
Benzene		-		1 1 1	11/30/2020 5:19:20 PM	B73678 B73678				
Benzene Toluene	ND	1.0	μg/L	-	11/30/2020 5:19:20 PM 11/30/2020 5:19:20 PM	B73678 B73678 B73678				

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

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

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Surr: 4-Bromofluorobenzene

Analytical R	eport
Lab Order 201	1C71
Date Reported:	12/3/2020

11/30/2020 5:42:50 PM B73678

CLIENT: ENSOLUM Client Sample ID: MW-13									
Project: Trunk 6C Kutz Wash	Collection Date: 11/24/2020 11:30:00 AM								
Lab ID: 2011C71-004	Matrix: AQUEOUSReceived Date: 11/25/2020 8:00:00 AM								
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch			
EPA METHOD 8021B: VOLATILES					Analys	: NSB			
Benzene	ND	1.0	µg/L	1	11/30/2020 5:42:50 PM	B73678			
Toluene	ND	1.0	µg/L	1	11/30/2020 5:42:50 PN	B73678			
Ethylbenzene	ND	1.0	µg/L	1	11/30/2020 5:42:50 PM	I B73678			
Xylenes, Total	ND	2.0	µg/L	1	11/30/2020 5:42:50 PN	B73678			

80-120

%Rec

1

99.6

Hall Environmental Analysis Laboratory, Inc.

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

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

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Analytical Report
Lab Order 2011C71

CLIENT: ENSOLUM	Client Sample ID: MW-15									
Project: Trunk 6C Kutz Wash	Collection Date: 11/24/2020 12:35:00 PM									
Lab ID: 2011C71-005	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	1.0	μg/L	1	11/30/2020 6:06:12 PM	B73678				
Toluene	ND	1.0	μg/L	1	11/30/2020 6:06:12 PM	B73678				
Ethylbenzene	ND	1.0	μg/L	1	11/30/2020 6:06:12 PM	B73678				
Xylenes, Total	15	2.0	μg/L	1	11/30/2020 6:06:12 PM	B73678				
Surr: 4-Bromofluorobenzene	109 8	0-120	%Rec	1	11/30/2020 6:06:12 PM	B73678				

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

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

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Analytical Report
Lab Order 2011C71

Date Reported: 12/3/2020

CLIENT: ENSOLUM	Client Sample ID: MW-14									
Project: Trunk 6C Kutz Wash	Collection Date: 11/24/2020 1:05:00 PM									
Lab ID: 2011C71-006	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 AM									
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	1.0	µg/L	1	11/30/2020 6:29:39 PM	B73678				
Toluene	ND	1.0	µg/L	1	11/30/2020 6:29:39 PM	B73678				
Ethylbenzene	ND	1.0	µg/L	1	11/30/2020 6:29:39 PM	B73678				
Xylenes, Total	ND	2.0	µg/L	1	11/30/2020 6:29:39 PM	B73678				
Surr: 4-Bromofluorobenzene	98.5 8	0-120	%Rec	1	11/30/2020 6:29:39 PM	B73678				

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

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

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Analytical Report
Lab Order 2011C71

Date Reported: 12/3/2020

CLIENT: ENSOLUM		Client	Sample I	D: M	W-8	
Project: Trunk 6C Kutz Wash	Collection Date: 11/24/2020 1:30:00 PM					
Lab ID: 2011C71-007	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 AM					
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	1.0	µg/L	1	11/30/2020 6:53:05 PM	B73678
Toluene	ND	1.0	µg/L	1	11/30/2020 6:53:05 PM	D7 00 7 0
Toldelle		1.0	m 9' =			B73678
Ethylbenzene	ND	1.0	µg/L	1	11/30/2020 6:53:05 PM	B73678 B73678
		-		1 1	11/30/2020 6:53:05 PM 11/30/2020 6:53:05 PM	

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

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

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Analytical Report
Lab Order 2011C71

Date Reported: 12/3/2020

CLIENT: ENSOLUM		Client	t Sample I	D: M	W-2	
Project: Trunk 6C Kutz Wash	Collection Date: 11/24/2020 2:05:00 PM					
Lab ID: 2011C71-008	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 AN				/25/2020 8:00:00 AM	
Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	1.0	µg/L	1	11/30/2020 7:16:38 PM	B73678
Toluene	ND	1.0	µg/L	1	11/30/2020 7:16:38 PM	B73678
Ethylbenzene	ND	1.0	µg/L	1	11/30/2020 7:16:38 PM	B73678
Ethylbenzene Xylenes, Total	ND ND	1.0 2.0	μg/L μg/L	1 1	11/30/2020 7:16:38 PM 11/30/2020 7:16:38 PM	

