Enterprise Products

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

ENTERPRISE PRODUCTS OPERATING LLC

September 6, 2023

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

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

REVIEWED
By Mike Buchanan at 3:43 pm, Sep 14, 2023

Review of the 2021 GW Monitoring Report for Trunk 6C Pipeline--Kutz Wash Release:
Content Satisfactory
1. Continue semi-annual groundwater monitoring at the site.
2. As approved by NMOCD, suspension of sampling wells may commence: 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.
3. Submit the 2023 Annual Groundwater Report for the site no later than April 1, 2024.

Submittal1: ***2021 Groundwater Monitoring*** [Annual] ***Report*** (Ensolum, March 25, 2022)
Submittal2: ***2022 Groundwater Monitoring*** [Annual] ***Report*** (Ensolum, March 22, 2023)
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; Incident No: NJK1201237146

Dear Mr. Velez:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is pleased to provide the New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) with an electronic copy (uploaded to the Imaging website address above) of the above-referenced documents (*Submittal1* and *Submittal2*) that were prepared by *Ensolum, LLC* (Ensolum) and dated March 25, 2022 and March 22, 2023, respectively. The Submittals are associated with the September 22, 2011 discovery of a release of natural gas condensate that occurred from the Enterprise Trunk 6C pipeline at the above-referenced location (the "Site"). The information detailed in each Submittal documents Site-related groundwater monitoring and sampling (GWM&S) activities conducted between January 1 and December 31, 2021 (the "reporting period" for Submittal1) and between January 1 and December 31, 2022 (the "reporting period" for Submittal2). During the reporting period for each Submittal, two semi-annual groundwater monitoring and sampling (S-AGWM&S) events were conducted to evaluate the magnitude and extent of any constituents of concern (COCs) that remain at the Site as phase-separated hydrocarbon (PSH) and dissolved-phase hydrocarbon (DPH).

Based on the data presented in each Submittal, PSH has not been observed since September 2016 (MW-1) and the DPH plume remains delineated. And although COC concentrations still remain in excess of the applicable Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) (in MW-1 and MW-17), DPH/COC concentrations continue to be stable and/or declining.

Based on the results presented in the Submittal, Enterprise plans to: 1) continue conducting semi-annual GWM&S events, 2) suspend monitoring and sampling of monitoring wells MW-3 through MW-11 and MW-13 through MW-15 (as per NM OCD approval email dated December 28, 2021), and 3) conduct additional site-specific aquifer characterization and testing to evaluate the options to remediate areas of GQS exceedances. Once the *Stage 1 Abatement Plan* has been fully approved and implemented, Enterprise will prepare and submit a *Stage 2 Abatement Plan* for approval, or proceed "at-risk" with the removal of residual impacted soils to expedite natural attenuation (prior to the EMNRD OCD approval of the *Stage 1 Abatement Plan).*

Enterprise appreciates the New Mexico EMNRD OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments, or concerns, or need additional information regarding this Site, please feel free to contact me at (713) 381-8780, or via email at GEMiller@eprod.com.

Sincerely,

Gregory E. Miller, P.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: NMOCD, Aztec, NM - Mr. Nelson Velez < Nelson.Velez@state.nm.us>
NMOCD, Santa Fe, NM – Mr. Jim Griswold <Jim.Griswold@state.nm.us>
NMOCD, Santa Fe, NM – Mr. Brad Billings <Bradford.Billings@state.nm.us>
Ensolum, Houston, TX – Mr. Marc E. Gentry <MGentry@ensolum.com>

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Houston, Texas 77002-5227
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2021 GROUNDWATER MONITORING REPORT

Property:

Trunk 6C Kutz Wash Pipeline Release
Unit Letter K, S26 T28N R11W
San Juan County, New Mexico

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

March 25, 2022
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:

Landon Daniell
Staff Geologist

Kyle Summers
Senior Project Manager

2021 GROUNDWATER MONITORING REPORT EXECUTIVE SUMMARY

This report documents the 2021 groundwater monitoring activities conducted 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 Unit Letter K of Section 26, Township 28 North, Range 11 West, in San Juan County, New Mexico.

Since the discovery of a release of natural gas and associated liquids from the Trunk 6C pipeline on September 22, 2011, numerous investigation and corrective action activities have been conducted at the Site. Additionally, since September 2012, periodic groundwater monitoring has been performed at the Site. Based on analytical results, impact to soil and groundwater remains at the Site.

Groundwater sampling events were conducted by Ensolum during June 2021 and December 2021. The primary objective of these groundwater monitoring events was to further evaluate constituent of concern (COC) concentrations in groundwater and to monitor the generally declining COC concentrations over time 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 Water Quality Control Commission (WQCC) Groundwater Quality Standard (GQS) of 10 micrograms per liter (µg/L) in groundwater samples collected from monitoring well MW-1 during the June 2021 and December 2021 sampling events and monitoring MW-17 during the June 2021 sampling event. The groundwater samples collected from the remaining monitoring wells during the 2021 sampling events did not exhibit COC concentrations above the applicable WQCC GQSs (see footnote in report).
- The results from the 2021 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 Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD).
- Continue semi-annual groundwater monitoring at the Site.
- Suspend sampling of monitoring wells 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 as approved by the New Mexico EMNRD OCD in an email dated December 28, 2021.
- Implement additional Site-specific aquifer testing as described in the Stage 1 Abatement Plan.
- After the Stage 1 Abatement Plan has been fully implemented and approved, prepare a Stage 2 Abatement Plan (if required), 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.

ENSOLUM

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LIST OF APPENDICES

ENSOLUM

1.0 INTRODUCTION

This report documents the 2021 groundwater monitoring activities conducted 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	NJK1201237146
Location:	36.63202° North, 107.97400° West Unit Letter K, 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 release of an unknown volume of natural gas and associated liquids from the Trunk 6C pipeline was discovered at the Site. The pipeline was subsequently repaired. Animas Environmental Services, LLC (AES) collected one 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. The assessment included the collection of soil samples from four test holes (TP-1 through TP-4) that were advanced near the release area and groundwater samples from two of the test holes. Based on laboratory analytical results, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total petroleum hydrocarbons (TPH) were identified in soil samples collected from two 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* (AES, October 28, 2011).

During November 2011, AES advanced eight 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*, AES, February 20, 2012).

During September 2012, nine additional soil borings were advanced at the Site by AES to further evaluate the extent of dissolved phase COCs in groundwater. The soil borings were then 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 Report*, AES, October 31, 2012).

On October 16, 2013, AES advanced four 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*, AES, December 10, 2013, and *4th Quarter 2013 Groundwater*

Monitoring and Continued Investigation Report, AES, July 23, 2014).

During September 2016, Enterprise retained Apex TITAN, Inc., (Apex) to perform environmental site investigation activities at the Site to further evaluate and delineate COCs in soil and groundwater. Five soil borings were advanced and three 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)*, Apex, February 13, 2017).

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 (*Revised Trunk 6C Kutz Wash Pipeline Release Stage 1 Abatement Plan*, Ensolum, May 22, 2019). The New Mexico EMNRD OCD has not formally approved the plan at this time, and Enterprise has resumed semi-annual groundwater monitoring of the Site.

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 *Ground 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, the extent of the former excavation, excavation sample locations, 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 and monitor the generally declining COC concentrations over time at the Site.

2.0 GROUNDWATER MONITORING

2.1 Groundwater Sampling Program

Groundwater sampling events were conducted during June 2021 and December 2021 by Ensolum. The groundwater sampling program consisted of the collection of one 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.

[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.

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 inch diameter monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, one groundwater sample was collected from each monitoring well.
- Low-flow sampling and 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 casing diameter of monitoring wells MW-10, MW-11, and MW-13 is approximately one inch, 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 groundwater sample was collected from each monitoring well.
- The groundwater samples were collected in laboratory-supplied containers (pre-preserved with mercuric chloride ($HgCl_2$)), 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 the 2021 sampling events were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing United States Environmental Protection Agency (EPA) Method SW-846 #8021 or #8260.

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 averaged approximately 0.008 feet per foot (ft/ft) across the Site.

Groundwater elevation data collected during the June 2021 and December 2021 gauging events (as well as historical gauging data) are presented in **Table 2** (**Appendix B**). Groundwater gradient maps prepared for the June 2021 and December 2021 gauging events are included as **Figure 4A** and **Figure 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 2021 and December 2021 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 **Figure 5B** of **Appendix A**. Monitoring well MW-12 was not sampled in 2021 due to an obstructionin the well screen/casing.

June 2021

- The June 2021 analytical results for monitoring wells MW-1 and MW-17 indicate benzene concentrations of 750 micrograms per liter (µg/L) and 13 µg/L, respectively, which exceed the WQCC GQS of 10 µg/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 µg/L.[1]

- The June 2021 analytical result for monitoring well MW-1 indicates a toluene concentration of 540 µg/L, which is below the WQCC GQS of 750 µg/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 µg/L.[1]

- The June 2021 analytical results for monitoring wells MW-1 and MW-15 indicate ethylbenzene concentrations of 72 µg/L and 1.8 µg/L, respectively, which are below the WQCC GQS of 750 µg/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 µg/L.[1]

- The June 2021 analytical results for monitoring wells MW-1 and MW-15 indicate total xylenes concentrations of 230 µg/L and 29 µg/L, respectively, which are below the WQCC GQS of 620 µg/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 µg/L.[1]

- No data qualifier flags are associated with the June 2021 analytical results.

December 2021

- The December 2021 analytical result for monitoring well MW-1 indicates a benzene concentration of 430 µg/L, which exceeds the WQCC GQS of 10 µg/L.[1] The analytical result for monitoring well MW-17

[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.

indicates a benzene concentration of 4.3 µg/L, which is below the WQCC GQS of 10 µg/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 µg/L.[1]

- The December 2021 analytical result for monitoring well MW-1 indicates a toluene concentration of 100 µg/L, which is below the WQCC GQS of 750 µg/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 µg/L.[1]

- The December 2021 analytical results for monitoring wells MW-1 and MW-6 indicate an ethylbenzene concentration of 59 µg/L and 1.2 µg/L, respectively, which are below the WQCC GQS of 750 µg/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 µg/L.[1]

- The December 2021 analytical results for monitoring wells MW-1, MW-6, and MW-15 indicate total xylenes concentrations of 170 µg/L, 8.0 µg/L, and 11 µg/L, respectively, which are below the WQCC GQS of 620 µg/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 µg/L.[1]

- No data qualifier flags are associated with the December 2021 analytical results.

3.0 FINDINGS

Based on the evaluation of the analytical results from the 2021 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 groundwater samples collected from monitoring well MW-1 during the June 2021 and December 2021 sampling events, and monitoring MW-17 during the June 2021 sampling event. The groundwater samples collected from the remaining monitoring during the two 2021 sampling events did not exhibit COC concentrations above the applicable WQCC GQSs.[1]

- The results from the 2021 groundwater sampling events at the Site generally continue to demonstrate declining or stable COC concentrations in groundwater.

4.0 RECOMMENDATIONS

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.

[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.

- Suspend sampling of monitoring wells 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 as approved by the New Mexico EMNRD OCD in an email dated December 28, 2021.

- Implement additional Site-specific aquifer testing as described in the Stage 1 Abatement Plan.

- After the Stage 1 Abatement Plan has been fully implemented and approved, prepare a Stage 2 Abatement Plan (if required), 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.

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.

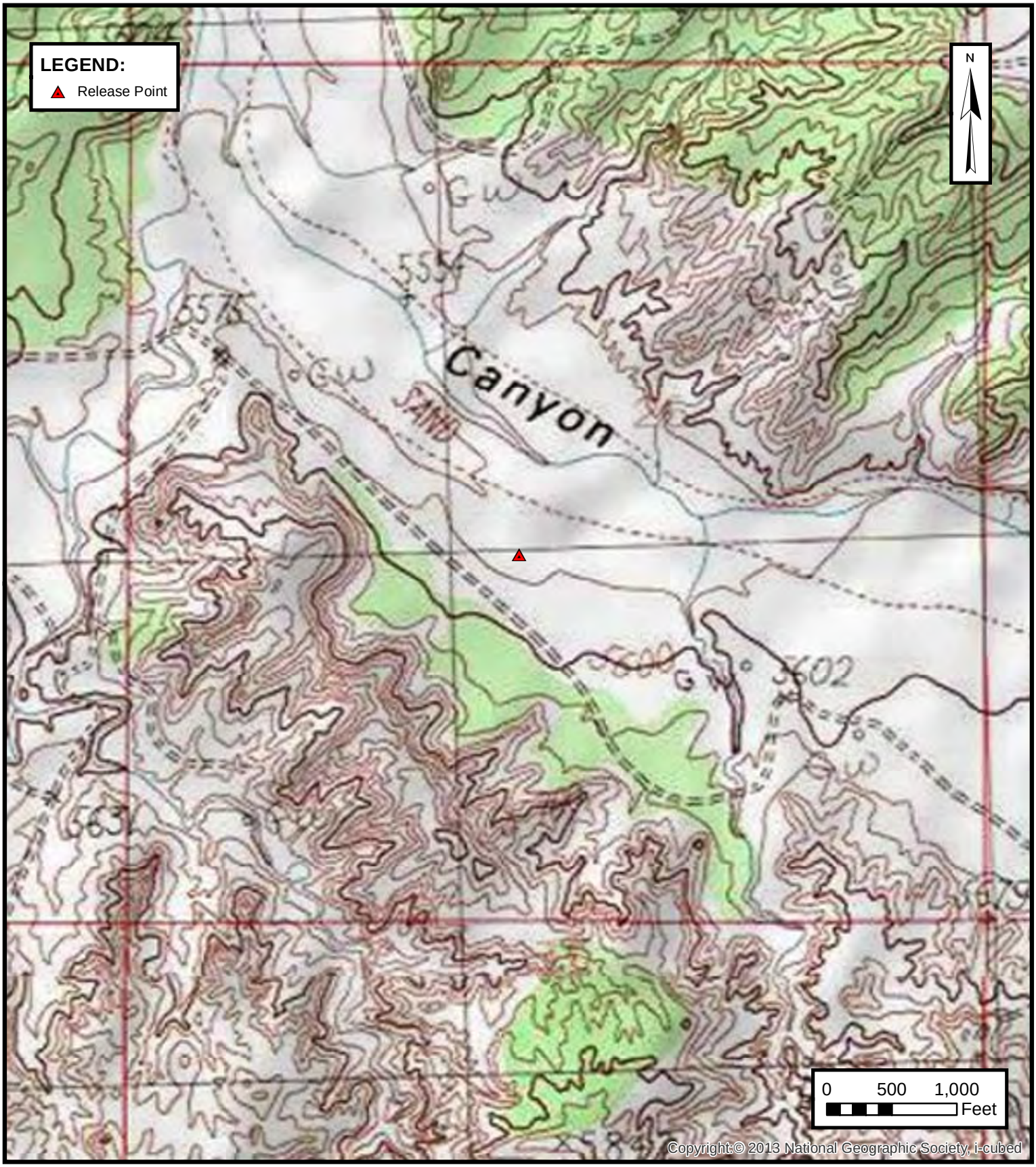
5.3 Reliance

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.

ENSOLUM

APPENDIX A

Figures



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Environmental & Hydrogeologic Consultants

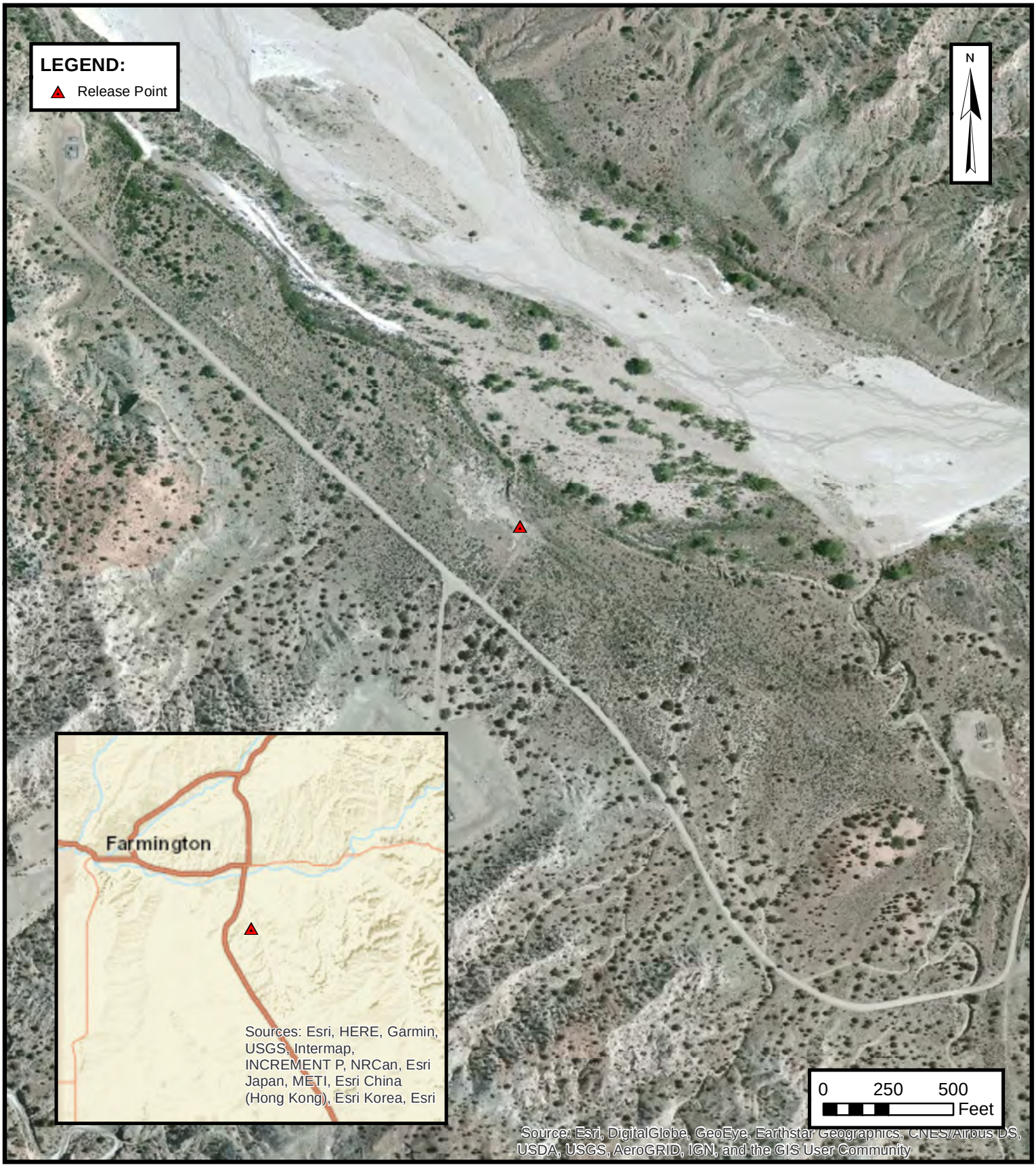
TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE

1



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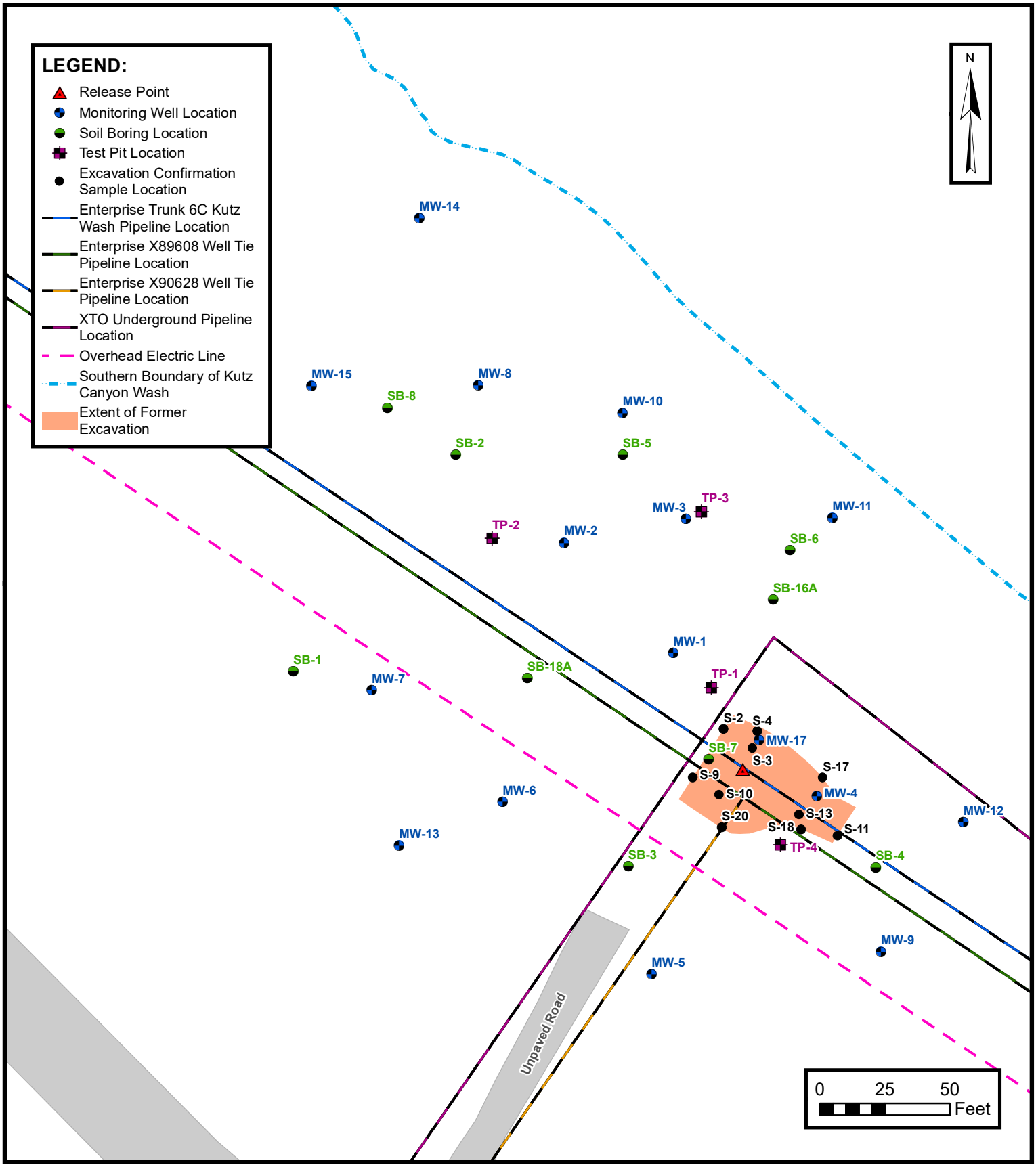
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
2



