THREE NOTCH GROUP

REMLAP SUPER SAVER

CAP EVALUATION/DEVELOPMENT REPORT (APRIL 2025) ATTF CP-08

April 30, 2025

17373 Highway 75 & Pine Mountain Road

Remlap, Blount Co., AL

FAC ID 24585-009-007057

UST 23-01-03

PREPARED FOR

Dharma Bhakti, LLC.
17373 Highway 75
Remlap, AL 35133

PREPARED BY

Three Notch Group
700 Southgate Dr, Suite A
Pelham, AL 35124

CERTIFICATION PAGE

"I hereby certify that, in my professional judgment, the components of this document and associated work satisfy the applicable requirements set forth in Chapter 335-6 of the ADEM Administrative Code, and are consistent with generally accepted professional consulting principles and practices. The information submitted herein, to the best of my knowledge and belief, is true accurate, and complete. I am aware that there are significant penalties for submitting false information."

This document has been prepared based on historical site assessment data and has been prepared to address soil and groundwater contamination at the Remlap Super Saver site (Facility Identification Number 24585-009-007057) in Remlap, Blount County, Alabama. The recommended action should not be construed to apply to any other site.

Signature

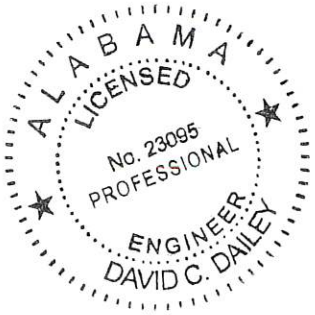
4/30/2025

Date

David C. Dailey

Registered Professional Engineer in the State of Alabama

Registration No. 23095



INTRODUCTION

The Remlap Super Saver facility is a commercial property that operates as a gasoline station and convenience store. Reportedly, four underground storage tanks (USTs) are located on the site including one 12,000 gallon tri-compartment premium unleaded gasoline, off-road diesel, and ethanol free unleaded gasoline UST, two 6,000-gallon unleaded gasoline USTs, and one 6,000-gallon on road diesel UST. The three 6,000-gallon USTs are located in the tank pit northeast of the dispenser island in front of the store building. The 12,000-gallon UST is located southwest of the store building next to the new canopy and dispenser island. The Alabama Tank Trust Fund (ATTF) responsible party for the Remlap Super Saver site is Dharma Bhakti, LLC.

On May 27, 2022, CDG, Inc. (CDG) conducted product piping closure by removal after a vehicle had struck the dispenser which broke the piping. CDG submitted a UST closure report to the Alabama Department of Environmental Management (ADEM) on June 13, 2022. Based on the results of the UST Closure Assessment, ADEM sent the responsible party, Dharma Bhakti, LLC, a Notification of Requirement (NOR) to conduct Investigative and Corrective Actions. Mr. Dinesh Patel with Dharma Bhakti, LLC contracted Three Notch Group, Inc. (Three Notch) as the ATTF contractor.

To date, Preliminary Investigation, Secondary Investigation, Alabama Risk Based Corrective Action (ARBCA) evaluation, and groundwater monitoring activities have been completed at the site. Currently, there are a total of eight Type II monitoring wells and one Type III vertical delineation well at the site.

In order to address the on-site dissolved hydrocarbon plume, ADEM requested that a Corrective Action Plan (CAP) Evaluation be prepared for the site. The following report details the CAP Evaluation as approved under CP-08.

SUMMARY OF PREVIOUSLY CONDUCTED CORRECTIVE ACTIONS

To date, five groundwater monitoring events have been conducted at the site between May 2020 and December 2024.

REMEDIAL OBJECTIVES AND SITE CHARACTERIZATION

General Remedial Objectives

The general objectives of the corrective action activities for the facility are as follows:

- Ensure that the health and safety of all project personnel is maintained during remediation activities.
- Prevent hydrocarbon contaminant migration to sensitive receptors.
- Remove free product from the site subsurface if present.
- Reduce adsorbed phase petroleum hydrocarbons from soils within the vadose and saturated zone, to below approved Site-Specific Target Levels (SSTLs).
- Reduce dissolved petroleum hydrocarbons from groundwater to below proposed SSTLs.
- Accomplish these objectives in a timely and cost-effective manner.

Vadose Zone Soil Characterization

Soil borings previously conducted during the Preliminary and Secondary Investigations were reviewed to determine the subsurface soil conditions and the feasibility of the various remediation options for the site. The chemicals of concern (COCs) for the release at the site include benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary-butyl ether (MTBE), and naphthalene. Figures located in Appendix B show the soil boring and sample locations and the distribution of soil COC concentrations across the site. The vadose zone soils are predominantly comprised of silty clays with an average porosity of 29.9%. The average volumetric moisture content within the vadose zone was measured to be 33.6%.