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

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

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Analytical Report
Lab Order 2011C71

CLIENT: ENSOLUM	Client Sample ID: MW-10					
Project: Trunk 6C Kutz Wash	Collection Date: 11/24/2020 2:10:00 PM					
Lab ID: 2011C71-009	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 AM					
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
EPA METHOD 8021B: VOLATILES Benzene	ND	1.0	µg/L	1	Analyst: 11/30/2020 7:40:07 PM	-
	ND ND	1.0 1.0	μg/L μg/L	1 1	,	B73678
Benzene		-			11/30/2020 7:40:07 PM	B73678 B73678
Benzene Toluene	ND	1.0	µg/L	1	11/30/2020 7:40:07 PM 11/30/2020 7:40:07 PM	B73678 B73678 B73678

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2011C71

Date Reported: 12/3/2020

12/1/2020 1:12:00 AM B73664

CLIENT:	ENSOLUM		Client Sample ID: MW-3					
Project:	Trunk 6C Kutz Wash		Collection Date: 11/24/2020 2:40:00 PM					
Lab ID:	2011C71-010	Matrix: AQUEOU	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 A					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA ME	THOD 8260: VOLATILES SH	ORT LIST				Analyst	CCM	
Benzene	9	ND	1.0	µg/L	1	12/1/2020 1:12:00 AM	B73664	
Toluene		ND	1.0	μg/L	1	12/1/2020 1:12:00 AM	B73664	
Ethylber	izene	ND	1.0	µg/L	1	12/1/2020 1:12:00 AM	B73664	
Xylenes.	, Total	ND	1.5	µg/L	1	12/1/2020 1:12:00 AM	B73664	
Surr:	1,2-Dichloroethane-d4	88.4	70-130	%Rec	1	12/1/2020 1:12:00 AM	B73664	
Surr:	4-Bromofluorobenzene	96.6	70-130	%Rec	1	12/1/2020 1:12:00 AM	B73664	
Surr:	Dibromofluoromethane	97.3	70-130	%Rec	1	12/1/2020 1:12:00 AM	B73664	

93.5

70-130

%Rec 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
- 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Toluene

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2011C71

12/1/2020 2:21:00 AM

B73664

B73664

B73664

B73664

B73664

B73664

B73664

Hall Environmental Analysis Laboratory, Inc.

Hall Environmental Analysis Laboratory, Inc.				Date Reported: 12/3/2020					
CLIENT:	ENSOLUM		Cli	ent Sample I	D: M	W-11			
Project:	Trunk 6C Kutz Wash	Collection Date: 11/24/2020 2:45:00 PM							
Lab ID:	2011C71-011	Matrix: AQUEOUS]	Received Dat	t e: 11	/25/2020 8:00:00 AM			
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA MET	HOD 8260: VOLATILES SHO	ORT LIST				Analys	t: CCM		
Benzene		ND	1.0	µg/L	1	12/1/2020 2:21:00 AM	B73664		

ND

ND

ND

90.2

96.9

99.6

92.6

1.0

1.0

1.5

70-130

70-130

70-130

70-130

µg/L

µg/L

µg/L

%Rec

%Rec

%Rec

%Rec

1

1

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2011C71

12/1/2020 2:44:00 AM B73664

Date Reported: 12/3/2020

%Rec 1

CLIENT:	ENSOLUM		Client Sample ID: MW-9					
Project:	Trunk 6C Kutz Wash		Collection Date: 11/24/2020 3:35:00 PM					
Lab ID:	2011C71-012	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 11/25/2020 8:00:00 Al					
Analyses	l .	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	THOD 8260: VOLATILES SH	ORT LIST				Analyst	ССМ	
Benzene	9	ND	1.0	µg/L	1	12/1/2020 2:44:00 AM	B73664	
Toluene		ND	1.0	μg/L	1	12/1/2020 2:44:00 AM	B73664	
Ethylber	izene	ND	1.0	μg/L	1	12/1/2020 2:44:00 AM	B73664	
Xylenes,	, Total	ND	1.5	µg/L	1	12/1/2020 2:44:00 AM	B73664	
Surr:	1,2-Dichloroethane-d4	89.5	70-130	%Rec	1	12/1/2020 2:44:00 AM	B73664	
				0(D		40/4/0000 0.44.00 AM	_	
Surr: 4	4-Bromofluorobenzene	97.3	70-130	%Rec	1	12/1/2020 2:44:00 AM	B73664	