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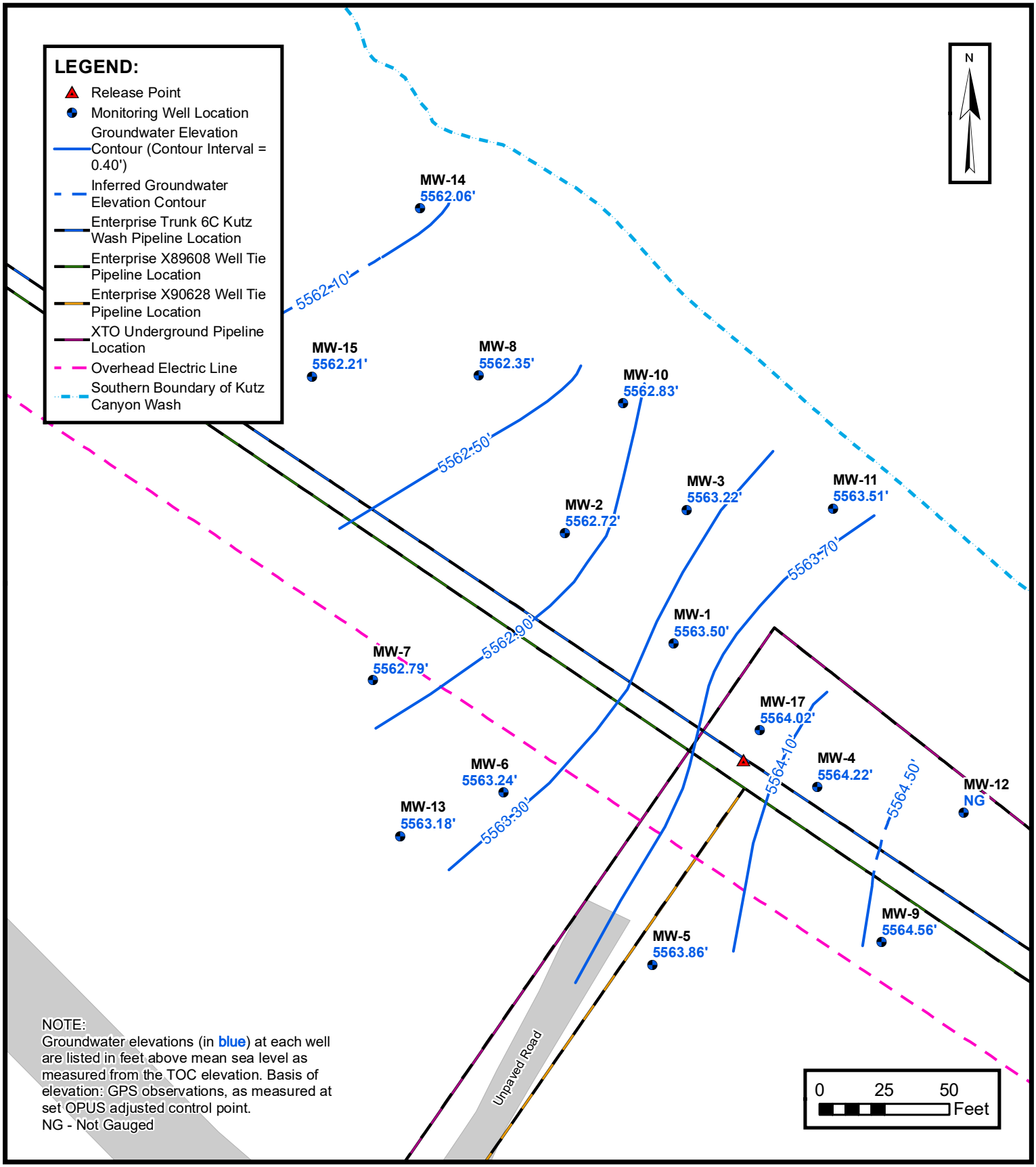
SITE MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
3



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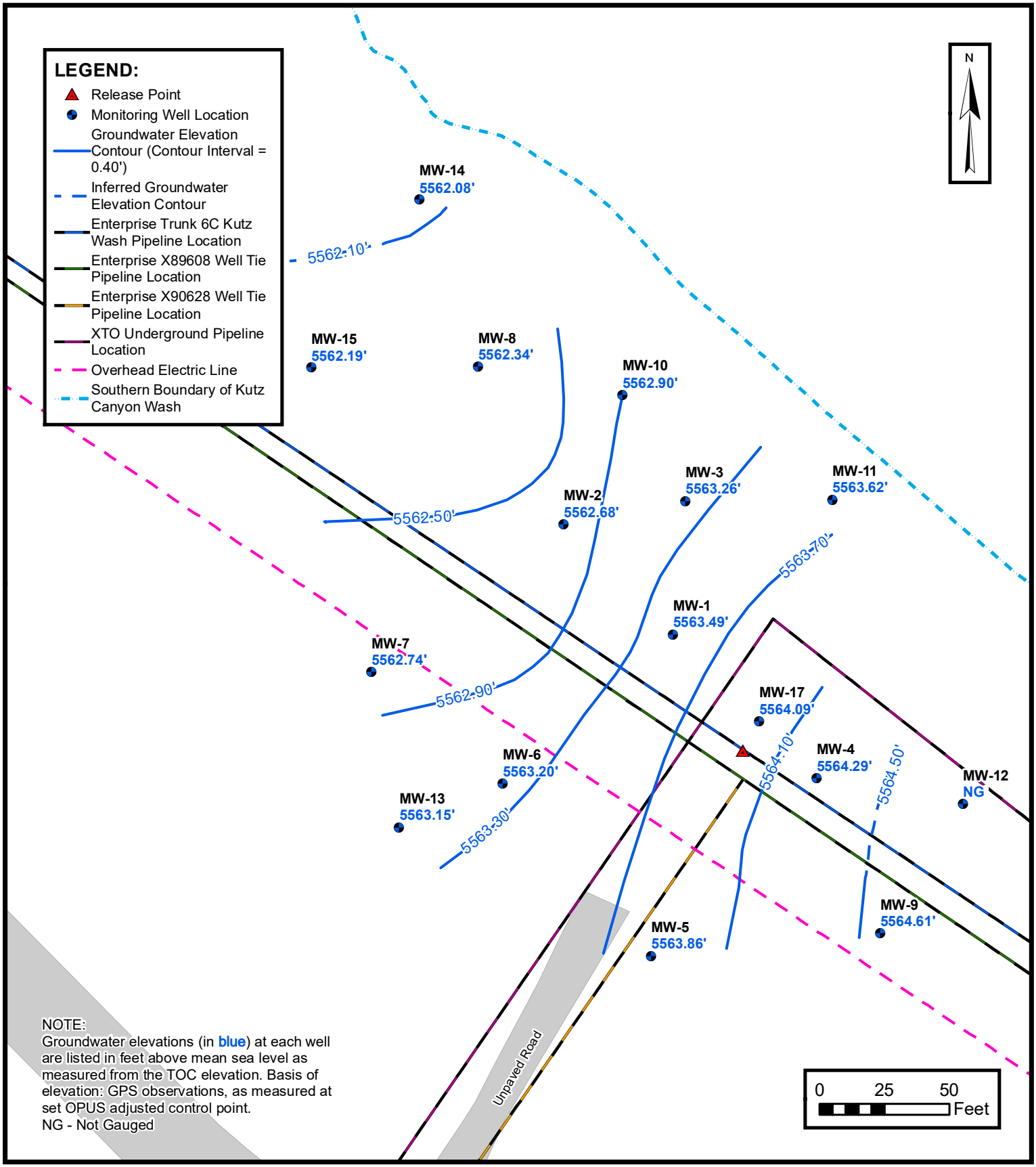
GROUNDWATER GRADIENT MAP (JUNE 2021)

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
4A



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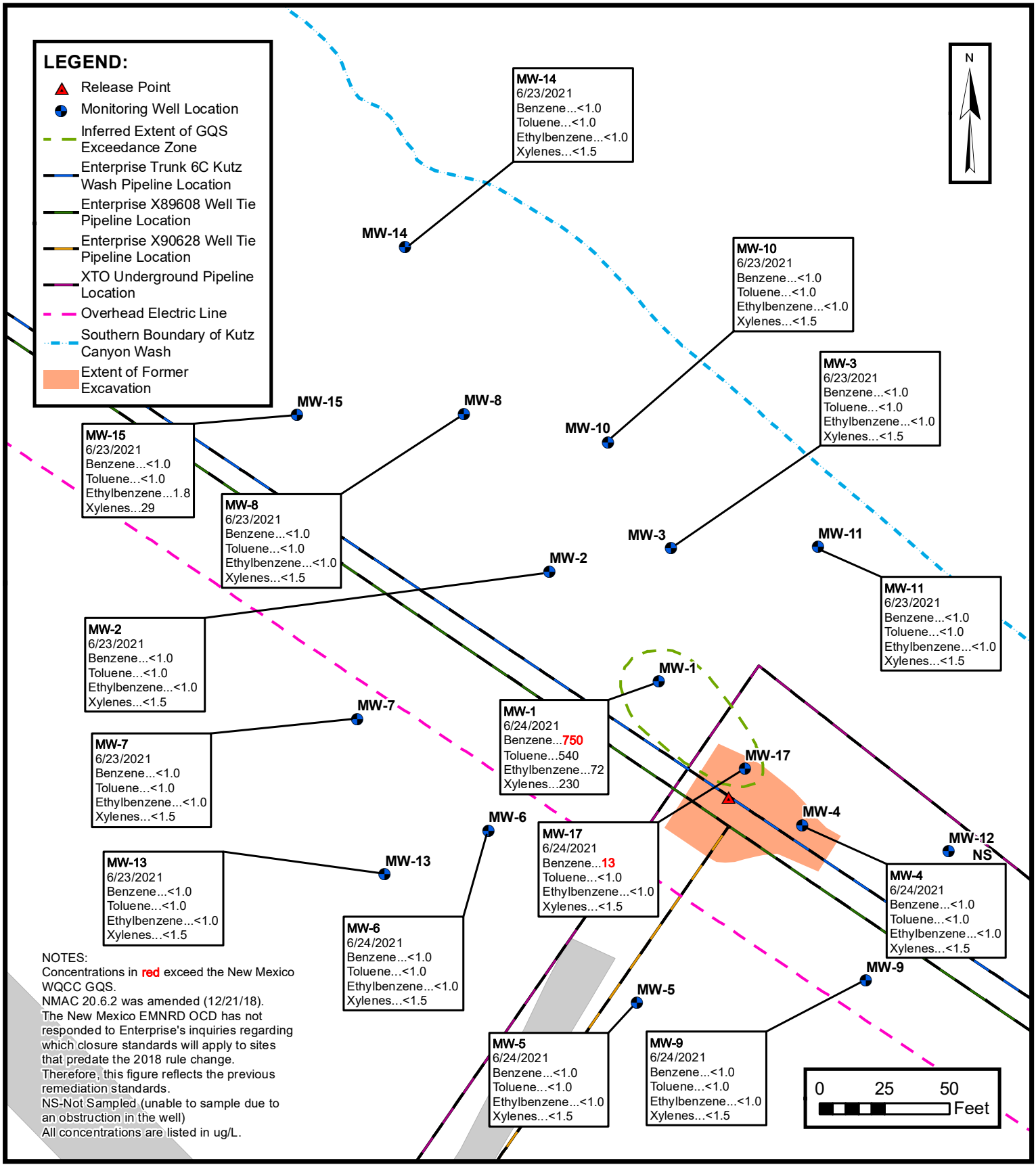
GROUNDWATER GRADIENT MAP (DECEMBER 2021)

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
4B



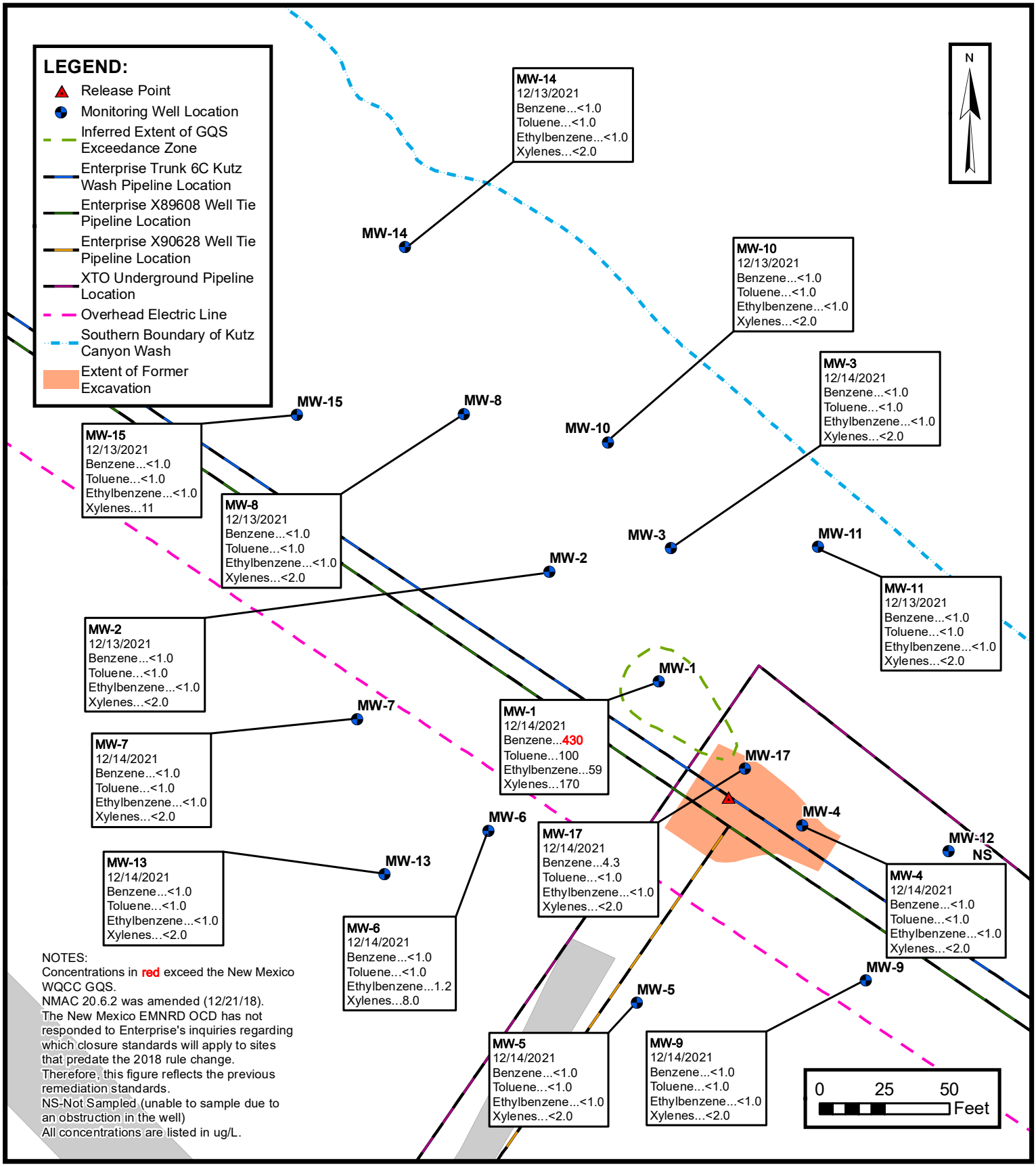
NOTES:
Concentrations in red exceed the New Mexico WQCC GQS.
NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.
NS-Not Sampled (unable to sample due to an obstruction in the well)
All concentrations are listed in ug/L.

ENSOLUM
Environmental & Hydrogeologic Consultants

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (JUNE 2021)
ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
5A



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Environmental & Hydrogeologic Consultants

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (DECEMBER 2021)
ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
5B

ENSOLUM

APPENDIX B

Tables

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-1	9.7.12	**2,200**	350	68	**650**
	12.20.12	**1,100**	250	37	180
	3.20.13	**NAPL**	**NAPL**	**NAPL**	**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	400
	6.15.15	**6,900**	**2,700**	170	**1,400**
	12.7.15	**3,900**	**1,400**	120	**870**
	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	350
	6.22.18	**3,800**	**2,400**	140	**740**
	12.14.18	**590**	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
	6.24.21	**750**	540	72	230
	12.14.21	**430**	100	59	170
MW-2	9.7.12	**270**	**1,100**	66	**1,800**
	12.20.12	**26**	49	5.1	250
	3.20.13	<5.0	<5.0	<5.0	67
	6.19.13	**NAPL**	**NAPL**	**NAPL**	**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	1.1	<1.0	44
	12.7.15	<1.0	<1.0	<1.0	13
	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	<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
	6.4.20	<1.0	<1.0	<1.0	<1.5
	11.24.20	<1.0	<1.0	<1.0	<2.0
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
MW-3	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	<2.0	<2.0	<4.0
	6.19.13	**780**	130	2.5	15
	9.18.13	**150**	28	<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
	12.7.15	<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	<1.0	<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
	6.4.20	<1.0	<1.0	<1.0	<1.5
	11.24.20	<1.0	<1.0	<1.0	<1.5
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-4	9.7.12	**18**	5.1	<2.0	<4.0
	12.20.12	<2.0	<2.0	<2.0	<4.0
	3.20.13	**290**	110	<2.0	15
	6.19.13	**600**	45	<10	<20
	9.18.13	**830**	39	<20	<30
	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
	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	<1.0	<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
	11.24.20	<1.0	<1.0	<1.0	<1.5
	6.24.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0
MW-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	<2.0	<2.0	<2.0	<4.0
	6.19.13	<1.0	<1.0	<1.0	<2.0
	9.17.13	<1.0	<1.0	<1.0	<1.5
	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
	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	<1.0	<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
	11.24.20	<1.0	<1.0	<1.0	<2.0
	6.24.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0
MW-6	9.7.12	<5.0	<5.0	260	**2,200**
	12.20.12	<5.0	<5.0	180	**1,200**
	3.20.13	<5.0	<5.0	120	**800**
	6.19.13	9.6	6.2	150	**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
	12.4.15	<2.5	<5.0	41	210
	6.02.16	<1.0	<1.0	16	70
	12.19.16	<1.0	<1.0	26	80
	6.27.17	<1.0	<1.0	<1.0	<2.0
	1.09.18	<1.0	<1.0	3.6	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
	6.24.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	1.2	8.0

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-7	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	<2.0	<2.0	<2.0	<4.0
	6.19.13	<1.0	<1.0	<1.0	<2.0
	9.17.13	<1.0	<1.0	<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
	12.7.15	<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	<1.0	<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
	8.21.19	<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	<1.5
	11.24.20	<1.0	<1.0	<1.0	<2.0
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0
MW-8	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
	12.7.15	1.3	<1.0	<1.0	53
	6.02.16	4.0	1.6	<1.0	5.1
	12.19.16	<1.0	<1.0	<1.0	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
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
MW-9	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	<1.0	<1.0	<1.5
	12.16.13	1.5	3.5	2.9	12
	3.14.14	<1.0	<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
	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	<1.0	<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
	11.24.20	<1.0	<1.0	<1.0	<1.5
	6.24.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-10	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	**17**	<1.0	2.0	<2.0
	6.03.16	**16**	<1.0	<1.0	<2.0
	12.20.16	4.8	<1.0	<1.0	<1.5
	6.27.17	3.4	<1.0	<1.0	<2.0
	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
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
MW-11	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
	6.28.17	Insufficient volume of 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
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
MW-12	12.16.13	3.3	3.8	<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	Casing Obstruction			
	12.4.15	Casing Obstruction			
	6.02.16	Casing Obstruction			
	12.20.16	Casing Obstruction			
	6.27.17	Casing Obstruction			
	1.10.18	Casing Obstruction			
	6.21.18	Casing Obstruction			
	12.13.18	Casing Obstruction			
	8.22.19	Casing Obstruction			
	1.10.20	Casing Obstruction			
	6.4.20	Casing Obstruction			
	11.24.20	Casing Obstruction			
	6.24.21	Casing Obstruction			
	12.15.21	Casing Obstruction			
MW-13	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
	12.20.16	<1.0	<1.0	<1.0	<1.5
	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	<1.5
	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
	6.5.20	<1.0	<1.0	<1.0	<1.5
	11.24.20	<1.0	<1.0	<1.0	<2.0
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-14	9.16.16	<1.0	<1.0	<1.0	<2.0
	12.20.16	<1.0	<1.0	<1.0	<1.5
	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	<1.5
	12.13.18	2.7	<1.0	<1.0	6.1
	8.21.19	<1.0	<1.0	<1.0	<2.0
	1.13.20	<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
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
MW-15	9.16.16	3.6	<1.0	4.1	43
	12.20.16	<1.0	<1.0	6.2	87
	6.27.17	4.1	<1.0	4.6	89
	1.10.18	4.7	<1.0	2.8	33
	6.21.18	6.5	<1.0	2.6	13
	12.13.18	1.2	<1.0	<1.0	<2.0
	8.21.19	<1.0	<1.0	<1.0	<2.0
	1.13.20	<1.0	<1.0	1.4	23
	6.5.20	<1.0	<1.0	4.7	49
	11.24.20	<1.0	<1.0	<1.0	15
	6.23.21	<1.0	<1.0	1.8	29
	12.13.21	<1.0	<1.0	<1.0	11
MW-17	9.16.16	**380**	**790**	33	**1,200**
	12.20.16	**200**	100	11	310
	6.28.17	**130**	<5.0	<5.0	**950**
	1.10.18	5.2	2.2	1.2	13
	6.22.18	**29**	<1.0	2.4	<1.5
	12.14.18	**29**	<1.0	1.8	<2.0
	8.22.19	4.1	<1.0	<1.0	<2.0
	1.13.20	2.2	<1.0	<1.0	<2.0
	6.5.20	**17**	<1.0	<1.0	<1.5
	11.24.20	8.7	<1.0	<1.0	<1.5
	6.24.21	**13**	<1.0	<1.0	<1.5
	12.14.21	4.3	<1.0	<1.0	<2.0

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.