Aquifer Characterization

The analytical results of the groundwater samples collected during the site characterization activities are summarized in the tables located in Appendix A. The average historical depth to groundwater beneath the site is approximately 14.72 feet below land surface (ft-bls). Based on the most recent groundwater level measurements collected during the December 5, 2024 sampling event, a potentiometric surface map was constructed for the site. As shown in the figures located in Appendix B, the general groundwater flow direction beneath the site is to the east. The hydraulic gradient (i) was approximately 0.073 cm/cm based on data from the approved ARBCA.

Slug testing conducted during the Secondary Investigation activities indicated that the average hydraulic conductivity (K) of the site soils was approximately 1.63 x 10^{-5} cm/yr. Based on these values, the anticipated Darcy velocity (Ki) of groundwater flow beneath the site would be approximately 37.6 cm/yr. Free phase product has been historically observed in MW-3 during the

assessment activities at the site. Using the analytical data from the December 5, 2024 groundwater sampling event, a groundwater analytical and benzene contour map was constructed to represent the approximate extent of the current dissolved phase hydrocarbon plume. All site figures are included in Appendix B.

Exposure Assessment

An exposure assessment was conducted by Three Notch during the ARBCA evaluation. The current land use site conceptual exposure model indicates that complete exposure pathways exist on-site for indoor and outdoor vapor inhalation from soil and groundwater for commercial and construction workers and for dermal contact with affected soil by construction workers. No complete exposure pathways exist for exposure for either soil or groundwater for off-site residents, commercial workers, or construction workers. Future land use of the site and the surrounding area is expected to remain the same.

Site-Specific Target Levels

To assess the risk to human health and the environment of the dissolved hydrocarbon plume associated with the Remlap Super Saver site, an ARBCA Tier I/Tier II Evaluation was performed in December 2024. Based on the ARBCA Tier II Evaluation, SSTLs for site remediation were calculated for the various media (soil and groundwater) at the site. The SSTLs developed during this process, which have been approved by ADEM, would not pose a significant risk to any recognized actual or potential receptors. The SSTLs for soil and groundwater are summarized in the following table.

Chemicals of Concern	Soil (mg/Kg)				Groundwater (mg/L)	
	Dermal Contact	On-Site Indoor Inhalation	Off-Site Indoor Inhalation	Groundwater Resource Protection	On-Site Indoor Inhalation	Off-Site Indoor Inhalation
Benzene	406	0.175	NA	0.603	30.6	NA
Toluene	229	29.6	NA	121	526	NA
Ethylbenzene	102	102	NA	84.5	169	NA
Xylenes	125	41.7	NA	175	175	NA
MTBE	378	457	NA	2.41	48,000	NA
Naphthalene	95.7	34.7	NA	2.41	31	NA

A more detailed presentation of these values is provided in the December 2024 ARBCA Evaluation Report. The individual Groundwater Resource Protection (GRP) SSTLs generated for the site monitoring wells are presented on the attached Monitoring Point Data Summary Tables located in Appendix A.

SUMMARY OF SITE CHARACTERIZATION

Soil Characterization Summary

The results of the geotechnical analyses indicate the following physical properties for the soils at the Remlap Super Saver site:

- The vadose zone soils are comprised of silty clay.
- Soil has a porosity of 29.9%.
- Volumetric moisture content within the vadose zone was calculated to be 33.6%.

Aquifer Characterization Summary

The results of the aquifer characterization at the site indicate the following physical properties for the unconfined groundwater zone beneath the site:

- The average depth to groundwater is 14.72 ft-bls.
- The average hydraulic conductivity within the saturated zone is 1.63×10^{-5} cm/yr.
- The general groundwater flow beneath the site is to the east.
- The average hydraulic gradient across the site is 0.073 cm/cm.
- The calculated Darcy velocity for groundwater flow is 37.6 cm/yr.
- Measurable accumulations of free phase product have been detected at the site in MW-3.

Exposure/Risk Assessment Summary

Based upon current constituent concentrations and the risk assessment results, SSTLs were calculated for the site using the ARBCA process. There are complete exposure pathways for vapor inhalation from both soil and groundwater on and off-site. The Point of Exposure (POE) used during the ARBCA was a hypothetical point approximately 500 feet downgradient from the property boundary plus the distance from the downgradient edge of the source area to the downgradient edge of the property boundary, totaling 540 feet.