94.6

70-130

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2011C71

Date Reported: 12/3/2020

12/1/2020 3:07:00 AM B73664

CLIENT	: ENSOLUM	Client Sample ID: MW-4						
Project:	Trunk 6C Kutz Wash		Collection Date: 11/24/2020 4:05:00 PM					
Lab ID:	2011C71-013	Matrix: AQUEOU	S	Received Dat	e: 11	/25/2020 8:00:00 AM		
Analyse	S	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA ME	THOD 8260: VOLATILES SH	ORT LIST				Analyst	ССМ	
Benzen	e	ND	1.0	µg/L	1	12/1/2020 3:07:00 AM	B73664	
Toluene		ND	1.0	µg/L	1	12/1/2020 3:07:00 AM	B73664	
Ethylbe	nzene	ND	1.0	µg/L	1	12/1/2020 3:07:00 AM	B73664	
Xylenes	, Total	ND	1.5	µg/L	1	12/1/2020 3:07:00 AM		
Ayleneo							B73664	
,	1,2-Dichloroethane-d4	90.8	70-130	%Rec	1	12/1/2020 3:07:00 AM	B73664 B73664	
Surr:	1,2-Dichloroethane-d4 4-Bromofluorobenzene	90.8 95.9	70-130 70-130	%Rec %Rec	1 1	12/1/2020 3:07:00 AM 12/1/2020 3:07:00 AM		

93.8

70-130

%Rec 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
- 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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2011C71

12/1/2020 3:30:00 AM B73664

Date Reported: 12/3/2020

CLIENT	: ENSOLUM		Client Sample ID: MW-17					
Project:	Trunk 6C Kutz Wash		Collection Date: 11/24/2020 4:30:00 PM					
Lab ID:	2011C71-014	Matrix: AQUEOUS	5	Received D	ate: 1	1/25/2020 8:00:00 AM		
Analyses	5	Result	RL	Qual Unit	s Dl	F Date Analyzed	Batch	
EPA ME	THOD 8260: VOLATILES SH	ORT LIST				Analyst	CCM	
Benzene	e	8.7	1.0	µg/L	1	12/1/2020 3:30:00 AM	B73664	
Toluene	•	ND	1.0	µg/L	1	12/1/2020 3:30:00 AM	B73664	
Ethylber	nzene	ND	1.0	µg/L	1	12/1/2020 3:30:00 AM	B73664	
Xylenes	, Total	ND	1.5	µg/L	1	12/1/2020 3:30:00 AM	B73664	
Surr:	1,2-Dichloroethane-d4	89.9	70-130	%Re	c 1	12/1/2020 3:30:00 AM	B73664	
Surr:	4-Bromofluorobenzene	97.5	70-130	%Re	c 1	12/1/2020 3:30:00 AM	B73664	
Surr	Dibromofluoromethane	100	70-130	%Re	<u> </u>	12/1/2020 3:30:00 AM	B73664	

94.5

70-130

%Rec 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
- S % Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL

Reporting Limit

Page 14 of 18

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011C71

Date Reported: 12/3/2020

20 12/1/2020 3:53:00 AM B73664

CLIENT:	ENSOLUM			Cl	ient Sa	ample II	D: MV	W-1	
Project:	Trunk 6C Kutz Wash			(Collect	ion Dat	e: 11/	24/2020 5:05:00 PM	
Lab ID:	2011C71-015	Matrix:	AQUE	DUS	Receiv	ved Dat	e: 11/	25/2020 8:00:00 AM	
Analyses		R	esult	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8260: VOLATILES SH	ORT LIST						Analyst	CCM
Benzene			730	20		µg/L	20	12/1/2020 3:53:00 AM	B73664
Toluene			290	20		µg/L	20	12/1/2020 3:53:00 AM	B73664
Ethylben	zene		61	20		µg/L	20	12/1/2020 3:53:00 AM	B73664
Xylenes,	Total		180	30		µg/L	20	12/1/2020 3:53:00 AM	B73664
Surr: 1	,2-Dichloroethane-d4		88.3	70-130		%Rec	20	12/1/2020 3:53:00 AM	B73664
Surr: 4	-Bromofluorobenzene		96.7	70-130		%Rec	20	12/1/2020 3:53:00 AM	B73664
Surr: E	Dibromofluoromethane		96.4	70-130		%Rec	20	12/1/2020 3:53:00 AM	B73664