µg/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
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-1*	9.7.12	ND	15.78	ND	27.43	12.43-27.43	5579.73	5563.95
	12.20.12	ND	15.69	ND				5564.04
	3.20.13	15.31	15.73	0.42				5564.31
	6.19.13	15.49	15.75	0.26				5564.17
	9.17.13	15.79	16.27	0.48				5563.81
	12.16.13	15.59	15.75	0.16				5564.10
	3.14.14	15.35	15.36	0.01				5564.38
	9.9.14	15.98	15.99	0.01				5563.75
	6.10.15	15.29	15.30	0.01				5564.44
	12.04.15	ND	15.81	ND				5563.92
	6.02.16	ND	15.41	ND				5564.32
	9.16.16	16.12	16.13	0.01			5579.43	5563.31
	12.19.16	ND	15.83	ND				5563.60
	6.27.17	ND	15.39	ND				5564.04
	1.09.18	ND	15.61	ND				5563.82
	6.21.18	ND	15.65	ND				5563.78
	12.13.18	ND	15.89	ND				5563.54
	8.20.19	ND	16.02	ND				5563.41
	1.07.20	ND	15.79	ND				5563.64
	6.4.20	ND	15.63	ND				5563.80
	11.24.20	ND	16.06	ND				5563.37
	6.23.21	ND	15.93	ND				5563.50
	12.13.21	ND	15.94	ND				5563.49
MW-2*	9.7.12	ND	16.29	ND	25.62	10.62-25.62	5579.39	5563.10
	12.20.12	ND	16.22	ND				5563.17
	3.20.13	ND	15.97	ND				5563.42
	6.19.13	15.96	16.40	0.44				5563.31
	9.17.13	16.40	16.54	0.14				5562.95
	12.16.13	16.14	16.22	0.08				5563.23
	3.14.14	ND	15.89	ND				5563.50
	9.9.14	ND	16.50	ND				5562.89
	6.10.15	ND	15.81	ND				5563.58
	12.04.15	ND	16.32	ND				5563.07
	6.02.16	ND	15.93	ND				5563.46
	9.16.16	ND	16.61	ND			5579.15	5562.54
	12.19.16	ND	16.35	ND				5562.80
	6.27.17	ND	15.95	ND				5563.20
	1.09.18	ND	16.13	ND				5563.02
	6.21.18	ND	16.19	ND				5562.96
	12.13.18	ND	16.45	ND				5562.70
	8.20.19	ND	16.52	ND				5562.63
	1.07.20	ND	16.35	ND				5562.80
	6.4.20	ND	16.16	ND				5562.99
	11.24.20	ND	16.62	ND				5562.53
	6.23.21	ND	16.43	ND				5562.72
	12.13.21	ND	16.47	ND				5562.68
MW-3*	9.7.12	ND	15.98	ND	25.57	10.57-25.57	5579.52	5563.54
	12.20.12	ND	15.79	ND				5563.73
	3.20.13	ND	15.50	ND				5564.02
	6.19.13	ND	15.66	ND				5563.86
	9.18.13	ND	15.96	ND				5563.56
	12.16.13	ND	15.70	ND				5563.82
	3.14.14	ND	15.39	ND				5564.13
	9.9.14	ND	16.10	ND				5563.42
	6.10.15	ND	15.28	ND				5564.24
	12.04.15	ND	15.87	ND				5563.65
	6.02.16	ND	15.47	ND				5564.05
	9.16.16	ND	16.24	ND			5579.24	5563.00
	12.19.16	ND	15.87	ND				5563.37
	6.27.17	ND	15.45	ND				5563.79
	1.09.18	ND	15.65	ND				5563.59
	6.21.18	ND	15.76	ND				5563.48
	12.13.18	ND	15.97	ND				5563.27
	8.20.19	ND	16.14	ND				5563.10
	1.07.20	ND	15.85	ND				5563.39
	6.4.20	ND	15.69	ND				5563.55
	11.24.20	ND	16.13	ND				5563.11
	6.23.21	ND	16.02	ND				5563.22
	12.13.21	ND	15.98	ND				5563.26

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TABLE 2
Trunk 6C Kutz Wash
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-4*	9.7.12	ND	15.59	ND	25.26	10.26-25.26	5580.36	5564.77
	12.20.12	ND	15.51	ND				5564.85
	3.20.13	ND	15.25	ND				5565.11
	6.19.13	ND	15.41	ND				5564.95
	9.18.13	ND	15.74	ND				5564.62
	12.16.13	ND	15.45	ND				5564.91
	3.14.14	ND	15.14	ND				5565.22
	9.9.14	ND	15.80	ND				5564.56
	6.10.15	ND	15.06	ND				5565.30
	12.04.15	ND	15.56	ND				5564.80
	6.02.16	ND	15.22	ND				5565.14
	9.16.16	ND	15.92	ND			5579.95	5564.03
	12.19.16	ND	15.55	ND				5564.40
	6.27.17	ND	15.22	ND				5564.73
	1.09.18	ND	15.34	ND				5564.61
	6.21.18	ND	15.45	ND				5564.50
	12.13.18	ND	15.60	ND				5564.35
	8.20.19	ND	15.80	ND				5564.15
	1.07.20	ND	15.50	ND				5564.45
	6.4.20	ND	15.41	ND				5564.54
	11.24.20	ND	15.80	ND				5564.15
	6.23.21	ND	15.73	ND				5564.22
	12.13.21	ND	15.66	ND				5564.29
MW-5*	9.7.12	ND	19.35	ND	25.58	10.58-25.58	5583.53	5564.18
	12.20.12	ND	19.28	ND				5564.25
	3.20.13	ND	19.10	ND				5564.43
	6.19.13	ND	19.21	ND				5564.32
	9.17.13	ND	19.55	ND				5563.98
	12.16.13	ND	19.28	ND				5564.25
	3.14.14	ND	19.03	ND				5564.50
	9.9.14	ND	19.58	ND				5563.95
	6.10.15	ND	18.98	ND				5564.55
	12.04.15	ND	19.41	ND				5564.12
	6.02.16	ND	19.08	ND				5564.45
	9.16.16	ND	19.69	ND			5583.41	5563.72
	12.19.16	ND	19.42	ND				5563.99
	6.27.17	ND	19.12	ND				5564.29
	1.09.18	ND	19.22	ND				5564.19
	6.21.18	ND	19.27	ND				5564.14
	12.13.18	ND	19.44	ND				5563.97
	8.20.19	ND	19.60	ND				5563.81
	1.07.20	ND	19.39	ND				5564.02
	6.4.20	ND	19.27	ND				5564.14
	11.24.20[A]	ND	20.66	ND				5562.75
	6.23.21	ND	19.55	ND				5563.86
	12.13.21	ND	19.55	ND				5563.86
MW-6*	9.7.12	ND	18.55	ND	25.50	10.50-25.50	5582.22	5563.67
	12.20.12	ND	18.49	ND				5563.73
	3.20.13	ND	18.27	ND				5563.95
	6.19.13	ND	18.38	ND				5563.84
	9.18.13	ND	18.74	ND				5563.48
	12.16.13	ND	18.46	ND				5563.76
	3.14.14	ND	18.21	ND				5564.01
	9.9.14	ND	18.75	ND				5563.47
	6.10.15	ND	18.16	ND				5564.06
	12.04.15	ND	18.60	ND				5563.62
	6.02.16	ND	18.25	ND				5563.97
	9.16.16	ND	18.86	ND			5581.98	5563.12
	12.19.16	ND	18.61	ND				5563.37
	6.27.17	ND	18.29	ND				5563.69
	1.09.18	ND	18.43	ND				5563.55
	6.21.18	ND	18.47	ND				5563.51
	12.13.18	ND	18.70	ND				5563.28
	8.20.19	ND	18.79	ND				5563.19
	1.07.20	ND	18.61	ND				5563.37
	6.4.20	ND	18.47	ND				5563.51
	11.24.20	ND	18.88	ND				5563.10
	6.23.21	ND	18.74	ND				5563.24
	12.13.21	ND	18.78	ND				5563.20

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TABLE 2
Trunk 6C Kutz Wash
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-7*	9.7.12	ND	19.03	ND	25.85	10.85-25.85	5582.24	5563.21
	12.20.12	ND	18.97	ND				5563.27
	3.20.13	ND	18.79	ND				5563.45
	6.19.13	ND	18.87	ND				5563.37
	9.17.13	ND	19.22	ND				5563.02
	12.16.13	ND	18.46	ND				5563.78
	3.14.14	ND	18.73	ND				5563.51
	9.9.14	ND	19.24	ND				5563.00
	6.10.15	ND	18.65	ND				5563.59
	12.04.15	ND	19.10	ND				5563.14
	6.02.16	ND	18.76	ND				5563.48
	9.16.16	ND	19.37	ND			5582.05	5562.68
	12.19.16	ND	19.13	ND				5562.92
	6.27.17	ND	18.80	ND				5563.25
	1.09.18	ND	18.95	ND				5563.10
	6.21.18	ND	18.98	ND				5563.07
	12.13.18	ND	19.22	ND				5562.83
	8.20.19	ND	19.31	ND				5562.74
	1.07.20	ND	19.14	ND				5562.91
	6.4.20	ND	19.00	ND				5563.05
	11.24.20	ND	19.39	ND				5562.66
	6.23.21	ND	19.26	ND				5562.79
	12.13.21	ND	19.31	ND				5562.74
MW-8*	9.7.12	ND	14.96	ND	24.78	9.78-24.78	5577.81	5562.85
	12.20.12	ND	14.87	ND				5562.94
	3.20.13	ND	14.63	ND				5563.18
	6.19.13	ND	14.74	ND				5563.07
	9.18.13	ND	15.08	ND				5562.73
	12.16.13	ND	14.81	ND				5563.00
	3.14.14	ND	14.53	ND				5563.28
	9.9.14[B]	15.12	15.25	0.13				5562.65
	6.10.15	ND	14.44	ND				5563.37
	12.04.15	ND	14.97	ND				5562.84
	6.02.16	ND	14.61	ND				5563.20
	9.16.16	ND	15.29	ND			5577.47	5562.18
	12.19.16	ND	15.00	ND				5562.47
	6.27.17	ND	14.62	ND				5562.85
	1.09.18	ND	14.80	ND				5562.67
	6.21.18	ND	14.88	ND				5562.59
	12.13.18	ND	15.11	ND				5562.36
	8.20.19	ND	15.22	ND				5562.25
	1.07.20	ND	15.00	ND				5562.47
	6.4.20	ND	14.84	ND				5562.63
	11.24.20	ND	15.26	ND				5562.21
	6.23.21	ND	15.12	ND				5562.35
	12.13.21	ND	15.13	ND				5562.34
MW-9*	9.7.12	ND	17.55	ND	25.78	10.78-25.78	5582.48	5564.93
	12.20.12	ND	17.47	ND				5565.01
	3.20.13	ND	17.28	ND				5565.20
	6.19.13	ND	17.42	ND				5565.06
	9.17.13	ND	17.74	ND				5564.74
	12.16.13	ND	17.48	ND				5565.00
	3.14.14	ND	17.21	ND				5565.27
	9.9.14	ND	17.83	ND				5564.65
	6.10.15	ND	17.18	ND				5565.30
	12.04.15	ND	17.61	ND				5564.87
	6.02.16	ND	17.30	ND				5565.18
	9.16.16	ND	17.94	ND			5582.35	5564.41
	12.19.16	ND	17.60	ND				5564.75
	6.27.17	ND	17.34	ND				5565.01
	1.09.18	ND	17.40	ND				5564.95
	6.21.18	ND	17.49	ND				5564.86
	12.13.18	ND	17.63	ND				5564.72
	8.20.19	ND	17.84	ND				5564.51
	1.07.20	ND	17.57	ND				5564.78
	6.4.20	ND	17.48	ND				5564.87
	11.24.20	ND	17.84	ND				5564.51
	6.23.21	ND	17.79	ND				5564.56
	12.13.21	ND	17.74	ND				5564.61

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TABLE 2
Trunk 6C Kutz Wash
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-10*	12.16.13	ND	16.93	ND	21.36	11.36-21.36	5577.80	5560.87
	3.14.14	ND	14.63	ND				5563.17
	9.9.14	ND	15.34	ND				5562.46
	6.10.15	ND	14.58	ND				5563.22
	12.04.15	ND	15.10	ND				5562.70
	6.02.16	ND	14.74	ND				5563.06
	9.16.16	ND	15.49	ND			5578.10	5562.61
	12.19.16	ND	15.12	ND				5562.98
	6.27.17	ND	14.73	ND				5563.37
	1.09.18	ND	14.90	ND				5563.20
	6.21.18	ND	15.05	ND				5563.05
	12.13.18	ND	15.21	ND				5562.89
	8.20.19	ND	15.38	ND				5562.72
	1.07.20	ND	15.09	ND				5563.01
	6.4.20	ND	14.96	ND				5563.14
	11.24.20	ND	15.38	ND				5562.72
	6.23.21	ND	15.27	ND				5562.83
	12.13.21	ND	15.20	ND				5562.90
MW-11*	12.16.13	ND	15.15	ND	21.25	11.25-21.25	5578.65	5563.50
	3.14.14	ND	14.82	ND				5563.83
	9.9.14	ND	15.63	ND				5563.02
	6.10.15	ND	14.76	ND				5563.89
	12.04.15	ND	15.35	ND				5563.30
	6.02.16	ND	14.98	ND				5563.67
	9.16.16	ND	15.74	ND			5579.04	5563.30
	12.19.16	ND	15.35	ND				5563.69
	6.27.17	ND	15.00	ND				5564.04
	1.09.18	ND	15.11	ND				5563.93
	6.21.18	ND	15.28	ND				5563.76
	12.13.18	ND	15.45	ND				5563.59
	8.20.19	ND	15.66	ND				5563.38
	1.07.20	ND	15.32	ND				5563.72
	6.4.20	ND	15.16	ND				5563.88
	11.24.20	ND	15.60	ND				5563.44
	6.23.21	ND	15.53	ND				5563.51
	12.13.21	ND	15.42	ND				5563.62
MW-12*	12.16.13	ND	15.54	ND	21.36	11.36-21.36	5579.99	5564.45
	3.14.14	ND	15.27	ND				5564.72
	9.9.14	ND	15.96	ND				5564.03
	6.10.15	ND	15.22	ND				5564.77
	12.04.15[C]	NG						NG
	6.02.16[C]	NG						NG
	9.16.16[C]	NG					5580.28	NG
	12.19.16[C]	NG						NG
	6.27.17[C]	NG						NG
	1.09.18[C]	NG						NG
	6.21.18[C]	NG						NG
	12.13.18[C]	NG						NG
	8.20.19[C]	NG						NG
	1.07.20[C]	NG						NG
	6.4.20[C]	NG						NG
	11.24.20[C]	NG						NG
	6.23.21[C]	NG						NG
	12.13.21[C]	NG						NG
MW-13*	12.16.13	ND	19.88	ND	25.26	15.26-25.26	5583.03	5563.15
	3.14.14	ND	19.63	ND				5563.40
	9.9.14	ND	20.18	ND				5562.85
	6.10.15	ND	19.57	ND				5563.46
	12.04.15	ND	20.01	ND				5563.02
	6.02.16	ND	19.67	ND				5563.36
	9.16.16	ND	20.27	ND			5583.34	5563.07
	12.19.16	ND	20.03	ND				5563.31
	6.27.17	ND	19.74	ND				5563.60
	1.09.18	ND	19.85	ND				5563.49
	6.21.18	ND	19.89	ND				5563.45
	12.13.18	ND	20.13	ND				5563.21
	8.20.19	ND	20.22	ND				5563.12
	1.07.20	ND	20.02	ND				5563.32
	6.4.20	ND	19.89	ND				5563.45
	11.24.20	ND	20.28	ND				5563.06
	6.23.21	ND	20.16	ND				5563.18
	12.14.21	ND	20.19	ND				5563.15

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TABLE 2
Trunk 6C Kutz Wash
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	ND	14.48	ND	23.01	13.01-23.01	5576.39	5561.91
	12.19.16	ND	14.18	ND				5562.21
	6.27.17	ND	13.83	ND				5562.56
	1.09.18	ND	13.99	ND				5562.40
	6.21.18	ND	14.10	ND				5562.29
	12.13.18	ND	14.33	ND				5562.06
	8.20.19	ND	14.43	ND				5561.96
	1.07.20	ND	14.21	ND				5562.18
	6.4.20	ND	14.05	ND				5562.34
	11.24.20	ND	14.44	ND				5561.95
	6.23.21	ND	14.33	ND				5562.06
	12.13.21	ND	14.31	ND				5562.08
MW-15	9.16.16	ND	16.75	ND	23.15	13.15-23.15	5578.83	5562.08
	12.19.16	ND	16.48	ND				5562.35
	6.27.17	ND	16.12	ND				5562.71
	1.09.18	ND	16.30	ND				5562.53
	6.21.18	ND	16.36	ND				5562.47
	12.13.18	ND	16.60	ND				5562.23
	8.20.19	ND	16.70	ND				5562.13
	1.07.20	ND	16.50	ND				5562.33
	6.4.20	ND	16.35	ND				5562.48
	11.24.20	ND	16.75	ND				5562.08
	6.23.21	ND	16.62	ND				5562.21
	12.13.21	ND	16.64	ND				5562.19
MW-17	9.16.16	ND	16.02	ND	22.95	12.95-22.95	5579.86	5563.84
	12.19.16	ND	15.68	ND				5564.18
	6.27.17	ND	15.30	ND				5564.56
	1.09.18	ND	15.45	ND				5564.41
	6.21.18	ND	15.55	ND				5564.31
	12.13.18	ND	15.72	ND				5564.14
	8.20.19	ND	15.91	ND				5563.95
	1.07.20	ND	15.62	ND				5564.24
	6.4.20	ND	15.51	ND				5564.35
	11.24.20	ND	15.90	ND				5563.96
	6.23.21	ND	15.84	ND				5564.02
	12.13.21	ND	15.77	ND				5564.09

BTOC - below top of casing
AMSL - above mean sea level
TOC - top of casing
NG - well not gauged

* - The monitoring wells were resurveyed in 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.

[A] - Suspected misgauge
[B] - Field personnel recorded the presence of NAPL utilizing an interface probe, but the product was not visually verified.
[C] - Monitoring well MW-12 was not sampled during the sampling event due to an obstructed well screen/casing.

ENSOLUM

APPENDIX C

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 02, 2021

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

RE: Trunk 6C OrderNo.: 2106C73

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/24/2021 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2106C73**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Lab Order:** 2106C73
Project: Trunk 6C

Lab ID: 2106C73-001 **Collection Date:** 6/23/2021 10:35:00 AM
Client Sample ID: MW-14 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/29/2021 7:22:00 PM	SL7944
Toluene	ND	1.0		µg/L	1	6/29/2021 7:22:00 PM	SL7944
Ethylbenzene	ND	1.0		µg/L	1	6/29/2021 7:22:00 PM	SL7944
Xylenes, Total	ND	1.5		µg/L	1	6/29/2021 7:22:00 PM	SL7944
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/29/2021 7:22:00 PM	SL7944
Surr: Dibromofluoromethane	108	70-130		%Rec	1	6/29/2021 7:22:00 PM	SL7944
Surr: Toluene-d8	95.4	70-130		%Rec	1	6/29/2021 7:22:00 PM	SL7944

Lab ID: 2106C73-002 **Collection Date:** 6/23/2021 11:15:00 AM
Client Sample ID: MW-15 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/29/2021 7:45:00 PM	SL7944
Toluene	ND	1.0		µg/L	1	6/29/2021 7:45:00 PM	SL7944
Ethylbenzene	1.8	1.0		µg/L	1	6/29/2021 7:45:00 PM	SL7944
Xylenes, Total	29	1.5		µg/L	1	6/29/2021 7:45:00 PM	SL7944
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	6/29/2021 7:45:00 PM	SL7944
Surr: Dibromofluoromethane	104	70-130		%Rec	1	6/29/2021 7:45:00 PM	SL7944
Surr: Toluene-d8	96.0	70-130		%Rec	1	6/29/2021 7:45:00 PM	SL7944

Lab ID: 2106C73-003 **Collection Date:** 6/23/2021 11:45:00 AM
Client Sample ID: MW-8 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/29/2021 8:08:00 PM	SL7944
Toluene	ND	1.0		µg/L	1	6/29/2021 8:08:00 PM	SL7944
Ethylbenzene	ND	1.0		µg/L	1	6/29/2021 8:08:00 PM	SL7944
Xylenes, Total	ND	1.5		µg/L	1	6/29/2021 8:08:00 PM	SL7944
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	6/29/2021 8:08:00 PM	SL7944
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/29/2021 8:08:00 PM	SL7944
Surr: Toluene-d8	93.9	70-130		%Rec	1	6/29/2021 8:08:00 PM	SL7944

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

Analytical Report
Lab Order: **2106C73**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Lab Order:** 2106C73
Project: Trunk 6C

Lab ID: 2106C73-004 **Collection Date:** 6/23/2021 12:20:00 PM
Client Sample ID: MW-2 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/29/2021 8:31:00 PM	SL7944
Toluene	ND	1.0		µg/L	1	6/29/2021 8:31:00 PM	SL7944
Ethylbenzene	ND	1.0		µg/L	1	6/29/2021 8:31:00 PM	SL7944
Xylenes, Total	ND	1.5		µg/L	1	6/29/2021 8:31:00 PM	SL7944
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	6/29/2021 8:31:00 PM	SL7944
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/29/2021 8:31:00 PM	SL7944
Surr: Toluene-d8	94.0	70-130		%Rec	1	6/29/2021 8:31:00 PM	SL7944

Lab ID: 2106C73-005 **Collection Date:** 6/23/2021 12:50:00 PM
Client Sample ID: MW-3 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/29/2021 8:54:00 PM	SL7944
Toluene	ND	1.0		µg/L	1	6/29/2021 8:54:00 PM	SL7944
Ethylbenzene	ND	1.0		µg/L	1	6/29/2021 8:54:00 PM	SL7944
Xylenes, Total	ND	1.5		µg/L	1	6/29/2021 8:54:00 PM	SL7944
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/29/2021 8:54:00 PM	SL7944
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/29/2021 8:54:00 PM	SL7944
Surr: Toluene-d8	95.5	70-130		%Rec	1	6/29/2021 8:54:00 PM	SL7944

Lab ID: 2106C73-006 **Collection Date:** 6/23/2021 1:45:00 PM
Client Sample ID: MW-7 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/29/2021 9:17:00 PM	SL7944
Toluene	ND	1.0		µg/L	1	6/29/2021 9:17:00 PM	SL7944
Ethylbenzene	ND	1.0		µg/L	1	6/29/2021 9:17:00 PM	SL7944
Xylenes, Total	ND	1.5		µg/L	1	6/29/2021 9:17:00 PM	SL7944
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	6/29/2021 9:17:00 PM	SL7944
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/29/2021 9:17:00 PM	SL7944
Surr: Toluene-d8	95.7	70-130		%Rec	1	6/29/2021 9:17:00 PM	SL7944

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

Analytical Report
Lab Order: **2106C73**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Lab Order:** 2106C73
Project: Trunk 6C

Lab ID: 2106C73-007 **Collection Date:** 6/23/2021 2:10:00 PM
Client Sample ID: MW-10 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/29/2021 9:40:00 PM	SL7944
Toluene	ND	1.0		µg/L	1	6/29/2021 9:40:00 PM	SL7944
Ethylbenzene	ND	1.0		µg/L	1	6/29/2021 9:40:00 PM	SL7944
Xylenes, Total	ND	1.5		µg/L	1	6/29/2021 9:40:00 PM	SL7944
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	6/29/2021 9:40:00 PM	SL7944
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/29/2021 9:40:00 PM	SL7944
Surr: Toluene-d8	94.2	70-130		%Rec	1	6/29/2021 9:40:00 PM	SL7944

Lab ID: 2106C73-008 **Collection Date:** 6/23/2021 2:30:00 PM
Client Sample ID: MW-11 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/29/2021 10:03:00 PM	SL7944
Toluene	ND	1.0		µg/L	1	6/29/2021 10:03:00 PM	SL7944
Ethylbenzene	ND	1.0		µg/L	1	6/29/2021 10:03:00 PM	SL7944
Xylenes, Total	ND	1.5		µg/L	1	6/29/2021 10:03:00 PM	SL7944
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	6/29/2021 10:03:00 PM	SL7944
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/29/2021 10:03:00 PM	SL7944
Surr: Toluene-d8	93.9	70-130		%Rec	1	6/29/2021 10:03:00 PM	SL7944

Lab ID: 2106C73-009 **Collection Date:** 6/23/2021 2:50:00 PM
Client Sample ID: MW-13 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/29/2021 10:26:00 PM	SL7944
Toluene	ND	1.0		µg/L	1	6/29/2021 10:26:00 PM	SL7944
Ethylbenzene	ND	1.0		µg/L	1	6/29/2021 10:26:00 PM	SL7944
Xylenes, Total	ND	1.5		µg/L	1	6/29/2021 10:26:00 PM	SL7944
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/29/2021 10:26:00 PM	SL7944
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/29/2021 10:26:00 PM	SL7944
Surr: Toluene-d8	94.1	70-130		%Rec	1	6/29/2021 10:26:00 PM	SL7944

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106C73**
02-Jul-21

Client: ENSOLUM
Project: Trunk 6C

Sample ID: **100ng 8260 lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL79440** RunNo: **79440**
Prep Date: Analysis Date: **6/29/2021** SeqNo: **2792518** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	20	1.0	20.00	0	98.7	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.5	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.5		10.00		95.3	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL79440** RunNo: **79440**
Prep Date: Analysis Date: **6/29/2021** SeqNo: **2792519** 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	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.3		10.00		92.9	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: **2106C73** RcptNo: **1**

Received By: **Juan Rojas** **6/24/2021 7:50:00 AM**

Completed By: **Cheyenne Cason** **6/24/2021 9:34:18 AM**

Reviewed By: SPA 6.24.21

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

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 ☐	
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?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: T.C. 6.24.21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Trunk 6C

Project #: 05A1226011

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☐ Yes ☐ No

Sample Temperature: 2.3 0222 1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2106C73	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
6/23/21	10:35	W	MW-14	$HgCl_2$ ↔ 3x40mL VOA		001	X															
6/23/21	11:15	W	MW-15	3x40mL VOA	$HgCl_2$	002	X															
6/23/21	11:45	W	MW-8	3x40mL VOA	$HgCl_2$	003	X															
6/23/21	12:20	W	MW-2	3x40mL VOA	$HgCl_2$	004	X															
6/23/21	12:50	W	MW-3	3x40mL VOA	$HgCl_2$	005	X															
6/23/21	13:45	W	MW-7	3x40mL VOA	$HgCl_2$	006	X															
6/23/21	14:10	W	MW-10	3x40mL VOA	$HgCl_2$	007	X															
6/23/21	14:30	W	MW-11	3x40mL VOA	$HgCl_2$	008	X															
6/23/21	14:50	W	MW-13	3x40mL VOA	$HgCl_2$	009	X															

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/23/21	1545			6/23/21	1545
Date:	Time:	Relinquished by:	Received by:	Date	Time
6/23	1600		courier	6/24/21	7:50

Remarks: Bill to Ensolum

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 06, 2021

Kyle Summers

ENSOLUM
606 S Rio Grande Ste A
Aztec, NM 87410
TEL:
FAX:

RE: Trunk 6-C OrderNo.: 2106D63

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/25/2021 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2106D63**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-6
Project: Trunk 6-C
Collection Date: 6/24/2021 8:20:00 AM
Lab ID: 2106D63-001 **Matrix:** AQUEOUS **Received Date:** 6/25/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/1/2021 3:46:00 AM	R79476
Toluene	ND	1.0		µg/L	1	7/1/2021 3:46:00 AM	R79476
Ethylbenzene	ND	1.0		µg/L	1	7/1/2021 3:46:00 AM	R79476
Xylenes, Total	ND	1.5		µg/L	1	7/1/2021 3:46:00 AM	R79476
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%Rec	1	7/1/2021 3:46:00 AM	R79476
Surr: Dibromofluoromethane	90.8	70-130		%Rec	1	7/1/2021 3:46:00 AM	R79476
Surr: Toluene-d8	95.4	70-130		%Rec	1	7/1/2021 3:46:00 AM	R79476

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

Qualifiers:

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

Analytical Report
Lab Order **2106D63**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-5
Project: Trunk 6-C
Collection Date: 6/24/2021 8:50:00 AM
Lab ID: 2106D63-002 **Matrix:** AQUEOUS **Received Date:** 6/25/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/1/2021 4:09:00 AM	R79476
Toluene	ND	1.0		µg/L	1	7/1/2021 4:09:00 AM	R79476
Ethylbenzene	ND	1.0		µg/L	1	7/1/2021 4:09:00 AM	R79476
Xylenes, Total	ND	1.5		µg/L	1	7/1/2021 4:09:00 AM	R79476
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	7/1/2021 4:09:00 AM	R79476
Surr: Dibromofluoromethane	92.5	70-130		%Rec	1	7/1/2021 4:09:00 AM	R79476
Surr: Toluene-d8	93.6	70-130		%Rec	1	7/1/2021 4:09:00 AM	R79476

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

Qualifiers:

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

Analytical Report
Lab Order **2106D63**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-9
Project: Trunk 6-C
Collection Date: 6/24/2021 9:25:00 AM
Lab ID: 2106D63-003 **Matrix:** AQUEOUS **Received Date:** 6/25/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/1/2021 4:32:00 AM	R79476
Toluene	ND	1.0		µg/L	1	7/1/2021 4:32:00 AM	R79476
Ethylbenzene	ND	1.0		µg/L	1	7/1/2021 4:32:00 AM	R79476
Xylenes, Total	ND	1.5		µg/L	1	7/1/2021 4:32:00 AM	R79476
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%Rec	1	7/1/2021 4:32:00 AM	R79476
Surr: Dibromofluoromethane	90.5	70-130		%Rec	1	7/1/2021 4:32:00 AM	R79476
Surr: Toluene-d8	95.2	70-130		%Rec	1	7/1/2021 4:32:00 AM	R79476

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

Qualifiers:

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

Analytical Report
Lab Order **2106D63**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-4
Project: Trunk 6-C
Collection Date: 6/24/2021 9:55:00 AM
Lab ID: 2106D63-004
Matrix: AQUEOUS
Received Date: 6/25/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/1/2021 4:55:00 AM	R79476
Toluene	ND	1.0		µg/L	1	7/1/2021 4:55:00 AM	R79476
Ethylbenzene	ND	1.0		µg/L	1	7/1/2021 4:55:00 AM	R79476
Xylenes, Total	ND	1.5		µg/L	1	7/1/2021 4:55:00 AM	R79476
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	7/1/2021 4:55:00 AM	R79476
Surr: Dibromofluoromethane	91.4	70-130		%Rec	1	7/1/2021 4:55:00 AM	R79476
Surr: Toluene-d8	93.9	70-130		%Rec	1	7/1/2021 4:55:00 AM	R79476

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

Qualifiers:

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

Analytical Report
Lab Order **2106D63**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-17
Project: Trunk 6-C
Collection Date: 6/24/2021 10:30:00 AM
Lab ID: 2106D63-005 **Matrix:** AQUEOUS **Received Date:** 6/25/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	13	1.0		µg/L	1	7/1/2021 5:18:00 AM	R79476
Toluene	ND	1.0		µg/L	1	7/1/2021 5:18:00 AM	R79476
Ethylbenzene	ND	1.0		µg/L	1	7/1/2021 5:18:00 AM	R79476
Xylenes, Total	ND	1.5		µg/L	1	7/1/2021 5:18:00 AM	R79476
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	7/1/2021 5:18:00 AM	R79476
Surr: Dibromofluoromethane	91.7	70-130		%Rec	1	7/1/2021 5:18:00 AM	R79476
Surr: Toluene-d8	94.8	70-130		%Rec	1	7/1/2021 5:18:00 AM	R79476

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

Qualifiers:

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

Analytical Report
Lab Order **2106D63**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-1
Project: Trunk 6-C
Collection Date: 6/24/2021 11:05:00 AM
Lab ID: 2106D63-006
Matrix: AQUEOUS
Received Date: 6/25/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	750	20		µg/L	20	7/1/2021 5:42:00 AM	R79476
Toluene	540	20		µg/L	20	7/1/2021 5:42:00 AM	R79476
Ethylbenzene	72	2.0		µg/L	2	7/1/2021 6:05:00 AM	R79476
Xylenes, Total	230	3.0		µg/L	2	7/1/2021 6:05:00 AM	R79476
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%Rec	2	7/1/2021 6:05:00 AM	R79476
Surr: Dibromofluoromethane	90.4	70-130		%Rec	2	7/1/2021 6:05:00 AM	R79476
Surr: Toluene-d8	96.8	70-130		%Rec	2	7/1/2021 6:05:00 AM	R79476

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106D63**

06-Jul-21

Client: ENSOLUM

Project: Trunk 6-C

Sample ID: **100ng 8260 lcs2** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **LCSW** Batch ID: **R79476** RunNo: **79476**

Prep Date: Analysis Date: **7/1/2021** SeqNo: **2795331** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	70	130			
Toluene	19	1.0	20.00	0	96.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.7	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.2	70	130			
Surr: Dibromofluoromethane	9.0		10.00		90.5	70	130			
Surr: Toluene-d8	9.4		10.00		93.8	70	130			

Sample ID: **MB 2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **PBW** Batch ID: **R79476** RunNo: **79476**

Prep Date: Analysis Date: **7/1/2021** SeqNo: **2795332** 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	9.7		10.00		97.4	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.2	70	130			
Surr: Dibromofluoromethane	9.3		10.00		92.6	70	130			
Surr: Toluene-d8	9.3		10.00		92.7	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: **2106D63** RcptNo: **1**

Received By: **Juan Rojas** **6/25/2021 7:00:00 AM** Juan Rojas

Completed By: **Sean Livingston** **6/25/2021 9:10:51 AM** Sean Livingston

Reviewed By: JR 6/25/21

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

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 ☐	
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?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

IO 6.25.21

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

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

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A Aztec NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Trunk 6C

Project #: 05A1226011

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

Sample Temperature: 0.1-0=0.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2106063	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
6/24/21	8:20	W	MW-6	3x40mL VOA	$HgCl_2$	001	X															
6/24/21	8:50	W	MW-5	3x40mL VOA	$HgCl_2$	002	X															
6/24/21	9:25	W	MW-9	3x40mL VOA	$HgCl_2$	003	X															
6/24/21	9:55	W	MW-4	3x40mL VOA	$HgCl_2$	004	X															
6/24/21	10:30	W	MW-17	3x40mL VOA	$HgCl_2$	005	X															
6/24/21	11:05	W	MW-1	3x40mL VOA	$HgCl_2$	006	X															

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/24/21	1530			6/24/21	1530
Date:	Time:	Relinquished by:	Received by:	Date	Time
			Courier	6/25/21	7100

Remarks: Bill to Ensolum

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 21, 2021

Kyle Summers

ENSOLUM
606 S Rio Grande Ste A
Aztec, NM 87410
TEL:
FAX:

RE: Trunk 6C OrderNo.: 2112847

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/14/2021 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2112847**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-15
Project: Trunk 6C **Collection Date:** 12/13/2021 12:20:00 PM
Lab ID: 2112847-001 **Matrix:** AQUEOUS **Received Date:** 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/16/2021 4:22:44 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 4:22:44 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 4:22:44 PM	B84607
Xylenes, Total	11	2.0		µg/L	1	12/16/2021 4:22:44 PM	B84607
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/16/2021 4:22:44 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112847**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-14
Project: Trunk 6C
Collection Date: 12/13/2021 12:55:00 PM
Lab ID: 2112847-002 **Matrix:** AQUEOUS **Received Date:** 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/16/2021 4:46:13 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 4:46:13 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 4:46:13 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 4:46:13 PM	B84607
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	12/16/2021 4:46:13 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112847**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-8
Project: Trunk 6C
Collection Date: 12/13/2021 1:25:00 PM
Lab ID: 2112847-003 **Matrix:** AQUEOUS **Received Date:** 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/16/2021 6:20:11 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 6:20:11 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 6:20:11 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 6:20:11 PM	B84607
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/16/2021 6:20:11 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112847**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-2
Project: Trunk 6C
Collection Date: 12/13/2021 1:50:00 PM
Lab ID: 2112847-004
Matrix: AQUEOUS
Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/16/2021 6:43:35 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 6:43:35 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 6:43:35 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 6:43:35 PM	B84607
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	12/16/2021 6:43:35 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112847**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-10
Project: Trunk 6C
Collection Date: 12/13/2021 2:00:00 PM
Lab ID: 2112847-005 **Matrix:** AQUEOUS **Received Date:** 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/16/2021 7:07:04 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 7:07:04 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 7:07:04 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 7:07:04 PM	B84607
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	12/16/2021 7:07:04 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112847**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-11
Project: Trunk 6C
Collection Date: 12/13/2021 2:20:00 PM
Lab ID: 2112847-006
Matrix: AQUEOUS
Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/16/2021 7:30:32 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 7:30:32 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 7:30:32 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 7:30:32 PM	B84607
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	12/16/2021 7:30:32 PM	B84607

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112847**

21-Dec-21

Client: ENSOLUM

Project: Trunk 6C

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B84607**	RunNo: **84607**
Prep Date:	Analysis Date: **12/16/2021**	SeqNo: **2974198** 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	2.0								
Surr: 4-Bromofluorobenzene	18		20.00		91.9	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B84607**	RunNo: **84607**
Prep Date:	Analysis Date: **12/16/2021**	SeqNo: **2974199** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.4	80	120			
Toluene	19	1.0	20.00	0	93.6	80	120			
Ethylbenzene	18	1.0	20.00	0	92.5	80	120			
Xylenes, Total	55	2.0	60.00	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		96.2	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM | Work Order Number: 2112847 | RcptNo: 1

Received By: **Desiree Dominguez** 12/14/2021 8:10:00 AM DD

Completed By: **Sean Livingston** 12/14/2021 9:34:27 AM SL

Reviewed By: KPG 12/14/21

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

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 ☐	
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?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: CM 12/14/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A Aztec, NM 87410

Phone #:

email or Fax#: Ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Trunk 6C

Project #: 05A122601 11

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.5 +0.0 = 0.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2112847	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/13/21	12:20	W	MW-15	3x 40mL VOA	$HgCl_2$	001	X									
12/13/21	12:55	W	MW-14	3x 40mL VOA	$HgCl_2$	002	X									
12/13/21	13:25	W	MW-8	3x 40mL VOA	$HgCl_2$	003	X									
12/13/21	13:50	W	MW-2	3x 40mL VOA	$HgCl_2$	004	X									
12/13/21	14:00	W	MW-10	3x 40mL VOA	$HgCl_2$	005	X									
12/13/21	14:20	W	MW-11	3x 40mL VOA	$HgCl_2$	006	X									

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/13/21	1603			Walk	12/13/21	1603
12/13/21	1802			courier	12/14/21	8:10

Remarks: Bill to Ensolum

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 22, 2021

Kyle Summers

ENSOLUM
606 S Rio Grande Ste A
Aztec, NM 87410
TEL:
FAX:

RE: Trunk 6C OrderNo.: 2112926

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 12/15/2021 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2112926**
Date Reported: **12/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-7
Project: Trunk 6C
Collection Date: 12/14/2021 9:20:00 AM
Lab ID: 2112926-001 **Matrix:** AQUEOUS **Received Date:** 12/15/2021 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	12/16/2021 7:54:00 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 7:54:00 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 7:54:00 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 7:54:00 PM	B84607
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	12/16/2021 7:54:00 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112926**
Date Reported: **12/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-6
Project: Trunk 6C
Collection Date: 12/14/2021 10:05:00 AM
Lab ID: 2112926-002
Matrix: AQUEOUS
Received Date: 12/15/2021 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	12/16/2021 8:17:26 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 8:17:26 PM	B84607
Ethylbenzene	1.2	1.0		µg/L	1	12/16/2021 8:17:26 PM	B84607
Xylenes, Total	8.0	2.0		µg/L	1	12/16/2021 8:17:26 PM	B84607
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/16/2021 8:17:26 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112926**
Date Reported: **12/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-13
Project: Trunk 6C
Collection Date: 12/14/2021 11:05:00 AM
Lab ID: 2112926-003
Matrix: AQUEOUS
Received Date: 12/15/2021 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	12/16/2021 8:40:50 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 8:40:50 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 8:40:50 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 8:40:50 PM	B84607
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	12/16/2021 8:40:50 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112926**
Date Reported: **12/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-5
Project: Trunk 6C
Collection Date: 12/14/2021 11:35:00 AM
Lab ID: 2112926-004 **Matrix:** AQUEOUS **Received Date:** 12/15/2021 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	12/16/2021 9:04:16 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 9:04:16 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 9:04:16 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 9:04:16 PM	B84607
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	12/16/2021 9:04:16 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112926**
Date Reported: **12/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-9
Project: Trunk 6C
Collection Date: 12/14/2021 12:30:00 PM
Lab ID: 2112926-005 **Matrix:** AQUEOUS **Received Date:** 12/15/2021 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	12/16/2021 9:27:35 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 9:27:35 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 9:27:35 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 9:27:35 PM	B84607
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	12/16/2021 9:27:35 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112926**
Date Reported: **12/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-4
Project: Trunk 6C
Collection Date: 12/14/2021 1:05:00 PM
Lab ID: 2112926-006
Matrix: AQUEOUS
Received Date: 12/15/2021 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	12/16/2021 9:50:54 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 9:50:54 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 9:50:54 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 9:50:54 PM	B84607
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	12/16/2021 9:50:54 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112926**
Date Reported: **12/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-3
Project: Trunk 6C
Collection Date: 12/14/2021 1:40:00 PM
Lab ID: 2112926-007 **Matrix:** AQUEOUS **Received Date:** 12/15/2021 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	12/16/2021 11:47:12 PM	B84607
Toluene	ND	1.0		µg/L	1	12/16/2021 11:47:12 PM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/16/2021 11:47:12 PM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/16/2021 11:47:12 PM	B84607
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	12/16/2021 11:47:12 PM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112926**
Date Reported: **12/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-17
Project: Trunk 6C
Collection Date: 12/14/2021 2:15:00 PM
Lab ID: 2112926-008
Matrix: AQUEOUS
Received Date: 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	4.3	1.0		µg/L	1	12/17/2021 12:10:25 AM	B84607
Toluene	ND	1.0		µg/L	1	12/17/2021 12:10:25 AM	B84607
Ethylbenzene	ND	1.0		µg/L	1	12/17/2021 12:10:25 AM	B84607
Xylenes, Total	ND	2.0		µg/L	1	12/17/2021 12:10:25 AM	B84607
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	12/17/2021 12:10:25 AM	B84607

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

Qualifiers:

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

Analytical Report
Lab Order **2112926**
Date Reported: **12/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-1
Project: Trunk 6C
Collection Date: 12/14/2021 2:45:00 PM
Lab ID: 2112926-009
Matrix: AQUEOUS
Received Date: 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	430	10		µg/L	10	12/17/2021 12:33:37 AM	Z84607
Toluene	100	10		µg/L	10	12/17/2021 12:33:37 AM	Z84607
Ethylbenzene	59	10		µg/L	10	12/17/2021 12:33:37 AM	Z84607
Xylenes, Total	170	20		µg/L	10	12/17/2021 12:33:37 AM	Z84607
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	10	12/17/2021 12:33:37 AM	Z84607

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112926**

22-Dec-21

Client: ENSOLUM

Project: Trunk 6C

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B84607**	RunNo: **84607**
Prep Date:	Analysis Date: **12/16/2021**	SeqNo: **2974198** 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	2.0								
Surr: 4-Bromofluorobenzene	18		20.00		91.9	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B84607**	RunNo: **84607**
Prep Date:	Analysis Date: **12/16/2021**	SeqNo: **2974199** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.4	80	120			
Toluene	19	1.0	20.00	0	93.6	80	120			
Ethylbenzene	18	1.0	20.00	0	92.5	80	120			
Xylenes, Total	55	2.0	60.00	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		96.2	70	130			

Sample ID: **mb-II**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **Z84607**	RunNo: **84607**
Prep Date:	Analysis Date: **12/16/2021**	SeqNo: **2974221** 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	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		96.4	70	130			

Sample ID: **100ng btex lcs-II**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **Z84607**	RunNo: **84607**
Prep Date:	Analysis Date: **12/16/2021**	SeqNo: **2974222** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.3	80	120			
Toluene	19	1.0	20.00	0	95.9	80	120			
Ethylbenzene	19	1.0	20.00	0	95.4	80	120			
Xylenes, Total	57	2.0	60.00	0	95.4	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		97.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112926**
22-Dec-21

Client: ENSOLUM
Project: Trunk 6C

Sample ID: **2112926-009ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1** Batch ID: **Z84607** RunNo: **84607**
Prep Date: Analysis Date: **12/17/2021** SeqNo: **2974224** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	640	10	200.0	434.9	103	80	120			
Toluene	300	10	200.0	102.5	97.1	80	120			
Ethylbenzene	250	10	200.0	58.64	94.3	80	120			
Xylenes, Total	720	20	600.0	170.0	92.2	80	120			
Surr: 4-Bromofluorobenzene	190		200.0		97.2	70	130			

Sample ID: **2112926-009amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1** Batch ID: **Z84607** RunNo: **84607**
Prep Date: Analysis Date: **12/17/2021** SeqNo: **2974225** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	640	10	200.0	434.9	103	80	120	0.197	20	
Toluene	300	10	200.0	102.5	97.5	80	120	0.330	20	
Ethylbenzene	250	10	200.0	58.64	96.7	80	120	1.91	20	
Xylenes, Total	730	20	600.0	170.0	92.6	80	120	0.340	20	
Surr: 4-Bromofluorobenzene	200		200.0		98.1	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 interference
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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM | Work Order Number: 2112926 | RcptNo: 1

Received By: **Isaiah Ortiz** 12/15/2021 8:00:00 AM I_Ox

Completed By: **Isaiah Ortiz** 12/15/2021 8:55:12 AM I_Ox

Reviewed By: DAD 12/15/21

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

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 ☐	
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?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: CM 12/15/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Not Present			
2	0.6	Good	Not Present			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Trunk 6C

Project #: 05A1226011

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 2 2.6°C -0.1 CF / 2.5°C

Cooler Temp (including CF): 0.7°C -0.1 / 0.6 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 7112926	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/14/21	9:20	W	MW-7	3x40mL VOA	$HgCl_2$	001	X									
12/14/21	10:05	W	MW-6	3x40mL VOA	$HgCl_2$	002	X									
12/14/21	11:05	W	MW-13	3x40mL VOA	$HgCl_2$	003	X									
12/14/21	11:35	W	MW-5	3x40mL VOA	$HgCl_2$	004	X									
12/14/21	12:30	W	MW-9	3x40mL VOA	$HgCl_2$	005	X									
12/14/21	13:05	W	MW-4	3x40mL VOA	$HgCl_2$	006	X									
12/14/21	13:40	W	MW-3	3x40mL VOA	$HgCl_2$	007	X									
12/14/21	14:15	W	MW-17	3x40mL VOA	$HgCl_2$	008	X									
12/14/21	14:45	W	MW-1	3x40mL VOA	$HgCl_2$	009	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/14/21	1529			Courier	12/14/21	1529
12/14/21	1811	Christian Llaneza		Courier	12/15/21	0800

Remarks:

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.

Enterprise Products

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

ENTERPRISE PRODUCTS OPERATING LLC

September 6, 2023

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

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

REVIEWED
By Mike Buchanan at 8:51 am, Sep 15, 2023

Submittal1: *2021 Groundwater Monitoring* [Annual] ***Report*** (Ensolum, March 25, 2022)
Submittal2: *2022 Groundwater Monitoring* [Annual] ***Report*** (Ensolum, March 22, 2023)
RE: Enterprise Field Services, LLC
Trunk 6C Pipeline - Kutz Wash Release (09/22/11)
San Juan County, New Mexico [SW ¼, S26 T28N R14W (36.632928° N, 107.97400° W)]
OCD RP: 3R-438; OCD Abatement Plan No. 131; Incident Nos. nAUK1201237146

Review of the 2022 GW Monitoring Abatement Plan for Trunk 6C Pipeline-Kutz Wash Release. **Content Satisfactory**
1. Continue to monitor on a semi-annual basis while Stage 1 Abatement is awaiting approval.
2. Upload Stage 1 Abatement Plan into the incident file for consideration.
3. Continue to submit and upload 2023 GW Monitoring Report by or before April 1, 2024.