94.5

70-130

%Rec

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

Qualifiers:

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- Н Holding times for preparation or analysis exceeded
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- в Analyte detected in the associated Method Blank
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- Р Sample pH Not In Range
- RL Reporting Limit

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WO#:	2011C71
	03-Dec-20

03-Dec-20

Client: E	NSOLUM												
Project: T	runk 6C Kutz Wa	ash											
Sample ID: mb1	Samp	Туре: М	BLK	TestCode: EPA Method 8021B: Volatiles									
Client ID: PBW	Bato	ch ID: B7	3678	F	RunNo: 7								
Prep Date:	Analysis	Analysis Date: 11/30/2020			SeqNo: 2	596795	Units: µg/L						
Analyte	Result	Result PQL SPK value S			SPK Ref Val %REC LowLimit			%RPD	RPDLimit	Qual			
Benzene	ND	1.0											
Toluene	ND	1.0											
Ethylbenzene	ND	1.0											
Xylenes, Total	ND	2.0											
Surr: 4-Bromofluorobenze	ene 20		20.00		98.2	80	120						
Sample ID: 100ng bte	x Ics Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles					
Client ID: LCSW	Bato	ch ID: B7	3678	F	RunNo: 7	3678							
Prep Date:	Analysis	Date: 1	1/30/2020	S	SeqNo: 2	596796	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	19	1.0	20.00	0	93.2	80	120						
Toluene	19	1.0	20.00	0	97.0	80	120						
Ethylbenzene	19	1.0	20.00	0	97.3	80	120						
Xylenes, Total	58	2.0	60.00	0	97.3	80	120						
Surr: 4-Bromofluorobenze	ene 20				102		120						

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 S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#:	2011C71
	02 D 10

03-Dec-20

	ISOLUM unk 6C K		sh											
Sample ID: 100ng lcs2	2	Samp	Type: LC	s	TestCode: EPA Method 8260: Volatiles Short List									
Client ID: LCSW		Batc	h ID: B7	3664	F	RunNo: 73664								
Prep Date:	A	Analysis [Date: 12	2/1/2020	S	SeqNo: 2	597691	Units: µg/L						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		21	1.0	20.00	0	105	70	130						
Toluene		20	1.0	20.00	0	99.4	70	130						
Surr: 1,2-Dichloroethane-de	4	9.0		10.00		90.1	70	130						
Surr: 4-Bromofluorobenzen	e	9.8		10.00		98.3	70	130						
Surr: Dibromofluoromethan	e	9.9		10.00		98.6	70	130						
Surr: Toluene-d8		9.3		10.00		92.7	70	130						
Sample ID: mb2		Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist				
Client ID: PBW		Batc	h ID: B7	3664	F	RunNo: 7 :	3664							
Prep Date:	A	Analysis [Date: 12	2/1/2020	S	SeqNo: 2	597692	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											
Xylenes, Total		ND	1.5											
Surr: 1,2-Dichloroethane-de	4	8.9		10.00		89.3	70	130						
Surr: 4-Bromofluorobenzen	e	9.7		10.00		96.5	70	130						
Surr: Dibromofluoromethan	e	9.8		10.00		98.3	70	130						
Surr: Toluene-d8		9.2		10.00		92.5	70	130						
Sample ID: 2011C71-0	10ams	Samp	Туре: М	3	TestCode: EPA Method 8260: Volatiles Short List									
Client ID: MW-3		Batc	h ID: B7	3664	F	RunNo: 7 :	3664							
Prep Date:	A	Analysis [Date: 12	2/1/2020	S	SeqNo: 2	597694	Units: µg/L						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		22	1.0	20.00	0	112	70	130						
Toluene		21	1.0	20.00	0	105	70	130						
Surr: 1,2-Dichloroethane-de	4	9.2		10.00		91.9	70	130						
Surr: 4-Bromofluorobenzen	e	9.7		10.00		97.1	70	130						
Surr: Dibromofluoromethan	e	9.8		10.00		98.1	70	130						
Surr: Toluene-d8		9.5		10.00		94.7	70	130						
Sample ID: 2011C71-0	10amsd	Samp	Гуре: М	SD	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist				
Client ID: MW-3		Batc	h ID: B7	3664	F	RunNo: 7	3664							
Prep Date:	A	Analysis [Date: 12	2/1/2020	S	SeqNo: 2	597695	Units: µg/L						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		21	1.0	20.00	0	105	70	130	6.28	20				
Toluene		20	1.0	20.00	0	101	70	130	4.48	20				