Dear Mr. Velez:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is pleased to provide the New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) with an electronic copy (uploaded to the OCD Online Imaging website address above) of the above-referenced documents (*Submittal1* and *Submittal2*) that were prepared by *Ensolum, LLC* (Ensolum) and dated March 25, 2022 and March 22, 2023, respectively. The Submittals are associated with the September 22, 2011 discovery of a release of natural gas condensate that occurred from the Enterprise Trunk 6C pipeline at the above-referenced location (the "Site"). The information detailed in each Submittal documents Site-related groundwater monitoring and sampling (GWM&S) activities conducted between January 1 and December 31, 2021 (the "reporting period" for Submittal1) and between January 1 and December 31, 2022 (the "reporting period" for Submittal2). During the reporting period for each Submittal, two semi-annual groundwater monitoring and sampling (S-A GWM&S) events were conducted to evaluate the magnitude and extent of any constituents of concern (COCs) that remain at the Site as phase-separated hydrocarbon (PSH) and dissolved-phase hydrocarbon (DPH).

Based on the data presented in each Submittal, PSH has not been observed since September 2016 (MW-1) and the DPH plume remains delineated. And although COC concentrations still remain in excess of the applicable Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) (in MW-1 and MW-17), DPH/COC concentrations continue to be stable and/or declining.

Based on the results presented in the Submittal, Enterprise plans to: 1) continue conducting semi-annual GWM&S events, 2) suspend monitoring and sampling of monitoring wells MW-3 through MW-11 and MW-13 through MW-15 (as per NM OCD approval email dated December 28, 2021), and 3) conduct additional site-specific aquifer characterization and testing to evaluate the options to remediate areas of GQS exceedances. Once the *Stage 1 Abatement Plan* has been fully approved and implemented, Enterprise will prepare and submit a *Stage 2 Abatement Plan* for approval, or proceed "at-risk" with the removal of residual impacted soils to expedite natural attenuation (prior to the EMNRD OCD approval of the *Stage 1 Abatement Plan).*

Enterprise appreciates the New Mexico EMNRD OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments, or concerns, or need additional information regarding this Site, please feel free to contact me at (713) 381-8780, or via email at GEMiller@eprod.com.

Sincerely,

Gregory E. Miller, P.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: NMOCD, Aztec, NM - Mr. Nelson Velez < Nelson.Velez@state.nm.us>
NMOCD, Santa Fe, NM – Mr. Jim Griswold <Jim.Griswold@state.nm.us>
NMOCD, Santa Fe, NM – Mr. Brad Billings <Bradford.Billings@state.nm.us>
Ensolum, Houston, TX – Mr. Marc E. Gentry <MGentry@ensolum.com>

ENSOLUM

2022 GROUNDWATER MONITORING REPORT

Property:

Trunk 6C Kutz Wash Pipeline Release (2011)
Unit Letter K, S26 T28N R11W
San Juan County, New Mexico

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

March 22, 2023

Ensolum Project No. 05A1226011

Prepared for:

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

Prepared by:

Ranee Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

Executive Summary

This report documents the 2022 groundwater monitoring activities conducted 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 Unit Letter K of Section 26, Township 28 North, Range 11 West, in San Juan County, New Mexico.

Since the discovery of a release of natural gas and associated liquids from the Trunk 6C pipeline on September 22, 2011, numerous investigation and corrective action activities have been conducted at the Site. Additionally, since September 2012, periodic groundwater monitoring has been performed at the Site. Based on analytical results, impact to soil and groundwater remains at the Site.

Groundwater sampling events were conducted by Ensolum during June 2022 and December 2022. The primary objective of these groundwater monitoring events was to further evaluate constituent of concern (COC) concentrations in groundwater and to monitor the generally declining COC concentrations over time at the Site.

Findings based on these activities are as follows:

- The groundwater flow direction at the Site is generally towards the northwest, with a gradient during the 2022 sampling events that varied from 0.008 to 0.0095 feet per foot (ft/ft) across the Site.

- Benzene was reported at concentrations exceeding the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standard (GQS) of 10 micrograms per liter (µg/L) in groundwater samples collected from monitoring well MW-1 during the June 2022 and December 2022 sampling events and monitoring MW-17 during the December 2022 sampling event. The groundwater samples collected from the remaining monitoring wells during the 2022 sampling events did not exhibit COC concentrations above the applicable WQCC GQSs (see footnote in report).

- The results from the groundwater sampling events completed in 2022 at the Site generally continue to demonstrate stable COC concentrations in groundwater.

Ensolum offers the following recommendations:

- Report the groundwater monitoring data to the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD).

- Continue semi-annual groundwater monitoring at the Site, limiting the sampling frequency of monitoring wells MW-3 through MW-11, MW-13, MW-14, and MW-15 to annually.

- Implement additional Site-specific aquifer testing as described in the Stage 1 Abatement Plan (this activity has been approved by the NM EMNRD OCD).

- After the Stage 1 Abatement Plan has been fully implemented and approved, prepare a Stage 2 Abatement Plan (if required), 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.

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

This report describes the 2022 groundwater monitoring activities conducted at the Trunk 6C Kutz Wash Pipeline Release (2011) 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 (2011)
NM EMNRD OCD Incident ID No.	NJK1201237146
Location:	36.63202° North, 107.97400° West Unit Letter K, Section 26, Township 28 North, Range 11 West San Juan County, New Mexico
Property:	United States (U.S.) Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On September 22, 2011, a release of an unknown volume of natural gas and associated liquids from the Trunk 6C pipeline was discovered at the Site. The pipeline was subsequently repaired. Animas Environmental Services, LLC (AES) collected one 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. The assessment included the collection of soil samples from four test holes (TP-1 through TP-4) that were advanced near the release area and groundwater samples from two of the test holes. Based on laboratory analytical results, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total petroleum hydrocarbons (TPH) were identified in soil samples collected from two 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* (AES, October 28, 2011).

During November 2011, AES advanced eight 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*, AES, February 20, 2012).

During September 2012, nine additional soil borings were advanced at the Site by AES to further evaluate the extent of dissolved phase COCs in groundwater. The soil borings were then 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 Report*, AES, October 31, 2012).

On October 16, 2013, AES advanced four 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*, AES, December 10, 2013,

and *4th Quarter 2013 Groundwater Monitoring and Continued Investigation Report*, AES, July 23, 2014).

During September 2016, Enterprise retained Apex TITAN, Inc., (Apex) to perform environmental site investigation activities at the Site to further evaluate and delineate COCs in soil and groundwater. Five soil borings were advanced and three 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)*, Apex, February 13, 2017).

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 (*Revised Trunk 6C Kutz Wash Pipeline Release Stage 1 Abatement Plan*, Ensolum, May 22, 2019). The New Mexico EMNRD OCD has not formally approved the plan at this time, and Enterprise has resumed semi-annual groundwater monitoring of the Site.

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 19.15.29 New Mexico Administrative Code (NMAC) (*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 identified in 20.6.2 NMAC (*Ground 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, the extent of the former excavation, excavation sample locations, 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 and monitor the generally declining COC concentrations over time at the Site.

2.0 GROUNDWATER MONITORING

Ensolum conducted groundwater sampling events during June 2022 and December 2022. The groundwater sampling program consisted of the collection of one groundwater sample from each of the viable monitoring wells at the Site. Monitoring well MW-12 was not sampled during either sampling event due to an obstructed well screen/casing. On December 28, 2021, the New Mexico EMNRD OCD approved to suspend sampling of monitoring wells MW-3 through MW-11, and MW-

[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 this legacy site that predates the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

13 through MW-15. However, the email was not clear if an alternate sampling schedule was intended for those wells. Therefore, Enterprise decided to performed one semi-annual sampling event (June 2022) consisting of only the three monitoring wells (MW-1, MW-2, and MW-17) and one semi-annual sampling event consisting of all monitoring wells. The New Mexico EMNRD OCD was notified of the sampling events although no representative was present during the sampling activities. Regulatory correspondence is provided in **Appendix B**.

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 liquid (NAPL).
- Each designated monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, the groundwater sample was collected.
- Low-flow or low-stress sampling refers to sampling methods that are intended to minimize the stress that is imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.
- During low-flow sampling, the groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are 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.
- Groundwater samples were collected in laboratory-supplied containers (pre-preserved with mercuric chloride ($HgCl_2$)), labeled, and 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.

2.1 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the 2022 sampling events were analyzed for BTEX utilizing U.S. Environmental Protection Agency (EPA) SW-846 Method #8021 or #8260.

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

Analyte	Sample Type	No. of Samples (Jun/Dec)	Method
BTEX	Groundwater	3/15	SW-846 8021 or 8260

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

2.2 Groundwater Flow Direction

The groundwater flow direction at the Site is generally towards the northwest. The calculated gradient during the 2022 monitoring events varied from approximately 0.008 to 0.0095 feet per foot (ft/ft) across the Site. Groundwater elevation data collected during the 2022 gauging events are presented in **Table 2** (**Appendix C**). Groundwater gradient maps for the 2022 gauging events are included as **Figure 4A** and **Figure 4B** (**Appendix A**).

2.3 Groundwater Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the groundwater samples collected from monitoring wells during the 2022 groundwater sampling events to the New Mexico WQCC GQSs. The results of the analyses are summarized in **Table 1** of **Appendix C**. Groundwater Quality Standard Exceedance Zone maps are provided as **Figure 5A** and **Figure 5B** of **Appendix A**.

June 2022

- The June 2022 analytical result for monitoring well MW-1 indicates a benzene concentration of 230 micrograms per liter (µg/L), which exceeds the WQCC GQS of 10 µg/L.[1] The June 2022 analytical result for monitoring well MW-17 indicates a benzene concentration of 2.4 µg/L, which is below the WQCC GQS of 10 µg/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 µg/L.[1]

- The June 2022 analytical result for monitoring well MW-1 indicates a toluene concentration of 7.4 µg/L, which is below the WQCC GQS of 750 µg/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 µg/L.[1]

- The June 2022 analytical result for monitoring well MW-1 indicates an ethylbenzene concentration of 35 µg/L, which is below the WQCC GQS of 750 µg/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 µg/L.[1]

- The June 2022 analytical result for monitoring well MW-1 indicates a total xylenes concentration of 86 µg/L, which is below the WQCC GQS of 620 µg/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 µg/L.[1]

- No data qualifier flags are associated with the June 2022 analytical results.

December 2022

- The December 2022 analytical results for monitoring wells MW-1 and MW-17 indicate benzene concentrations of 400 µg/L and 36 µg/L, respectively, which exceed the WQCC GQS of 10 µg/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 µg/L.[1]

- The December 2022 analytical result for monitoring well MW-1 indicates a toluene

[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 this legacy site that predates the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

concentration of 30 µg/L, which is below the WQCC GQS of 750 µg/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 µg/L.[1]

- The December 2022 analytical result for monitoring well MW-1 indicates an ethylbenzene concentration of 64 µg/L, which is below the WQCC GQS of 750 µg/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 µg/L.[1]

- The December 2022 analytical results for monitoring wells MW-1, MW-15, and MW-17 indicate total xylenes concentrations of 160 µg/L, 5.2 µg/L, and 2.6 µg/L, respectively, which are below the WQCC GQS of 620 µg/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 µg/L.[1]

- No data qualifier flags are associated with the December 2022 analytical results.

3.0 FINDINGS

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

- The groundwater flow direction at the Site is generally towards the northwest. The calculated gradient during the 2022 monitoring events varied from approximately 0.008 to 0.0095 ft/ft across the Site.

- Benzene was reported at concentrations exceeding the New Mexico WQCC GQS of 10 µg/L in groundwater samples collected from monitoring well MW-1 during the June 2022 and December 2022 sampling events and monitoring MW-17 during the December 2022 sampling event. The groundwater samples collected from the remaining monitoring during the two 2022 sampling events did not exhibit COC concentrations above the applicable WQCC GQSs.[1]

- The results from the groundwater sampling events completed in 2022 at the Site generally continue to demonstrate stable COC concentrations in groundwater.

4.0 RECOMMENDATIONS

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

- Report the groundwater monitoring data to the New Mexico EMNRD OCD.

- Continue semi-annual groundwater monitoring at the Site, limiting the sampling frequency of monitoring wells MW-3 through MW-11, MW-13, MW-14, and MW-15 to annually.

- Implement additional Site-specific aquifer testing as described in the Stage 1 Abatement Plan (this activity has been approved by the NM EMNRD OCD).

[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 this legacy site that predates the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

- After the Stage 1 Abatement Plan has been fully implemented and approved, prepare a Stage 2 Abatement Plan (if required), 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.

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).

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

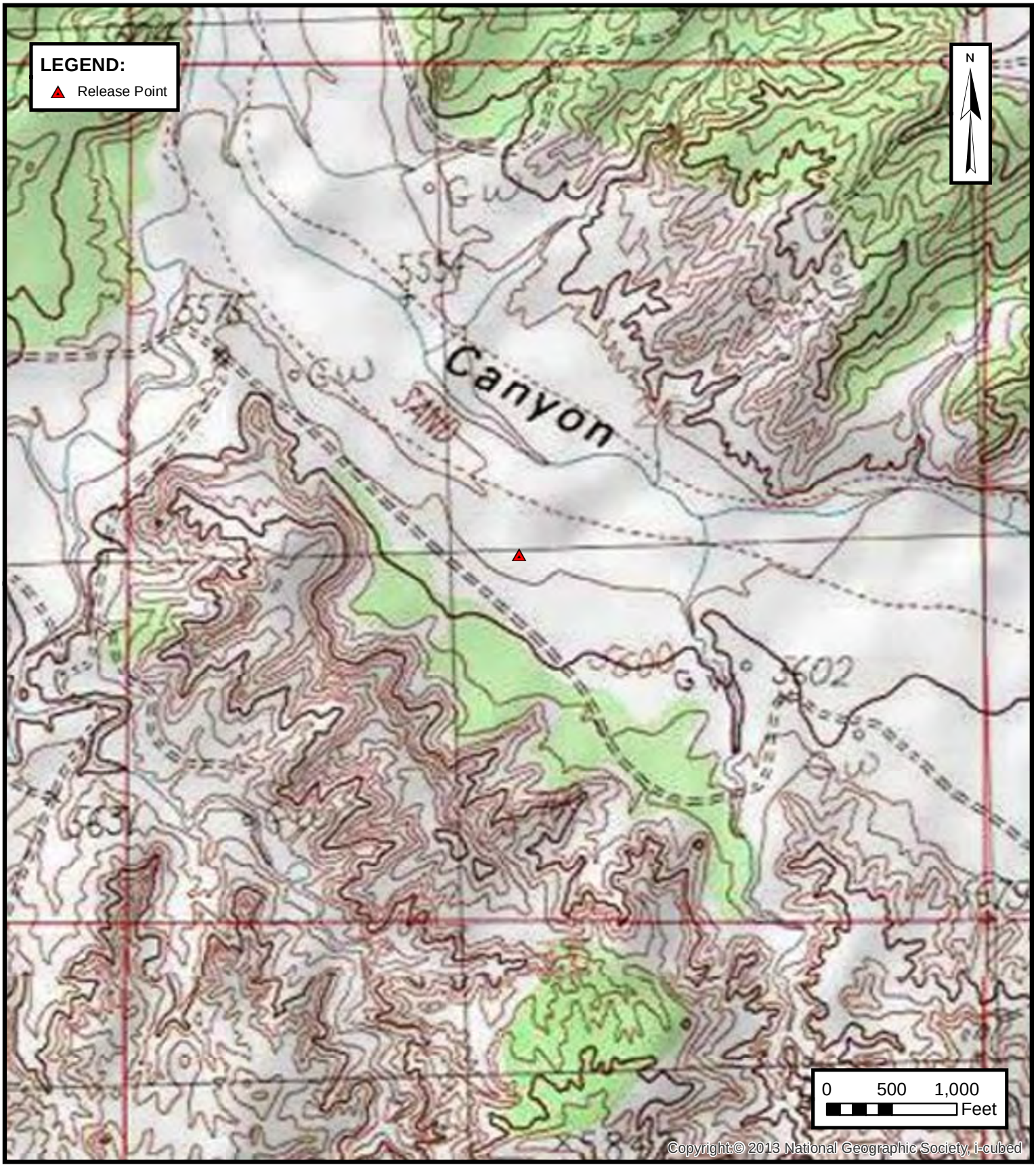
5.3 Reliance

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 Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

ENSOLUM

APPENDIX A

Figures



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

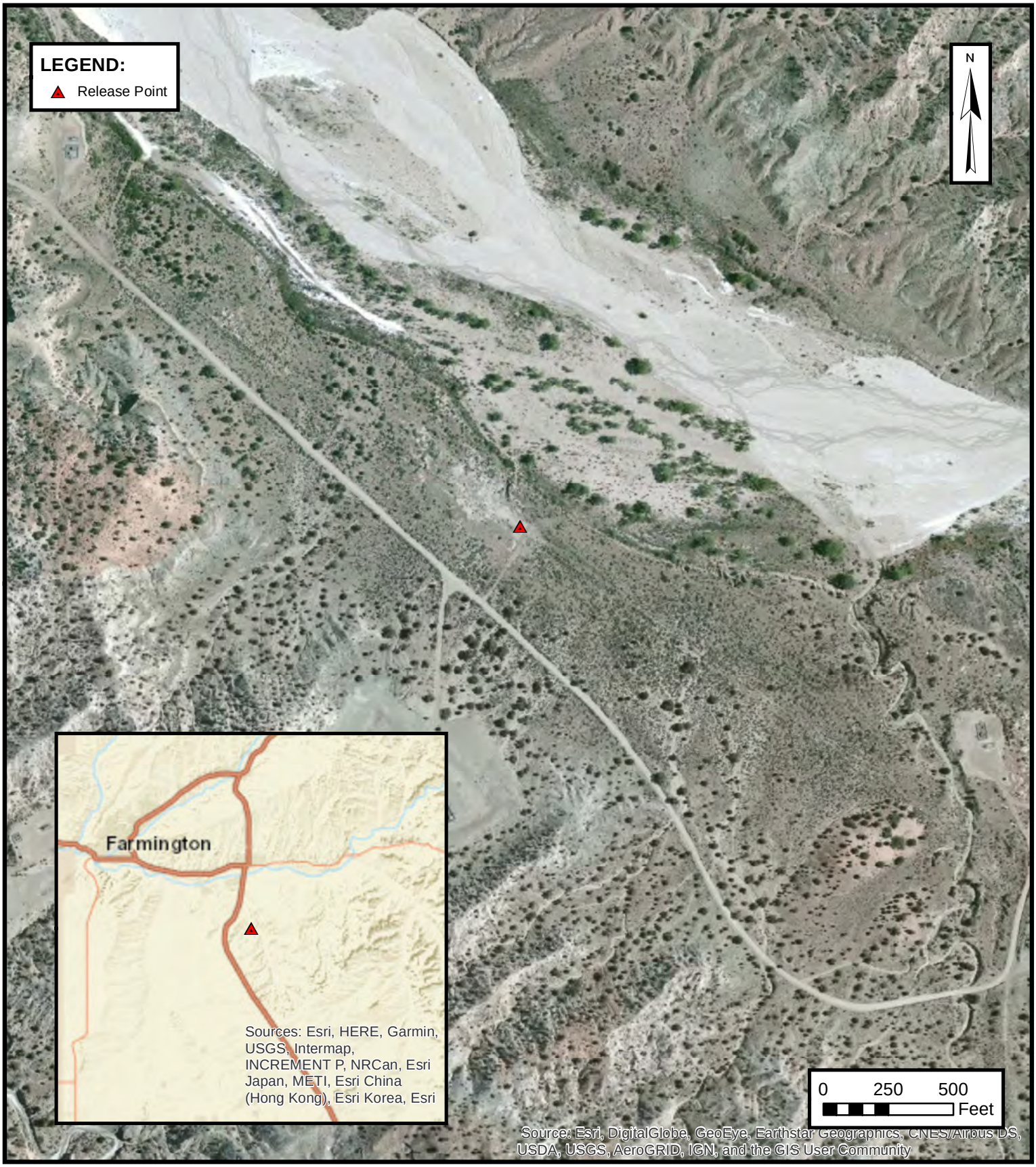
TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE

1



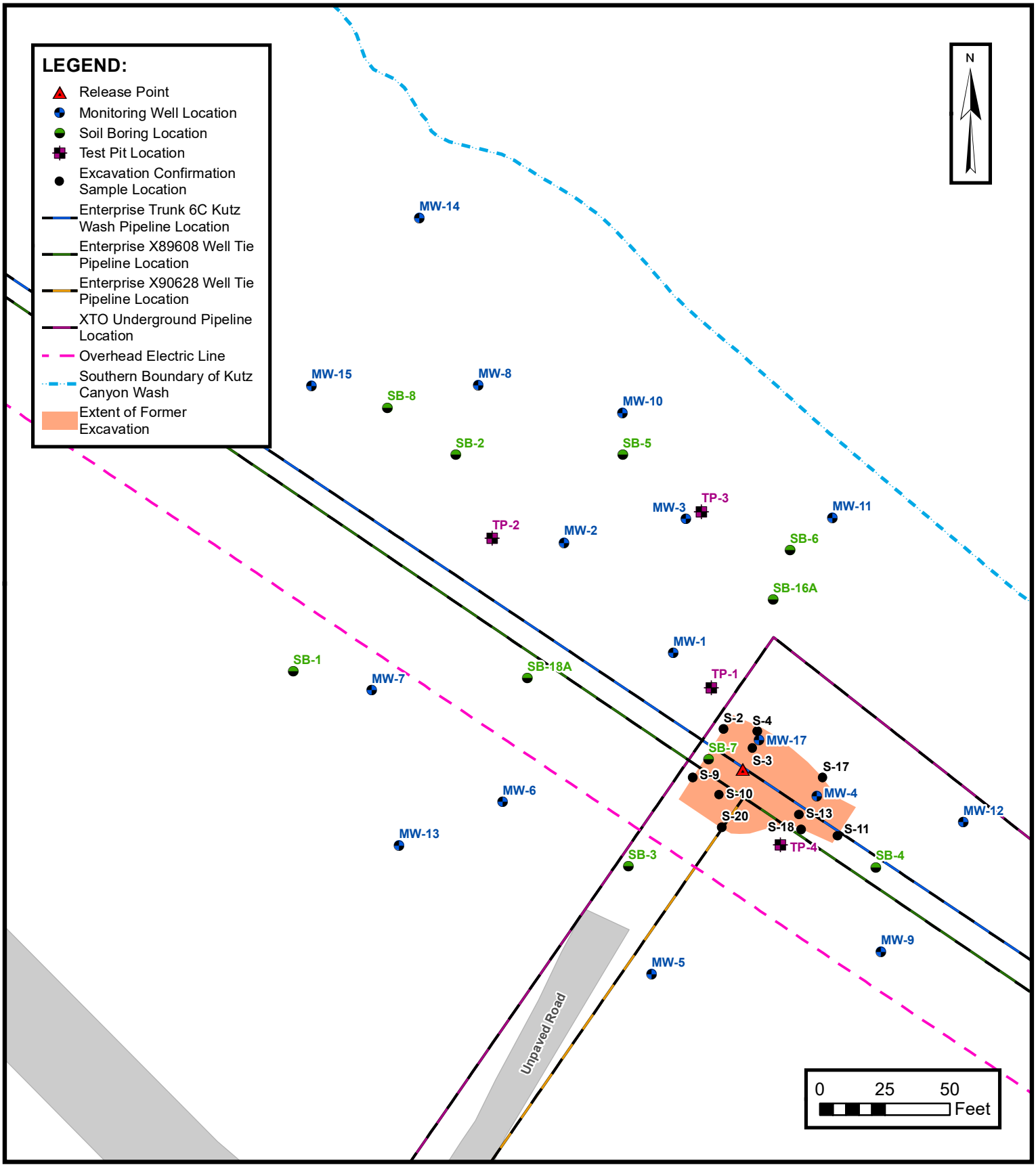
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
2



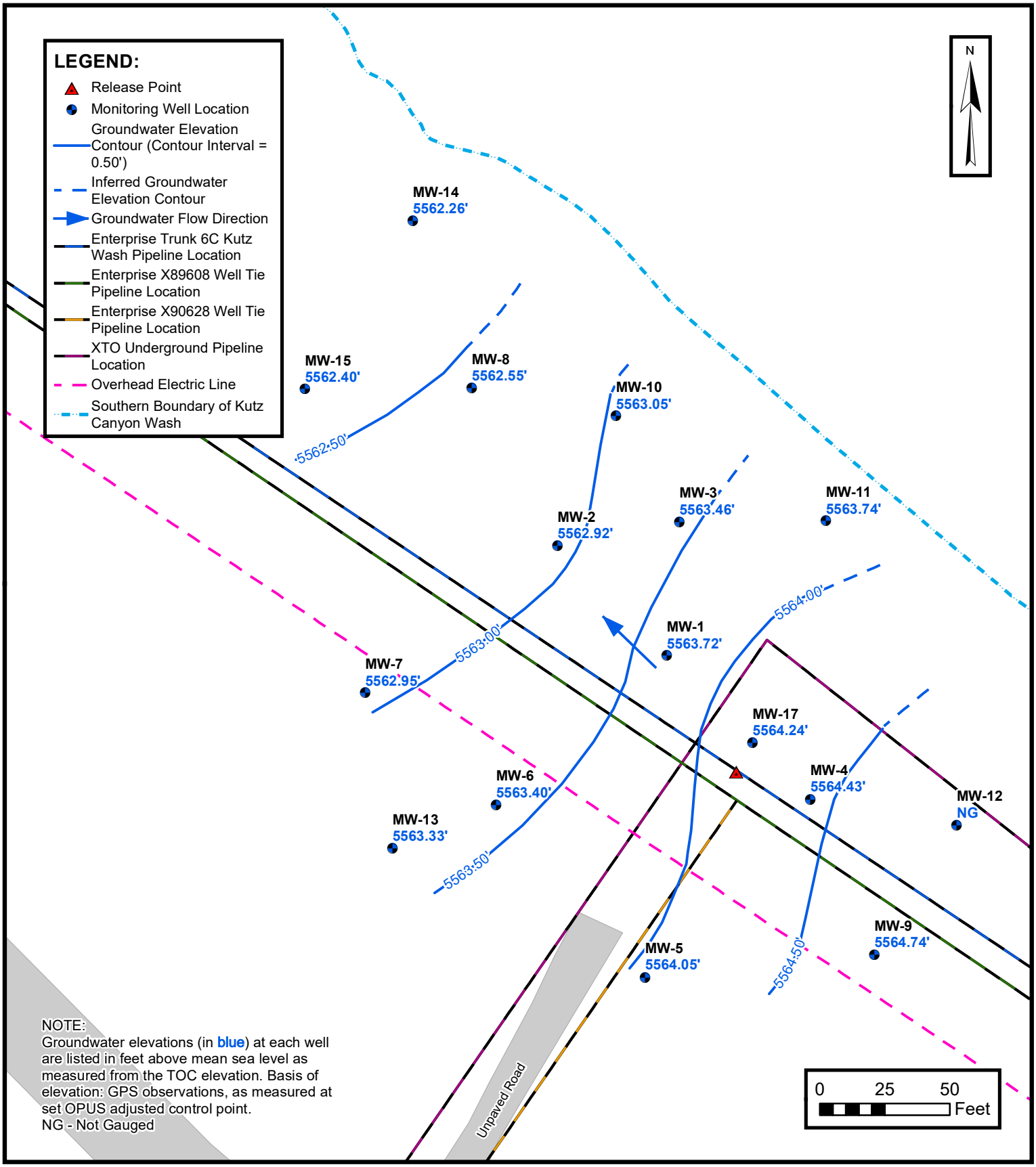
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

SITE MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
3



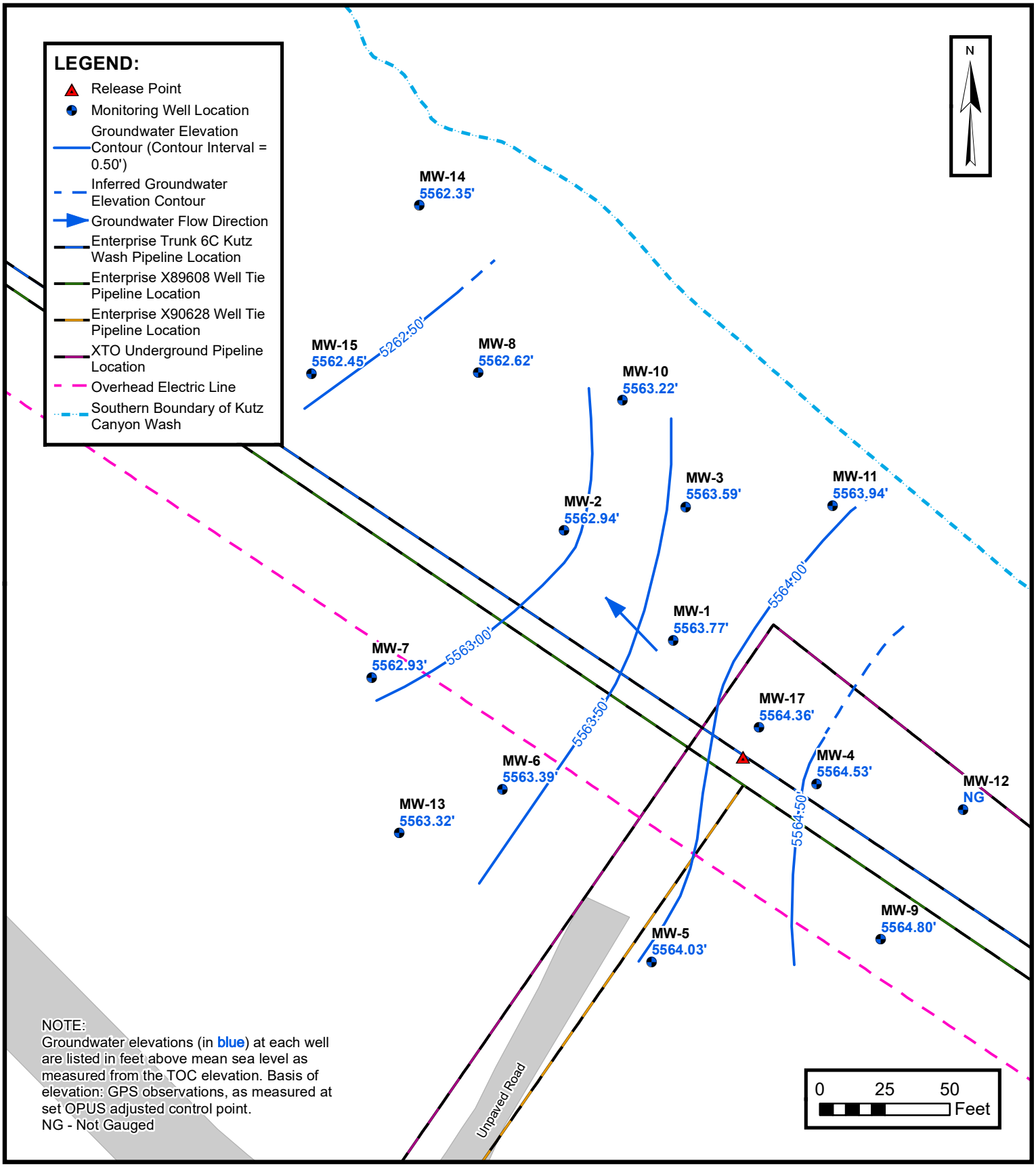
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

GROUNDWATER GRADIENT MAP (JUNE 2022)

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
4A



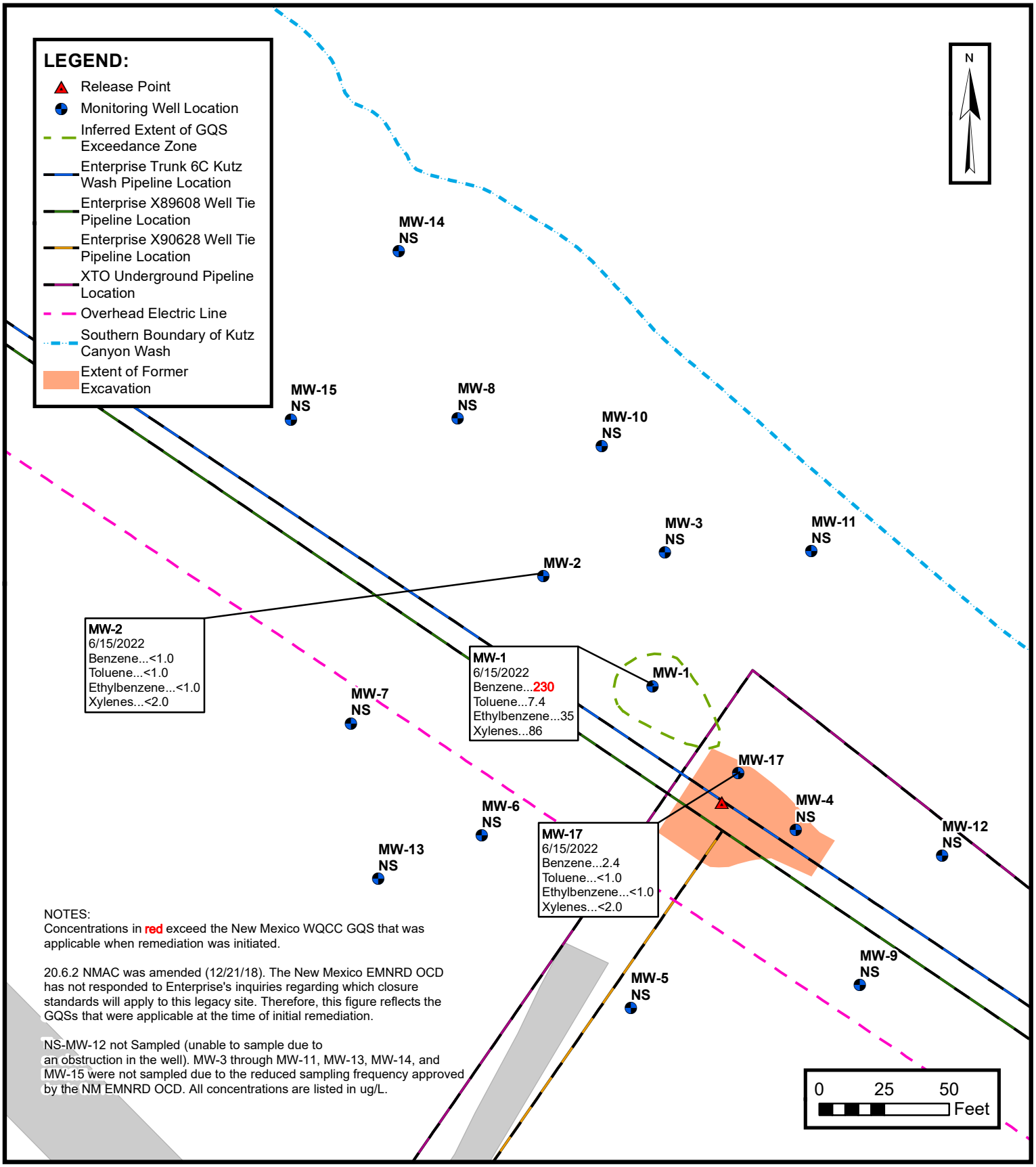
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

GROUNDWATER GRADIENT MAP (DECEMBER 2022)

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
4B



NOTES:
Concentrations in red exceed the New Mexico WQCC GQS that was applicable when remediation was initiated.

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

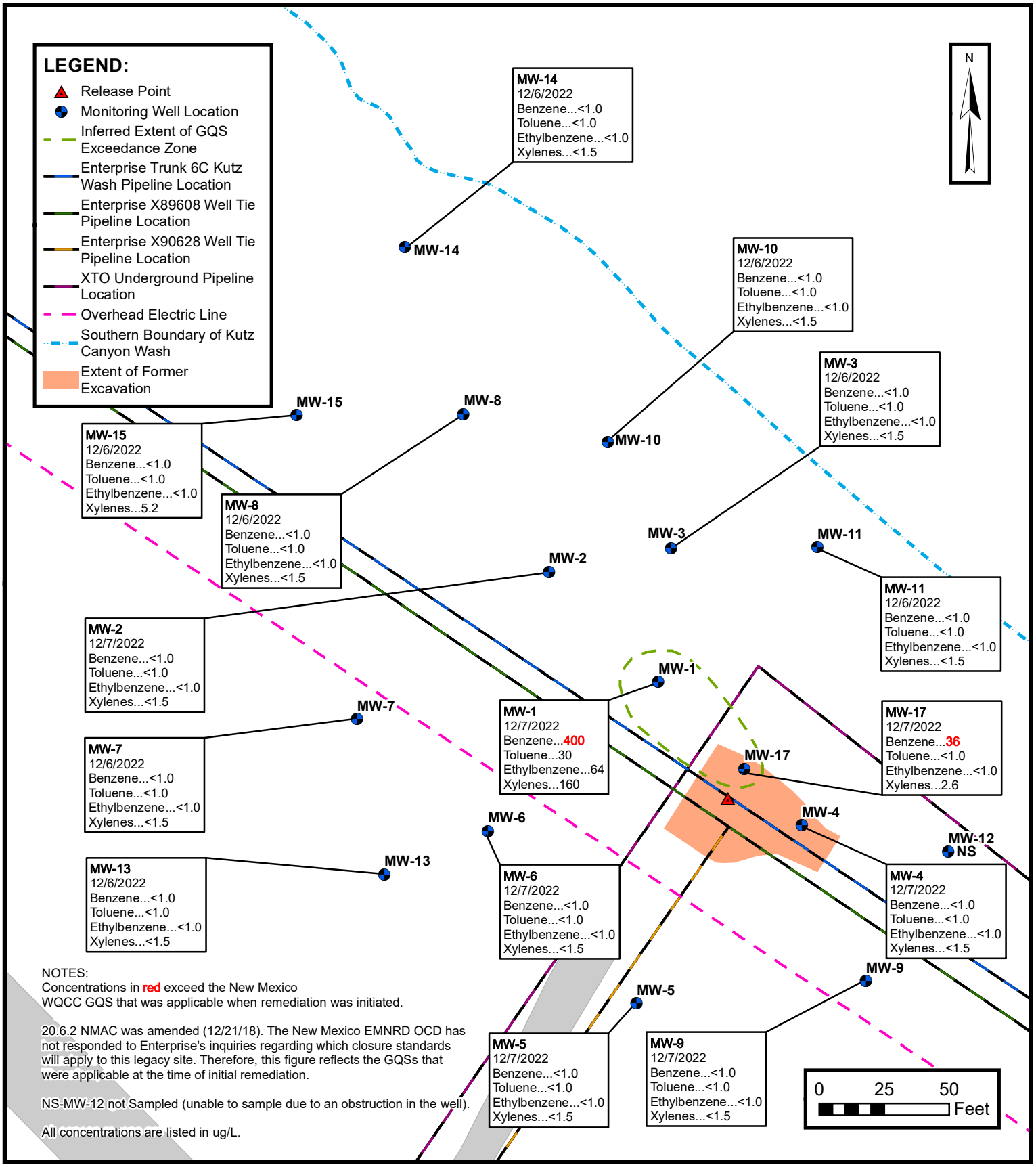
NS-MW-12 not Sampled (unable to sample due to an obstruction in the well). MW-3 through MW-11, MW-13, MW-14, and MW-15 were not sampled due to the reduced sampling frequency approved by the NM EMNRD OCD. All concentrations are listed in ug/L.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (JUNE 2022)
ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
5A



NOTES:
Concentrations in red exceed the New Mexico WQCC GQS that was applicable when remediation was initiated.

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

NS-MW-12 not Sampled (unable to sample due to an obstruction in the well).

All concentrations are listed in ug/L.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (DECEMBER 2022)
ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C KUTZ WASH
Unit Letter K, S26 T28N R11W, San Juan County, New Mexico
36.63202° N, 107.97400° W

PROJECT NUMBER: 05A1226011

FIGURE
5B

ENSOLUM

APPENDIX B

Regulatory Correspondence

From: Kyle Summers
To: Landon Daniell
Cc: Ranee Deechilly
Subject: FW: [EXTERNAL] Trunk 6C - Section 26 T28N R 11W, 36.63197, -107.97408; Incident # NJK1201237146
Date: Wednesday, November 30, 2022 7:42:01 AM
Attachments: image004.png
image005.png
image006.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

PLEASE NOTE OUR NEW CORPORATE ADDRESS:
Ensolum, LLC
8330 LBJ Freeway, Ste. 830
Dallas, TX 75243

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, November 30, 2022 7:38 AM
To: Long, Thomas <tjlong@eprod.com>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>; Miller, Greg <GEMiller@eprod.com>
Subject: RE: [EXTERNAL] Trunk 6C - Section 26 T28N R 11W, 36.63197, -107.97408; Incident # NJK1201237146

[**EXTERNAL EMAIL**]

Tom,

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

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

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

Thanks again

Regards,

Nelson Velez ● Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, November 30, 2022 7:36 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>; Miller, Greg <GEMiller@eprod.com>
Subject: [EXTERNAL] Trunk 6C - Section 26 T28N R 11W, 36.63197, -107.97408; Incident # NJK1201237146

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

Nelson/Ryan,

This email is a notification the Enterprise has scheduled groundwater monitoring and sampling at the Trunk 6C release site to begin December 6, 2022. The field work is anticipated to take two days. If you have any questions, please call or email.

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

Enterprise Products

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Friday, June 10, 2022 9:49 AM
To: Stone, Brian <bmstone@eprod.com>
Cc: Kyle Summers <ksummers@ensolum.com>; Long, Thomas <tjlong@eprod.com>
Subject: RE: [EXTERNAL] Trunk 6C Kutz Wash Pipeline Release NJK1201237146

[Use caution with links/attachments]

Brian,

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

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

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

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

Thanks again

Regards,

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

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

From: Stone, Brian <bmstone@eprod.com>
Sent: Thursday, June 9, 2022 4:05 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Kyle Summers <ksummers@ensolum.com>; Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] Trunk 6C Kutz Wash Pipeline Release NJK1201237146

Nelson,

This email is a notification that Enterprise has scheduled groundwater monitoring and sampling activities for the Trunk 6C Kutz Wash Pipeline Release NJK1201237146 site on Wednesday, June 15, 2022 at 8:00 a.m. Sampling activities are anticipated to be completed in one day. If you have any questions, please call or email. Please note that Tom Long is out of the office and will return June 20.

Brian Stone

Field Environmental Manager
Enterprise Products
(970) 210-2170

ENSOLUM

APPENDIX C

Tables

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-1	9.7.12	**2,200**	350	68	**650**
	12.20.12	**1,100**	250	37	180
	3.20.13	**NAPL**	**NAPL**	**NAPL**	**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	400
	6.15.15	**6,900**	**2,700**	170	**1,400**
	12.7.15	**3,900**	**1,400**	120	**870**
	6.2.16	**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	350
	6.22.18	**3,800**	**2,400**	140	**740**
	12.14.18	**590**	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
	6.24.21	**750**	540	72	230
	12.14.21	**430**	100	59	170
	6.15.22	**230**	7.4	35	86
	12.7.22	**400**	30	64	160

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-2	9.7.12	**270**	**1,100**	66	**1,800**
	12.20.12	**26**	49	5.1	250
	3.20.13	<5.0	<5.0	<5.0	67
	6.19.13	**NAPL**	**NAPL**	**NAPL**	**NAPL**
	9.17.13	**NAPL**	**NAPL**	**NAPL**	**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	1.1	<1.0	44
	12.7.15	<1.0	<1.0	<1.0	13
	6.2.16	<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
	1.9.18	<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
	6.4.20	<1.0	<1.0	<1.0	<1.5
	11.24.20	<1.0	<1.0	<1.0	<2.0
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	<1.0	<1.0	<1.0	<2.0
	12.7.22	<1.0	<1.0	<1.0	<1.5

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-3	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	<2.0	<2.0	<4.0
	6.19.13	**780**	130	2.5	15
	9.18.13	**150**	28	<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
	12.7.15	<1.0	<1.0	<1.0	<2.0
	6.2.16	<1.0	<1.0	<1.0	<2.0
	12.19.16	<1.0	<1.0	<1.0	<1.5
	6.28.17	<1.0	<1.0	<1.0	<2.0
	1.9.18	<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
	6.4.20	<1.0	<1.0	<1.0	<1.5
	11.24.20	<1.0	<1.0	<1.0	<1.5
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.6.22	<1.0	<1.0	<1.0	<1.5

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-4	9.7.12	**18**	5.1	<2.0	<4.0
	12.20.12	<2.0	<2.0	<2.0	<4.0
	3.20.13	**290**	110	<2.0	15
	6.19.13	**600**	45	<10	<20
	9.18.13	**830**	39	<20	<30
	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
	12.4.15	<1.0	<1.0	<1.0	<2.0
	6.2.16	<1.0	<1.0	<1.0	<2.0
	12.19.16	<1.0	<1.0	<1.0	<1.5
	6.28.17	<1.0	<1.0	<1.0	<2.0
	1.9.18	<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
	11.24.20	<1.0	<1.0	<1.0	<1.5
	6.24.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.7.22	<1.0	<1.0	<1.0	<1.5

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-5	9.7.12	<2.0	<2.0	<2.0	<4.0
	12.20.12	<2.0	<2.0	<2.0	<4.0
	3.21.13	1.9	<1.0	3.8	9.7
	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	<1.0	<1.0	<1.5
	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
	12.4.15	<1.0	<1.0	<1.0	<2.0
	6.2.16	<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
	1.9.18	<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
	11.24.20	<1.0	<1.0	<1.0	<2.0
	6.24.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.7.22	<1.0	<1.0	<1.0	<1.5

ENSOLUM

TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-6	9.7.12	<5.0	<5.0	260	**2,200**
	12.20.12	<5.0	<5.0	180	**1,200**
	3.20.13	<5.0	<5.0	120	**800**
	6.19.13	9.6	6.2	150	**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
	12.4.15	<2.5	<5.0	41	210
	6.2.16	<1.0	<1.0	16	70
	12.19.16	<1.0	<1.0	26	80
	6.27.17	<1.0	<1.0	<1.0	<2.0
	1.9.18	<1.0	<1.0	3.6	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
	6.24.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	1.2	8.0
	6.15.22[B]	NS	NS	NS	NS
	12.7.22	<1.0	<1.0	<1.0	<1.5