Qualifiers:

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range RL Reporting Limit

2011C71

03-Dec-20

WO#:

Client: Project:	ENSOLUI Trunk 6C		h								
Sample ID: 20	Sample ID: 2011C71-010amsd SampType: MSD TestCode: EPA Method 8260: Volatiles Short List										
Client ID: MV	N-3	Batch	ID: B	73664	F	RunNo:	73664				
Prep Date:		Analysis D	ate: 1	2/1/2020	S	SeqNo: 2	2597695	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.6		10.00		95.8	70	130	0	0	
Surr: Dibromofluoromethane	9.8		10.00		97.6	70	130	0	0	
Surr: Toluene-d8	9.4		10.00		94.1	70	130	0	0	

Qualifiers:

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- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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HALL ENVIRONMENT, ANALYSIS LABORATORY	AL <i>TEL: 505-345</i>	tental Analysis Labora 4901 Hawkin. Albuquerque, NM 83 -3975 FAX: 505-345-4 nts.hallenvironmental.	s NE 7109 Sam 4107	ple Log-In Check List
Client Name: ENSOLUM	Work Order Nu	mber: 2011C71		RcptNo: 1
Received By: Sean Livi	ngston 11/25/2020 8:00:0	00 AM	S-Lr	stan
Completed By: Desiree D Reviewed By: $S(\pi L)$	ominguez 11/25/2020 11:34 25/20	:44 AM	TP2	
Chain of Custody				
1. Is Chain of Custody comp	lete?	Yes 🖌	No 🗌	Not Present
2. How was the sample deliv	ered?	<u>Courier</u>		
Log In 3. Was an attempt made to o	cool the samples?	Yes 🔽	No 🗌	
4. Were all samples received	at a temperature of >0° C to 6.0°C	Yes 🗸	No 🗌	
5. Sample(s) in proper conta	iner(s)?	Yes 🗸	No 🗌	
5. Sufficient sample volume f	or indicated test(s)?	Yes 🔽	No 🗌	
7. Are samples (except VOA	and ONG) properly preserved?	Yes 🖌	No 🗌	
8. Was preservative added to	bottles?	Yes	No 🗹	NA 🗌
9. Received at least 1 vial wit	h headspace <1/4" for AQ VOA?	Yes 🗹	No 🗌	
0. Were any sample containe	ers received broken?	Yes	No 🗹	# of preserved
1. Does paperwork match bo (Note discrepancies on cha		Yes 🔽	No 🗌	bottles checked for pH: (<2 or >12 unless noted)
2. Are matrices correctly iden		Yes 🗹	No 🗌	Adjusted?
3. Is it clear what analyses w	ere requested?	Yes 🗹	No 🗌	
 Were all holding times able (If no, notify customer for a 		Yes 🗹	No 🗌	Checked by: JR ((25/2
pecial Handling (if app	olicable)		~	
15. Was client notified of all d	screpancies with this order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Dat	ie:		
By Whom:	Via	: eMail P	hone 🗌 Fax	In Person
Regarding:				
Client Instructions:				
6. Additional remarks:				
17. Cooler Information				
Cooler No Temp °C	Condition Seal Intact Seal No	Seal Date	Signed By	
1 1.7	Good Yes			