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TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-7	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	<2.0	<2.0	<2.0	<4.0
	6.19.13	<1.0	<1.0	<1.0	<2.0
	9.17.13	3.9	<1.0	1.4	5.7
	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
	12.7.15	<1.0	<1.0	<1.0	<2.0
	6.2.16	<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
	1.9.18	<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
	8.21.19	<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	<1.5
	11.24.20	<1.0	<1.0	<1.0	<2.0
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.6.22	<1.0	<1.0	<1.0	<1.5

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TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-8	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
	12.7.15	1.3	<1.0	<1.0	53
	6.2.16	4.0	1.6	<1.0	5.1
	12.19.16	<1.0	<1.0	<1.0	2.1
	6.27.17	<1.0	<1.0	<1.0	<2.0
	1.9.18	<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
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.6.22	<1.0	<1.0	<1.0	<1.5

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TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-9	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	<1.0	<1.0	<1.5
	12.16.13	1.5	3.5	2.9	12
	3.14.14	<1.0	<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
	12.4.15	<1.0	<1.0	<1.0	<2.0
	6.2.16	<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
	1.9.18	<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
	11.24.20	<1.0	<1.0	<1.0	<1.5
	6.24.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.7.22	<1.0	<1.0	<1.0	<1.5

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TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-10	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	**17**	<1.0	2.0	<2.0
	6.03.16	**16**	<1.0	<1.0	<2.0
	12.20.16	4.8	<1.0	<1.0	<1.5
	6.27.17	3.4	<1.0	<1.0	<2.0
	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
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.6.22	<1.0	<1.0	<1.0	<1.5

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TABLE 1
Trunk 6C Kutz Wash
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		**10[A]**	**750[A]**	**750[A]**	**620[A]**
MW-11	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
	6.3.16	<1.0	<1.0	<1.0	<2.0
	12.20.16	<1.0	<1.0	<1.0	<1.5
	6.28.17	Insufficient volume of 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
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.6.22	<1.0	<1.0	<1.0	<1.5

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TABLE 1
Trunk 6C Kutz Wash
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		**10[A]**	**750[A]**	**750[A]**	**620[A]**
MW-12	12.16.13	3.3	3.8	<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	Casing Obstruction			
	12.4.15	Casing Obstruction			
	6.2.16	Casing Obstruction			
	12.20.16	Casing Obstruction			
	6.27.17	Casing Obstruction			
	1.10.18	Casing Obstruction			
	6.21.18	Casing Obstruction			
	12.13.18	Casing Obstruction			
	8.22.19	Casing Obstruction			
	1.10.20	Casing Obstruction			
	6.4.20	Casing Obstruction			
	11.24.20	Casing Obstruction			
	6.24.21	Casing Obstruction			
	12.15.21	Casing Obstruction			
	6.15.22	Casing Obstruction			
	12.6.22	Casing Obstruction			

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TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-13	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
	6.3.16	<1.0	<1.0	<1.0	<2.0
	12.20.16	<1.0	<1.0	<1.0	<1.5
	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	<1.5
	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
	6.5.20	<1.0	<1.0	<1.0	<1.5
	11.24.20	<1.0	<1.0	<1.0	<2.0
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.14.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.6.22	<1.0	<1.0	<1.0	<1.5

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TABLE 1
Trunk 6C Kutz Wash
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		**10[A]**	**750[A]**	**750[A]**	**620[A]**
MW-14	9.16.16	<1.0	<1.0	<1.0	<2.0
	12.20.16	<1.0	<1.0	<1.0	<1.5
	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	<1.5
	12.13.18	2.7	<1.0	<1.0	6.1
	8.21.19	<1.0	<1.0	<1.0	<2.0
	1.13.20	<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
	6.23.21	<1.0	<1.0	<1.0	<1.5
	12.13.21	<1.0	<1.0	<1.0	<2.0
	6.15.22[B]	NS	NS	NS	NS
	12.6.22	<1.0	<1.0	<1.0	<1.5
MW-15	9.16.16	3.6	<1.0	4.1	43
	12.20.16	<1.0	<1.0	6.2	87
	6.27.17	4.1	<1.0	4.6	89
	1.10.18	4.7	<1.0	2.8	33
	6.21.18	6.5	<1.0	2.6	13
	12.13.18	1.2	<1.0	<1.0	<2.0
	8.21.19	<1.0	<1.0	<1.0	<2.0
	1.13.20	<1.0	<1.0	1.4	23
	6.5.20	<1.0	<1.0	4.7	49
	11.24.20	<1.0	<1.0	<1.0	15
	6.23.21	<1.0	<1.0	1.8	29
	12.13.21	<1.0	<1.0	<1.0	11
	6.15.22[B]	NS	NS	NS	NS
	12.6.22	<1.0	<1.0	<1.0	5.2

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TABLE 1
Trunk 6C Kutz Wash
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		10[A]	750[A]	750[A]	620[A]
MW-17	9.16.16	**380**	**790**	33	**1,200**
	12.20.16	**200**	100	11	310
	6.28.17	**130**	<5.0	<5.0	**950**
	1.10.18	5.2	2.2	1.2	13
	6.22.18	**29**	<1.0	2.4	<1.5
	12.14.18	**29**	<1.0	1.8	<2.0
	8.22.19	4.1	<1.0	<1.0	<2.0
	1.13.20	2.2	<1.0	<1.0	<2.0
	6.5.20	**17**	<1.0	<1.0	<1.5
	11.24.20	8.7	<1.0	<1.0	<1.5
	6.24.21	**13**	<1.0	<1.0	<1.5
	12.14.21	4.3	<1.0	<1.0	<2.0
	6.15.22	2.4	<1.0	<1.0	<2.0
	12.7.22	**36**	<1.0	<1.0	2.6

*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 this legacy site that predates the 2018 rule change. Therefore, this table reflects the previous remediation standards.

[B] = In an email from the NM EMNRD OCD on December 28, 2021, the OCD approved the suspension of monitoring and sampling activities of monitoring wells MW-3 through MW-11, MW-13, MW-14, and MW-15.

NS = Not Sampled.

µg/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
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-1*	9.7.12	ND	15.78	ND	27.43	12.43-27.43	5579.73	5563.95
	12.20.12	ND	15.69	ND				5564.04
	3.20.13	15.31	15.73	0.42				5564.31
	6.19.13	15.49	15.75	0.26				5564.17
	9.17.13	15.79	16.27	0.48				5563.81
	12.16.13	15.59	15.75	0.16				5564.10
	3.14.14	15.35	15.36	0.01				5564.38
	9.9.14	15.98	15.99	0.01				5563.75
	6.10.15	15.29	15.30	0.01				5564.44
	12.04.15	ND	15.81	ND				5563.92
	6.02.16	ND	15.41	ND				5564.32
	9.16.16	16.12	16.13	0.01			5579.43	5563.31
	12.19.16	ND	15.83	ND				5563.60
	6.27.17	ND	15.39	ND				5564.04
	1.09.18	ND	15.61	ND				5563.82
	6.21.18	ND	15.65	ND				5563.78
	12.13.18	ND	15.89	ND				5563.54
	8.20.19	ND	16.02	ND				5563.41
	1.07.20	ND	15.79	ND				5563.64
	6.4.20	ND	15.63	ND				5563.80
	11.24.20	ND	16.06	ND				5563.37
	6.23.21	ND	15.93	ND				5563.50
	12.13.21	ND	15.94	ND				5563.49
	6.15.22	ND	15.71	ND				5563.72
	12.6.22	ND	15.66	ND				5563.77

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TABLE 2
Trunk 6C Kutz Wash
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-2*	9.7.12	ND	16.29	ND	25.62	10.62-25.62	5579.39	5563.10
	12.20.12	ND	16.22	ND				5563.17
	3.20.13	ND	15.97	ND				5563.42
	6.19.13	15.96	16.40	0.44				5563.31
	9.17.13	16.40	16.54	0.14				5562.95
	12.16.13	16.14	16.22	0.08				5563.23
	3.14.14	ND	15.89	ND				5563.50
	9.9.14	ND	16.50	ND				5562.89
	6.10.15	ND	15.81	ND				5563.58
	12.04.15	ND	16.32	ND				5563.07
	6.02.16	ND	15.93	ND				5563.46
	9.16.16	ND	16.61	ND			5579.15	5562.54
	12.19.16	ND	16.35	ND				5562.80
	6.27.17	ND	15.95	ND				5563.20
	1.09.18	ND	16.13	ND				5563.02
	6.21.18	ND	16.19	ND				5562.96
	12.13.18	ND	16.45	ND				5562.70
	8.20.19	ND	16.52	ND				5562.63
	1.07.20	ND	16.35	ND				5562.80
	6.4.20	ND	16.16	ND				5562.99
	11.24.20	ND	16.62	ND				5562.53
	6.23.21	ND	16.43	ND				5562.72
	12.13.21	ND	16.47	ND				5562.68
	6.15.22	ND	16.23	ND				5562.92
	12.6.22	ND	16.21	ND				5562.94

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TABLE 2
Trunk 6C Kutz Wash
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-3*	9.7.12	ND	15.98	ND	25.57	10.57-25.57	5579.52	5563.54
	12.20.12	ND	15.79	ND				5563.73
	3.20.13	ND	15.50	ND				5564.02
	6.19.13	ND	15.66	ND				5563.86
	9.18.13	ND	15.96	ND				5563.56
	12.16.13	ND	15.70	ND				5563.82
	3.14.14	ND	15.39	ND				5564.13
	9.9.14	ND	16.10	ND				5563.42
	6.10.15	ND	15.28	ND				5564.24
	12.04.15	ND	15.87	ND				5563.65
	6.02.16	ND	15.47	ND				5564.05
	9.16.16	ND	16.24	ND			5579.24	5563.00
	12.19.16	ND	15.87	ND				5563.37
	6.27.17	ND	15.45	ND				5563.79
	1.09.18	ND	15.65	ND				5563.59
	6.21.18	ND	15.76	ND				5563.48
	12.13.18	ND	15.97	ND				5563.27
	8.20.19	ND	16.14	ND				5563.10
	1.07.20	ND	15.85	ND				5563.39
	6.4.20	ND	15.69	ND				5563.55
	11.24.20	ND	16.13	ND				5563.11
	6.23.21	ND	16.02	ND				5563.22
	12.13.21	ND	15.98	ND				5563.26
	6.15.22	ND	15.78	ND				5563.46
	12.6.22	ND	15.65	ND				5563.59

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TABLE 2
Trunk 6C Kutz Wash
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-4*	9.7.12	ND	15.59	ND	25.26	10.26-25.26	5580.36	5564.77
	12.20.12	ND	15.51	ND				5564.85
	3.20.13	ND	15.25	ND				5565.11
	6.19.13	ND	15.41	ND				5564.95
	9.18.13	ND	15.74	ND				5564.62
	12.16.13	ND	15.45	ND				5564.91
	3.14.14	ND	15.14	ND				5565.22
	9.9.14	ND	15.80	ND				5564.56
	6.10.15	ND	15.06	ND				5565.30
	12.04.15	ND	15.56	ND				5564.80
	6.02.16	ND	15.22	ND				5565.14
	9.16.16	ND	15.92	ND			5579.95	5564.03
	12.19.16	ND	15.55	ND				5564.40
	6.27.17	ND	15.22	ND				5564.73
	1.09.18	ND	15.34	ND				5564.61
	6.21.18	ND	15.45	ND				5564.50
	12.13.18	ND	15.60	ND				5564.35
	8.20.19	ND	15.80	ND				5564.15
	1.07.20	ND	15.50	ND				5564.45
	6.4.20	ND	15.41	ND				5564.54
	11.24.20	ND	15.80	ND				5564.15
	6.23.21	ND	15.73	ND				5564.22
	12.13.21	ND	15.66	ND				5564.29
	6.15.22	ND	15.52	ND				5564.43
	12.6.22	ND	15.42	ND				5564.53

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TABLE 2
Trunk 6C Kutz Wash
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-5*	9.7.12	ND	19.35	ND	25.58	10.58-25.58	5583.53	5564.18
	12.20.12	ND	19.28	ND				5564.25
	3.20.13	ND	19.10	ND				5564.43
	6.19.13	ND	19.21	ND				5564.32
	9.17.13	ND	19.55	ND				5563.98
	12.16.13	ND	19.28	ND				5564.25
	3.14.14	ND	19.03	ND				5564.50
	9.9.14	ND	19.58	ND				5563.95
	6.10.15	ND	18.98	ND				5564.55
	12.04.15	ND	19.41	ND				5564.12
	6.02.16	ND	19.08	ND				5564.45
	9.16.16	ND	19.69	ND			5583.41	5563.72
	12.19.16	ND	19.42	ND				5563.99
	6.27.17	ND	19.12	ND				5564.29
	1.09.18	ND	19.22	ND				5564.19
	6.21.18	ND	19.27	ND				5564.14
	12.13.18	ND	19.44	ND				5563.97
	8.20.19	ND	19.60	ND				5563.81
	1.07.20	ND	19.39	ND				5564.02
	6.4.20	ND	19.27	ND				5564.14
	11.24.20[A]	ND	20.66	ND				5562.75
	6.23.21	ND	19.55	ND				5563.86
	12.13.21	ND	19.55	ND				5563.86
	6.15.22	ND	19.36	ND				5564.05
	12.6.22	ND	19.38	ND				5564.03

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TABLE 2
Trunk 6C Kutz Wash
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-6*	9.7.12	ND	18.55	ND	25.50	10.50-25.50	5582.22	5563.67
	12.20.12	ND	18.49	ND				5563.73
	3.20.13	ND	18.27	ND				5563.95
	6.19.13	ND	18.38	ND				5563.84
	9.18.13	ND	18.74	ND				5563.48
	12.16.13	ND	18.46	ND				5563.76
	3.14.14	ND	18.21	ND				5564.01
	9.9.14	ND	18.75	ND				5563.47
	6.10.15	ND	18.16	ND				5564.06
	12.04.15	ND	18.60	ND				5563.62
	6.02.16	ND	18.25	ND				5563.97
	9.16.16	ND	18.86	ND			5581.98	5563.12
	12.19.16	ND	18.61	ND				5563.37
	6.27.17	ND	18.29	ND				5563.69
	1.09.18	ND	18.43	ND				5563.55
	6.21.18	ND	18.47	ND				5563.51
	12.13.18	ND	18.70	ND				5563.28
	8.20.19	ND	18.79	ND				5563.19
	1.07.20	ND	18.61	ND				5563.37
	6.4.20	ND	18.47	ND				5563.51
	11.24.20	ND	18.88	ND				5563.10
	6.23.21	ND	18.74	ND				5563.24
	12.13.21	ND	18.78	ND				5563.20
	6.15.22	ND	18.58	ND				5563.40
	6.15.22	ND	18.58	ND				5563.40
	12.6.22	ND	18.59	ND				5563.39

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TABLE 2
Trunk 6C Kutz Wash
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-7*	9.7.12	ND	19.03	ND	25.85	10.85-25.85	5582.24	5563.21
	12.20.12	ND	18.97	ND				5563.27
	3.20.13	ND	18.79	ND				5563.45
	6.19.13	ND	18.87	ND				5563.37
	9.17.13	ND	19.22	ND				5563.02
	12.16.13	ND	18.46	ND				5563.78
	3.14.14	ND	18.73	ND				5563.51
	9.9.14	ND	19.24	ND				5563.00
	6.10.15	ND	18.65	ND				5563.59
	12.04.15	ND	19.10	ND				5563.14
	6.02.16	ND	18.76	ND				5563.48
	9.16.16	ND	19.37	ND			5582.05	5562.68
	12.19.16	ND	19.13	ND				5562.92
	6.27.17	ND	18.80	ND				5563.25
	1.09.18	ND	18.95	ND				5563.10
	6.21.18	ND	18.98	ND				5563.07
	12.13.18	ND	19.22	ND				5562.83
	8.20.19	ND	19.31	ND				5562.74
	1.07.20	ND	19.14	ND				5562.91
	6.4.20	ND	19.00	ND				5563.05
	11.24.20	ND	19.39	ND				5562.66
	6.23.21	ND	19.26	ND				5562.79
	12.13.21	ND	19.31	ND				5562.74
	6.15.22	ND	19.10	ND				5562.95
	12.6.22	ND	19.12	ND				5562.93

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TABLE 2
Trunk 6C Kutz Wash
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-8*	9.7.12	ND	14.96	ND	24.78	9.78-24.78	5577.81	5562.85
	12.20.12	ND	14.87	ND				5562.94
	3.20.13	ND	14.63	ND				5563.18
	6.19.13	ND	14.74	ND				5563.07
	9.18.13	ND	15.08	ND				5562.73
	12.16.13	ND	14.81	ND				5563.00
	3.14.14	ND	14.53	ND				5563.28
	9.9.14[B]	15.12	15.25	0.13				5562.65
	6.10.15	ND	14.44	ND				5563.37
	12.04.15	ND	14.97	ND				5562.84
	6.02.16	ND	14.61	ND				5563.20
	9.16.16	ND	15.29	ND			5577.47	5562.18
	12.19.16	ND	15.00	ND				5562.47
	6.27.17	ND	14.62	ND				5562.85
	1.09.18	ND	14.80	ND				5562.67
	6.21.18	ND	14.88	ND				5562.59
	12.13.18	ND	15.11	ND				5562.36
	8.20.19	ND	15.22	ND				5562.25
	1.07.20	ND	15.00	ND				5562.47
	6.4.20	ND	14.84	ND				5562.63
	11.24.20	ND	15.26	ND				5562.21
	6.23.21	ND	15.12	ND				5562.35
	12.13.21	ND	15.13	ND				5562.34
	6.15.22	ND	14.92	ND				5562.55
	12.6.22	ND	14.85	ND				5562.62

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TABLE 2
Trunk 6C Kutz Wash
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-9*	9.7.12	ND	17.55	ND	25.78	10.78-25.78	5582.48	5564.93
	12.20.12	ND	17.47	ND				5565.01
	3.20.13	ND	17.28	ND				5565.20
	6.19.13	ND	17.42	ND				5565.06
	9.17.13	ND	17.74	ND				5564.74
	12.16.13	ND	17.48	ND				5565.00
	3.14.14	ND	17.21	ND				5565.27
	9.9.14	ND	17.83	ND				5564.65
	6.10.15	ND	17.18	ND				5565.30
	12.04.15	ND	17.61	ND				5564.87
	6.02.16	ND	17.30	ND				5565.18
	9.16.16	ND	17.94	ND			5582.35	5564.41
	12.19.16	ND	17.60	ND				5564.75
	6.27.17	ND	17.34	ND				5565.01
	1.09.18	ND	17.40	ND				5564.95
	6.21.18	ND	17.49	ND				5564.86
	12.13.18	ND	17.63	ND				5564.72
	8.20.19	ND	17.84	ND				5564.51
	1.07.20	ND	17.57	ND				5564.78
	6.4.20	ND	17.48	ND				5564.87
	11.24.20	ND	17.84	ND				5564.51
	6.23.21	ND	17.79	ND				5564.56
	12.13.21	ND	17.74	ND				5564.61
	6.15.22	ND	17.61	ND				5564.74
	12.7.22	ND	17.55	ND				5564.80

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TABLE 2
Trunk 6C Kutz Wash
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-10*	12.16.13	ND	16.93	ND	21.36	11.36-21.36	5577.80	5560.87
	3.14.14	ND	14.63	ND				5563.17
	9.9.14	ND	15.34	ND				5562.46
	6.10.15	ND	14.58	ND				5563.22
	12.04.15	ND	15.10	ND				5562.70
	6.02.16	ND	14.74	ND				5563.06
	9.16.16	ND	15.49	ND			5578.10	5562.61
	12.19.16	ND	15.12	ND				5562.98
	6.27.17	ND	14.73	ND				5563.37
	1.09.18	ND	14.90	ND				5563.20
	6.21.18	ND	15.05	ND				5563.05
	12.13.18	ND	15.21	ND				5562.89
	8.20.19	ND	15.38	ND				5562.72
	1.07.20	ND	15.09	ND				5563.01
	6.4.20	ND	14.96	ND				5563.14
	11.24.20	ND	15.38	ND				5562.72
	6.23.21	ND	15.27	ND				5562.83
	12.13.21	ND	15.20	ND				5562.90
	6.15.22	ND	15.05	ND				5563.05
	12.6.22	ND	14.88	ND				5563.22

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TABLE 2
Trunk 6C Kutz Wash
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-11*	12.16.13	ND	15.15	ND	21.25	11.25-21.25	5578.65	5563.50
	3.14.14	ND	14.82	ND				5563.83
	9.9.14	ND	15.63	ND				5563.02
	6.10.15	ND	14.76	ND				5563.89
	12.04.15	ND	15.35	ND				5563.30
	6.02.16	ND	14.98	ND				5563.67
	9.16.16	ND	15.74	ND			5579.04	5563.30
	12.19.16	ND	15.35	ND				5563.69
	6.27.17	ND	15.00	ND				5564.04
	1.09.18	ND	15.11	ND				5563.93
	6.21.18	ND	15.28	ND				5563.76
	12.13.18	ND	15.45	ND				5563.59
	8.20.19	ND	15.66	ND				5563.38
	1.07.20	ND	15.32	ND				5563.72
	6.4.20	ND	15.16	ND				5563.88
	11.24.20	ND	15.60	ND				5563.44
	6.23.21	ND	15.53	ND				5563.51
	12.13.21	ND	15.42	ND				5563.62
	6.15.22	ND	15.30	ND				5563.74
	12.6.22	ND	15.10	ND				5563.94

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TABLE 2
Trunk 6C Kutz Wash
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-12*	12.16.13	ND	15.54	ND	21.36	11.36-21.36	5579.99	5564.45
	3.14.14	ND	15.27	ND				5564.72
	9.9.14	ND	15.96	ND				5564.03
	6.10.15	ND	15.22	ND				5564.77
	12.04.15[C]	NG						NG
	6.02.16[C]	NG						NG
	9.16.16[C]	NG					5580.28	NG
	12.19.16[C]	NG						NG
	6.27.17[C]	NG						NG
	1.09.18[C]	NG						NG
	6.21.18[C]	NG						NG
	12.13.18[C]	NG						NG
	8.20.19[C]	NG						NG
	1.07.20[C]	NG						NG
	6.4.20[C]	NG						NG
	11.24.20[C]	NG						NG
	6.23.21[C]	NG						NG
	12.13.21[C]	NG						NG
	6.15.22[C]	NG						NG
	12.6.22	NG						NG

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TABLE 2
Trunk 6C Kutz Wash
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-13*	12.16.13	ND	19.88	ND	25.26	15.26-25.26	5583.03	5563.15
	3.14.14	ND	19.63	ND				5563.40
	9.9.14	ND	20.18	ND				5562.85
	6.10.15	ND	19.57	ND				5563.46
	12.04.15	ND	20.01	ND				5563.02
	6.02.16	ND	19.67	ND				5563.36
	9.16.16	ND	20.27	ND			5583.34	5563.07
	12.19.16	ND	20.03	ND				5563.31
	6.27.17	ND	19.74	ND				5563.60
	1.09.18	ND	19.85	ND				5563.49
	6.21.18	ND	19.89	ND				5563.45
	12.13.18	ND	20.13	ND				5563.21
	8.20.19	ND	20.22	ND				5563.12
	1.07.20	ND	20.02	ND				5563.32
	6.4.20	ND	19.89	ND				5563.45
	11.24.20	ND	20.28	ND				5563.06
	6.23.21	ND	20.16	ND				5563.18
	12.14.21	ND	20.19	ND				5563.15
	6.15.22	ND	20.01	ND				5563.33
	12.6.22	ND	20.02	ND				5563.32
MW-14	9.16.16	ND	14.48	ND	23.01	13.01-23.01	5576.39	5561.91
	12.19.16	ND	14.18	ND				5562.21
	6.27.17	ND	13.83	ND				5562.56
	1.09.18	ND	13.99	ND				5562.40
	6.21.18	ND	14.10	ND				5562.29
	12.13.18	ND	14.33	ND				5562.06
	8.20.19	ND	14.43	ND				5561.96
	1.07.20	ND	14.21	ND				5562.18
	6.4.20	ND	14.05	ND				5562.34
	11.24.20	ND	14.44	ND				5561.95
	6.23.21	ND	14.33	ND				5562.06
	12.13.21	ND	14.31	ND				5562.08
	6.15.22	ND	14.13	ND				5562.26
	12.6.22	ND	14.04	ND				5562.35

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TABLE 2
Trunk 6C Kutz Wash
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-15	9.16.16	ND	16.75	ND	23.15	13.15-23.15	5578.83	5562.08
	12.19.16	ND	16.48	ND				5562.35
	6.27.17	ND	16.12	ND				5562.71
	1.09.18	ND	16.30	ND				5562.53
	6.21.18	ND	16.36	ND				5562.47
	12.13.18	ND	16.60	ND				5562.23
	8.20.19	ND	16.70	ND				5562.13
	1.07.20	ND	16.50	ND				5562.33
	6.4.20	ND	16.35	ND				5562.48
	11.24.20	ND	16.75	ND				5562.08
	6.23.21	ND	16.62	ND				5562.21
	12.13.21	ND	16.64	ND				5562.19
	6.15.22	ND	16.43	ND				5562.40
	12.6.22	ND	16.38	ND				5562.45
MW-17	9.16.16	ND	16.02	ND	22.95	12.95-22.95	5579.86	5563.84
	12.19.16	ND	15.68	ND				5564.18
	6.27.17	ND	15.30	ND				5564.56
	1.09.18	ND	15.45	ND				5564.41
	6.21.18	ND	15.55	ND				5564.31
	12.13.18	ND	15.72	ND				5564.14
	8.20.19	ND	15.91	ND				5563.95
	1.07.20	ND	15.62	ND				5564.24
	6.4.20	ND	15.51	ND				5564.35
	11.24.20	ND	15.90	ND				5563.96
	6.23.21	ND	15.84	ND				5564.02
	12.13.21	ND	15.77	ND				5564.09
	6.15.22	ND	15.62	ND				5564.24
	12.6.22	ND	15.50	ND				5564.36

BTOC - below top of casing
AMSL - above mean sea level
TOC - top of casing
NG - well not gauged

** - The monitoring wells were resurveyed in 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.

[A] - Suspected misgauge
[B] - Field personnel recorded the presence of NAPL utilizing an interface probe, but the product was not visually verified.
[C] - Monitoring well MW-12 was not sampled during the sampling event due to an obstructed well screen/casing.