Page 1 of 1

Received by OCD: 8/11/2021 12:20:43 PM

INTAL NTAL NTAL NTAL NTAL NTAL	12:20:43 PM					Page 72 oj
ALL ENVIRONMENTALIALL ENVIRONMENTALINALYSIS LABORATORwww.hallenvironmental.comwww.hallenvironmental.comins NE - Albuquerque, NM 87109i5-3975 Fax 505-345-4107Analysis Request	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)					Time: Relinquished by: Via: Date Time Remarks: 18:45 SGL COUNTER II 25/20 8:00 Time: Relinquished by: Via: Date Time B; H fo En Shun
HALL ENVI ANALYSIS ANALYSIS www.hallenvironme 4901 Hawkins NE - Albuquer Tel. 505-345-3975 Fax 50 Analysis R	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals					Bill to
4901 H	BTEX / М <u>ТВЕ / ТМ</u> В'6 (8021) TPH:8015D(GRO / DRO / МRO) 8081 Pesticides/8082 PCB's				XXXX	Remarks:
te Masin	-5 -5 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10	-001	- 003	- 000 1000 1008 1008	-010	Date Time (1/25/2ວ ຊິ:ພວ Date Time
Time: BRUSH	Iger:	- HOLIZ	H2012 H2012 H2012	Hach	Hada Hada Hada	Via: Via:
Iurn-Around Iim Standard Project Name: Project #:	Project Manager: K. S. M. M. Sampler: L. M. M. On Ice: TYes # of Coolers: 1 Cooler Temp(Including CF): Cooler Temp(Including CF): Type and #		"Jx4 but LOR- 3x4 but LOR- 3x4 but LOR-	3x you way	3x40mLV0h 3x40mLV0h 3x40mLV0h	Received by: SGL C Received by:
Chain-of-Custody Record Ensolum, LLC 19 Address: 606 S. R. o Cyrende Blan Suited 240, NM 87410 e #:	Surversee Easolum. Com	WW-C MW-S	MIW-13 MIW-15	MIW-14 MIW-00 MIW-00	MW-10- MM-2- MM-11-WW	d by: d by:
Idress: 606 5.	Az Con	33	2 2 3	7	3333	Relinquished by: Relinquished by:
Chain- Client: Enso Mailing Address: 15/52/ Phone #:	Email or Fax#: QA/QC Package: Date Time	250	11/24/20 11:30 11/24/20 11:30	11/24/20 13:05 11/24/20 13:25	01:71 00/24/10 01:27/20 14:40 01:27/20 14:42	S

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Received by OC	CD: 8/11/20	211	2:20:43 P A	И											1	 	- P	age 73 of 7
HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.nallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	ysis Requ		(1.403 or 827(, NO ₂ , , AO	-VO 103 103 1315	lethd 8 Me 3r, <i>N</i> (AO)	EDB (<i>N</i> 8260 (<i>Y</i> 8260 (<i>Y</i> 8260 (<i>Y</i>											Bill to the Solution
	4901 H Tel. 5		PCB's PCB's				9 1808 9 1808				_	 	 	_		 rks:		v. Anv s
	,		(1208) e ¹					\times	X	X			+	+-		Remarks		oossibilit
Turn-Around Time:	Loi	05A124601	Project Manager: K_SummerS	Sampler: L. Daw ell On Ice: Ves Do	olers: {	Cooler Temp(including CF): 1. (+0.1 = 1. 7 (°C)	Container Preservative HEAL No. Type and # Type	Skyant Way Hally -013	ZYNAMINA HACL - OIY	Extendion Halls -015						I by: Via: Date Time	3	Time: Relinquished by: Received by: Via: Date Time Monthle Encodement If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Chain-of-Custody Record	606 SiR colomne Suite		KSimmer Ser ansolum. 122	□ Az Compliance			Date Time Matrix Sample Name	11/24/20 10:05 CV MW-4	1/24/ce 16:30 WW -17	Whythe 17:05 W NW-1						Time: Relinquished by:	20 18:45 / 24	Date: Time: Relinquished by:

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

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

District III

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

District IV

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

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

CONDITIONS

Action 41349

CONDITIONS									
Operator:	OGRID:								
Enterprise Field Services, LLC	241602								
PO Box 4324	Action Number:								
Houston, TX 77210	41349								
	Action Type:								
	[UE-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)								

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Groundwater Monitoring Report: Content satisfactory 1. Follow recommendations stated within 2020 Groundwater Monitoring Report. a. continue SA-GWM&S activities to evaluate the stability of COC concentrations in subsurface groundwater conduct additional site-specific aquifer characterization b. conduct additional site-specific aquifer characterization b. conduct additional site-specific aquifer characterization & testing to evaluate the options to remediate areas of GWQ exceedances c. submit a Stage 2 Abatement Plan once the Stage 1 Abatement Plan has been deemed administratively complete d. the suspension of monitoring and sampling activities of MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-13, MW-14, and MW-15 is approved.	12/28/2021