ENSOLUM

APPENDIX D

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 22, 2022

Kyle Summers

ENSOLUM
606 S Rio Grande Ste A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: Trunk 6 C Kutz Wash OrderNo.: 2206871

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/16/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206871**
Date Reported: **6/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-2
Project: Trunk 6 C Kutz Wash
Collection Date: 6/15/2022 10:05:00 AM
Lab ID: 2206871-001
Matrix: AQUEOUS
Received Date: 6/16/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/21/2022 12:03:20 PM	R88920
Toluene	ND	1.0		µg/L	1	6/21/2022 12:03:20 PM	R88920
Ethylbenzene	ND	1.0		µg/L	1	6/21/2022 12:03:20 PM	R88920
Xylenes, Total	ND	2.0		µg/L	1	6/21/2022 12:03:20 PM	R88920
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	6/21/2022 12:03:20 PM	R88920

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

Qualifiers:

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

Analytical Report
Lab Order **2206871**
Date Reported: **6/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-17
Project: Trunk 6 C Kutz Wash
Collection Date: 6/15/2022 10:50:00 AM
Lab ID: 2206871-002 **Matrix:** AQUEOUS **Received Date:** 6/16/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	2.4	1.0		µg/L	1	6/21/2022 12:26:49 PM	R88920
Toluene	ND	1.0		µg/L	1	6/21/2022 12:26:49 PM	R88920
Ethylbenzene	ND	1.0		µg/L	1	6/21/2022 12:26:49 PM	R88920
Xylenes, Total	ND	2.0		µg/L	1	6/21/2022 12:26:49 PM	R88920
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	6/21/2022 12:26:49 PM	R88920

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

Qualifiers:

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

Analytical Report
Lab Order **2206871**
Date Reported: **6/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-1
Project: Trunk 6 C Kutz Wash
Collection Date: 6/15/2022 11:25:00 AM
Lab ID: 2206871-003 **Matrix:** AQUEOUS **Received Date:** 6/16/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	230	5.0		µg/L	5	6/22/2022 2:07:50 AM	R88920
Toluene	7.4	5.0		µg/L	5	6/22/2022 2:07:50 AM	R88920
Ethylbenzene	35	5.0		µg/L	5	6/22/2022 2:07:50 AM	R88920
Xylenes, Total	86	10		µg/L	5	6/22/2022 2:07:50 AM	R88920
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	5	6/22/2022 2:07:50 AM	R88920

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206871**

22-Jun-22

Client: ENSOLUM

Project: Trunk 6 C Kutz Wash

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R88920**	RunNo: **88920**
Prep Date:	Analysis Date: **6/21/2022**	SeqNo: **3157711** 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	2.0								
Surr: 4-Bromofluorobenzene	18		20.00		91.2	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R88920**	RunNo: **88920**
Prep Date:	Analysis Date: **6/21/2022**	SeqNo: **3157712** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.0	80	120			
Toluene	19	1.0	20.00	0	92.8	80	120			
Ethylbenzene	19	1.0	20.00	0	92.6	80	120			
Xylenes, Total	56	2.0	60.00	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		91.9	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2206871 RcptNo: 1

Received By: **Juan Rojas** 6/16/2022 6:50:00 AM

Completed By: **Tracy Casarrubias** 6/16/2022 8:38:02 AM

Reviewed By: JR 6/16/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

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 ☐	
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?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: KPA 6.16.22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Trunk C Kutz Wash

Project #: 05A1226011

Project Manager: K. Summers

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.4-0.2=0.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2206871
6/15/22	10:05	W	MW-2	3x40mL VOA	H_2SO_4	001
6/15/22	10:50	W	MW-17	3x40mL VOA		002
6/15/22	11:25	W	MW-1	3x40mL VOA		003

Analysis Request

BTEX / ~~MTBE~~ / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)							
X																
X																
X																

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/15/22	1545				6/15/22	1545
6/15/22	1802			courier	6/16/22	6:50

Remarks: Bill to Ensolum

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 19, 2022

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

RE: Trunk 6C Kutz Wash OrderNo.: 2212338

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 12/7/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2212338**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-7
Project: Trunk 6C Kutz Wash **Collection Date:** 12/6/2022 12:05:00 PM
Lab ID: 2212338-001 **Matrix:** AQUEOUS **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/12/2022 11:47:00 PM	R93215
Toluene	ND	1.0		µg/L	1	12/12/2022 11:47:00 PM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/12/2022 11:47:00 PM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/12/2022 11:47:00 PM	R93215
Surr: 1,2-Dichloroethane-d4	83.8	70-130		%Rec	1	12/12/2022 11:47:00 PM	R93215
Surr: Dibromofluoromethane	92.3	70-130		%Rec	1	12/12/2022 11:47:00 PM	R93215
Surr: Toluene-d8	92.9	70-130		%Rec	1	12/12/2022 11:47:00 PM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212338**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-15
Project: Trunk 6C Kutz Wash **Collection Date:** 12/6/2022 12:35:00 PM
Lab ID: 2212338-002 **Matrix:** AQUEOUS **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 12:55:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 12:55:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 12:55:00 AM	R93215
Xylenes, Total	5.2	1.5		µg/L	1	12/13/2022 12:55:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	79.0	70-130		%Rec	1	12/13/2022 12:55:00 AM	R93215
Surr: Dibromofluoromethane	87.8	70-130		%Rec	1	12/13/2022 12:55:00 AM	R93215
Surr: Toluene-d8	95.9	70-130		%Rec	1	12/13/2022 12:55:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212338**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-14
Project: Trunk 6C Kutz Wash **Collection Date:** 12/6/2022 1:10:00 PM
Lab ID: 2212338-003 **Matrix:** AQUEOUS **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 1:18:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 1:18:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 1:18:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 1:18:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	83.0	70-130		%Rec	1	12/13/2022 1:18:00 AM	R93215
Surr: Dibromofluoromethane	91.2	70-130		%Rec	1	12/13/2022 1:18:00 AM	R93215
Surr: Toluene-d8	91.4	70-130		%Rec	1	12/13/2022 1:18:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212338**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-10
Project: Trunk 6C Kutz Wash **Collection Date:** 12/6/2022 1:30:00 PM
Lab ID: 2212338-004 **Matrix:** AQUEOUS **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 1:40:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 1:40:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 1:40:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 1:40:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	84.4	70-130		%Rec	1	12/13/2022 1:40:00 AM	R93215
Surr: Dibromofluoromethane	91.7	70-130		%Rec	1	12/13/2022 1:40:00 AM	R93215
Surr: Toluene-d8	91.7	70-130		%Rec	1	12/13/2022 1:40:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212338**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-8
Project: Trunk 6C Kutz Wash **Collection Date:** 12/6/2022 1:40:00 PM
Lab ID: 2212338-005 **Matrix:** AQUEOUS **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 2:03:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 2:03:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 2:03:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 2:03:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	84.2	70-130		%Rec	1	12/13/2022 2:03:00 AM	R93215
Surr: Dibromofluoromethane	91.0	70-130		%Rec	1	12/13/2022 2:03:00 AM	R93215
Surr: Toluene-d8	90.9	70-130		%Rec	1	12/13/2022 2:03:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212338**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-11
Project: Trunk 6C Kutz Wash **Collection Date:** 12/6/2022 2:00:00 PM
Lab ID: 2212338-006 **Matrix:** AQUEOUS **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 2:26:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 2:26:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 2:26:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 2:26:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	83.0	70-130		%Rec	1	12/13/2022 2:26:00 AM	R93215
Surr: Dibromofluoromethane	92.4	70-130		%Rec	1	12/13/2022 2:26:00 AM	R93215
Surr: Toluene-d8	90.3	70-130		%Rec	1	12/13/2022 2:26:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212338**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-3
Project: Trunk 6C Kutz Wash **Collection Date:** 12/6/2022 2:10:00 PM
Lab ID: 2212338-007 **Matrix:** AQUEOUS **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 2:49:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 2:49:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 2:49:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 2:49:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	82.9	70-130		%Rec	1	12/13/2022 2:49:00 AM	R93215
Surr: Dibromofluoromethane	92.3	70-130		%Rec	1	12/13/2022 2:49:00 AM	R93215
Surr: Toluene-d8	89.6	70-130		%Rec	1	12/13/2022 2:49:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212338**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-13
Project: Trunk 6C Kutz Wash **Collection Date:** 12/6/2022 2:30:00 PM
Lab ID: 2212338-008 **Matrix:** AQUEOUS **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 3:11:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 3:11:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 3:11:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 3:11:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	83.8	70-130		%Rec	1	12/13/2022 3:11:00 AM	R93215
Surr: Dibromofluoromethane	93.5	70-130		%Rec	1	12/13/2022 3:11:00 AM	R93215
Surr: Toluene-d8	90.9	70-130		%Rec	1	12/13/2022 3:11:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212338**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** Trip Blank
Project: Trunk 6C Kutz Wash **Collection Date:**
Lab ID: 2212338-009 **Matrix:** AQUEOUS **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 3:34:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 3:34:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 3:34:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 3:34:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	84.7	70-130		%Rec	1	12/13/2022 3:34:00 AM	R93215
Surr: Dibromofluoromethane	92.8	70-130		%Rec	1	12/13/2022 3:34:00 AM	R93215
Surr: Toluene-d8	90.7	70-130		%Rec	1	12/13/2022 3:34:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212338**

19-Dec-22

Client: ENSOLUM

Project: Trunk 6C Kutz Wash

Sample ID: **100ng lcs 2**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R93215**	RunNo: **93215**
Prep Date:	Analysis Date: **12/12/2022**	SeqNo: **3359432** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	8.4		10.00		84.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.1	70	130			
Surr: Toluene-d8	9.4		10.00		93.5	70	130			

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R93215**	RunNo: **93215**
Prep Date:	Analysis Date: **12/12/2022**	SeqNo: **3359433** 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	8.7		10.00		86.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.1	70	130			
Surr: Toluene-d8	9.1		10.00		91.1	70	130			

Sample ID: **2212338-001ams**	SampType: **MS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-7**	Batch ID: **R93215**	RunNo: **93215**
Prep Date:	Analysis Date: **12/13/2022**	SeqNo: **3359435** 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			
Toluene	21	1.0	20.00	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	8.3		10.00		82.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.7	70	130			
Surr: Dibromofluoromethane	8.9		10.00		89.4	70	130			
Surr: Toluene-d8	9.4		10.00		93.9	70	130			

Sample ID: **2212338-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-7**	Batch ID: **R93215**	RunNo: **93215**
Prep Date:	Analysis Date: **12/13/2022**	SeqNo: **3359436** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.8	70	130	3.53	20	
Toluene	20	1.0	20.00	0	102	70	130	3.41	20	

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212338**

19-Dec-22

Client: ENSOLUM

Project: Trunk 6C Kutz Wash

Sample ID: **2212338-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-7**	Batch ID: **R93215**	RunNo: **93215**
Prep Date:	Analysis Date: **12/13/2022**	SeqNo: **3359436** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.2		10.00		81.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130	0	0	
Surr: Dibromofluoromethane	8.9		10.00		88.7	70	130	0	0	
Surr: Toluene-d8	9.4		10.00		93.5	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2212338 RcptNo: 1

Received By: Juan Rojas 12/7/2022 7:10:00 AM

Completed By: Tracy Casarrubias 12/7/2022 11:13:29 AM

Reviewed By: JR 12/7/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

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 ☐	
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?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: TME 12/7/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: Ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Trunk 6C Kutz Wash

Project #: 05A1226011

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 0.3+0.1=0.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2212339	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/6/22	12:05	W	MW-7	3x40mL VOA	$HgCl_2$	001	X									
12/6/22	12:35	W	MW-15			002	X									
12/6/22	13:10	W	MW-14			003	X									
12/6/22	13:30	W	MW-10			004	X									
12/6/22	13:40	W	MW-8			005	X									
12/6/22	14:00	W	MW-11			006	X									
12/6/22	14:10	W	MW-3			007	X									
12/6/22	14:30	W	MW-13			008	X									
			Trip Blank			009										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/6/22	1536				12/6/22	1536
12/6/22	1710				12/7/22	7:10

Remarks: Bill to Ensolum

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 19, 2022

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

RE: Trunk 6C Kutz Wash OrderNo.: 2212499

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 12/8/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2212499**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-6
Project: Trunk 6C Kutz Wash
Collection Date: 12/7/2022 11:05:00 AM
Lab ID: 2212499-001 **Matrix:** AQUEOUS **Received Date:** 12/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 3:57:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 3:57:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 3:57:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 3:57:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	83.4	70-130		%Rec	1	12/13/2022 3:57:00 AM	R93215
Surr: Dibromofluoromethane	90.9	70-130		%Rec	1	12/13/2022 3:57:00 AM	R93215
Surr: Toluene-d8	90.4	70-130		%Rec	1	12/13/2022 3:57:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212499**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-5
Project: Trunk 6C Kutz Wash
Collection Date: 12/7/2022 11:30:00 AM
Lab ID: 2212499-002 **Matrix:** AQUEOUS **Received Date:** 12/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 4:20:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 4:20:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 4:20:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 4:20:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	84.2	70-130		%Rec	1	12/13/2022 4:20:00 AM	R93215
Surr: Dibromofluoromethane	91.5	70-130		%Rec	1	12/13/2022 4:20:00 AM	R93215
Surr: Toluene-d8	90.3	70-130		%Rec	1	12/13/2022 4:20:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212499**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-9
Project: Trunk 6C Kutz Wash **Collection Date:** 12/7/2022 11:55:00 AM
Lab ID: 2212499-003 **Matrix:** AQUEOUS **Received Date:** 12/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 4:42:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 4:42:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 4:42:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 4:42:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	82.6	70-130		%Rec	1	12/13/2022 4:42:00 AM	R93215
Surr: Dibromofluoromethane	93.4	70-130		%Rec	1	12/13/2022 4:42:00 AM	R93215
Surr: Toluene-d8	88.3	70-130		%Rec	1	12/13/2022 4:42:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212499**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-4
Project: Trunk 6C Kutz Wash
Collection Date: 12/7/2022 12:55:00 PM
Lab ID: 2212499-004 **Matrix:** AQUEOUS **Received Date:** 12/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 5:05:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 5:05:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 5:05:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 5:05:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	86.0	70-130		%Rec	1	12/13/2022 5:05:00 AM	R93215
Surr: Dibromofluoromethane	94.9	70-130		%Rec	1	12/13/2022 5:05:00 AM	R93215
Surr: Toluene-d8	89.3	70-130		%Rec	1	12/13/2022 5:05:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212499**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-2
Project: Trunk 6C Kutz Wash **Collection Date:** 12/7/2022 1:15:00 PM
Lab ID: 2212499-005 **Matrix:** AQUEOUS **Received Date:** 12/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/13/2022 5:28:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 5:28:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 5:28:00 AM	R93215
Xylenes, Total	ND	1.5		µg/L	1	12/13/2022 5:28:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	84.9	70-130		%Rec	1	12/13/2022 5:28:00 AM	R93215
Surr: Dibromofluoromethane	93.1	70-130		%Rec	1	12/13/2022 5:28:00 AM	R93215
Surr: Toluene-d8	89.8	70-130		%Rec	1	12/13/2022 5:28:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212499**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-17
Project: Trunk 6C Kutz Wash **Collection Date:** 12/7/2022 1:35:00 PM
Lab ID: 2212499-006 **Matrix:** AQUEOUS **Received Date:** 12/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	36	1.0		µg/L	1	12/13/2022 5:51:00 AM	R93215
Toluene	ND	1.0		µg/L	1	12/13/2022 5:51:00 AM	R93215
Ethylbenzene	ND	1.0		µg/L	1	12/13/2022 5:51:00 AM	R93215
Xylenes, Total	2.6	1.5		µg/L	1	12/13/2022 5:51:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	83.8	70-130		%Rec	1	12/13/2022 5:51:00 AM	R93215
Surr: Dibromofluoromethane	89.9	70-130		%Rec	1	12/13/2022 5:51:00 AM	R93215
Surr: Toluene-d8	94.2	70-130		%Rec	1	12/13/2022 5:51:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212499**
Date Reported: **12/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-1
Project: Trunk 6C Kutz Wash **Collection Date:** 12/7/2022 2:05:00 PM
Lab ID: 2212499-007 **Matrix:** AQUEOUS **Received Date:** 12/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	400	20		µg/L	20	12/13/2022 6:14:00 AM	R93215
Toluene	30	20		µg/L	20	12/13/2022 6:14:00 AM	R93215
Ethylbenzene	64	20		µg/L	20	12/13/2022 6:14:00 AM	R93215
Xylenes, Total	160	30		µg/L	20	12/13/2022 6:14:00 AM	R93215
Surr: 1,2-Dichloroethane-d4	78.8	70-130		%Rec	20	12/13/2022 6:14:00 AM	R93215
Surr: Dibromofluoromethane	85.0	70-130		%Rec	20	12/13/2022 6:14:00 AM	R93215
Surr: Toluene-d8	96.0	70-130		%Rec	20	12/13/2022 6:14:00 AM	R93215

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212499**

21-Dec-22

Client: ENSOLUM

Project: Trunk 6C Kutz Wash

Sample ID: **100ng lcs 2**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R93215**	RunNo: **93215**
Prep Date:	Analysis Date: **12/12/2022**	SeqNo: **3359432** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	8.4		10.00		84.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.1	70	130			
Surr: Toluene-d8	9.4		10.00		93.5	70	130			

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R93215**	RunNo: **93215**
Prep Date:	Analysis Date: **12/12/2022**	SeqNo: **3359433** 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	8.7		10.00		86.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.1	70	130			
Surr: Toluene-d8	9.1		10.00		91.1	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM | Work Order Number: 2212499 | RcptNo: 1

Received By: Tracy Casarrubias 12/8/2022 7:20:00 AM

Completed By: Tracy Casarrubias 12/8/2022 11:20:36 AM

Reviewed By: SGL 12/9/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

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 ☐	
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?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPA 12-9-22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Trunk 6C Kutz wash

Project #: 05A1226011

Project Manager: K. Summer

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 1.4-0.1=1.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2212499	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/7/22	11:05	W	MW-7	3x40mL VOA	$HgCl_2$	001	X									
12/7/22	11:30	W	MW-5			002	X									
12/7/22	11:55	W	MW-9			003	X									
12/7/22	12:55	W	MW-4			004	X									
12/7/22	13:15	W	MW-2			005	X									
12/7/22	13:35	W	MW-17			006	X									
12/7/22	14:05	W	MW-1			007	X									

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/7/22	1551				12/7/22	1551
12/7/22	1815			courier	12/8/22	7:20

Remarks: Bill to Ensolum

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

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush_____

Project Name: Trunk 6C Kutz wash

Project #: 05A1226011

Project Manager: K. Summer

Sampler: L. Daniel

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/7/22	11:05	W	MW-7 6LD	3x40mL VOA	$HgCl_2$		X									
12/7/22	11:30	W	MW-5				X									
12/7/22	11:55	W	MW-9				X									
12/7/22	12:55	W	MW-4				X									
12/7/22	13:15	W	MW-2				X									
12/7/22	13:35	W	MW-17				X									
12/7/22	14:05	W	MW-1				X									

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/7/22	1551				12/7/22	1531
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Bill to Ensolum

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.

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 264931

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 264931
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2021 GW Monitoring Report for Trunk 6C Pipeline--Kutz Wash Release: Content Satisfactory 1 Continue semi-annual groundwater monitoring at the site. 2. As approved by NMOCD, suspension of sampling wells may commence: 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. 3. Submit the 2023 Annual Groundwater Report for the site no later than April 1, 2024. Review of the 2022 GW Monitoring Abatement Plan for Trunk 6C Pipeline-Kutz Wash Release: Content Satisfactory 1. Continue to monitor on a semi-annual basis while Stage 1 Abatement is awaiting approval. 2. Upload Stage 1 Abatement Plan into the Incident file for consideration. 3. Continue to submit and upload 2023 GW Monitoring Report by or before April 1, 2024.	9/15/2023