The BTEX/MTBE/Naphthalene analyses for the December 5, 2024 groundwater monitoring event indicate that benzene and/or naphthalene concentrations were present at the site at levels above SSTLs for GRP in three (MW-3, MW-4, and RW-1) of the fifteen sampled monitoring wells. Additionally, one (MW-4) of the monitoring wells contained concentrations above the approved SSTLs for Indoor Air Inhalation. The presence of dissolved hydrocarbon concentrations above the SSTLs will require remediation.

REMEDIATION RATIONAL AND APPROACH

Based upon current constituent concentrations and the risk assessment results, there are exceedances in the GRP SSTLs and Indoor Air Inhalation SSTLs.

Full-scale technologies addressing both soil and groundwater were reviewed for applicability to the Remlap Super Saver site. The discussion is divided into media (soil and groundwater) and in-situ/ex-situ technologies.

Soil: Ex-Situ Methods

The most direct methods of remediation would be the excavation and removal of source soils. Based on soil screening and analytical data, source soils appear to exist at the site in the vicinity of MW-3 to a depth of approximately 10 ft-bls and groundwater has been present in this area at 13.78-18.04 ft-bls. The excavation would not require de-watering in order to complete the source soil removal and would appear to me limited to a target area adjacent to MW-3. The excavation of the impacted soils at the site would be a possible option in the future.

Soil: In-Situ Methods

Bioremediation

Remediation of soil contamination using in-situ bioremediation involves injecting oxygen or oxygen releasing compounds directly into the source zone. The oxygen is then used to accelerate the rate of naturally occurring aerobic contaminant biodegradation in saturated soils. Volatile organic compounds in high concentrations are toxic to bacteria (EPA, 1992). Because of the moderate concentrations of dissolved phase hydrocarbons present in the source area, bioremediation is a viable remediation alternative.

Soil Vapor Extraction

Soil vapor extraction (SVE) reduces concentrations of volatile constituents in petroleum products adsorbed to soils in the unsaturated (vadose) zone. Data collected to date indicates the vadose zone soils have an effective porosity of 14.95% and low intrinsic permeability that would inhibit the effective recovery of volatile product vapors. If the moisture content of vadose zone soils was to be lowered by prolonged operation of an SVE system, the intrinsic permeability will likely increase and therefore the radius of influence (ROI) would also increase. Low permeability in the soils encountered would require a soil-vapor extraction well network with a well-to-well spacing of less than 30 feet to be effective. However, without having completed pilot testing at the site, the ROI can only be estimated based on site characteristics observed during the investigation activities. Based on the available data, SVE is a viable remediation method for the soil source-area contamination at the site.

Groundwater: Ex-Situ Methods

Pump and Treat

Generally, for pump and treat systems to be effective, a significant capture zone must be developed. An adequate capture zone would be able to contain a dissolved phase contaminant plume, halting migration. While pump and treat methods are effective in reducing groundwater constituent concentrations and limiting off-site migrations, they do not adequately address vapor phase and absorbed phase hydrocarbon contamination at the source. Because of the presence of elevated dissolved hydrocarbon concentrations in the groundwater beneath the site, some form of groundwater treatment is recommended.

Multi-Phase Extraction

Multi-Phase Extraction (MPE) involves applying vacuum to remove liquid and vapor phase contaminants from permeable, heterogeneous soils. MPE typically provides a more efficient remedial approach as opposed to conventional pump and treat technology. The application of a vacuum to a well increases the hydraulic driving force that enables groundwater to flow into a well, while conventional pumping relies mainly on a difference in elevation head. In addition, conventional pump and treat methodology is not successful in addressing vapor phase and absorbed phase hydrocarbon contamination. The need for vapor phase and absorbed phase hydrocarbon contaminant removal in the soil source area and for dissolved-phase hydrocarbon contaminant removal in the groundwater plume could be efficiently performed with the use of a dual

phase extraction system. However, the capital costs of system installation and system operation and maintenance may not be justified based on the magnitude and limited extent of the dissolved hydrocarbon plume. The technical specifications for the MEME system are presented in Appendix F.

Groundwater: In-Situ Methods

In-situ treatment of groundwater includes the following biological enhancement technologies: oxygen enhancement (peroxide injection, oxygen sparging), the addition of nitrates, methanotrophic degradation, and natural attenuation (EPA, 1995). Chemical oxidation is another form of in-situ groundwater treatment technology.

Bioremediation

Biologic degradation of petroleum organics does not occur in proximity to gasoline free product or areas of high concentrations of volatile organic compounds (EPA, 1992). Given the presence of free phase hydrocarbons in the target area, bioremediation is not a viable remediation alternative for the site at this time. Bioremediation could be considered as a corrective action approach in the future after removal of the free phase product.

Air Sparging

Air sparging technology involves the injection of air into saturated zones in effect creating a subsurface air stripper, which removes contaminants through volatilization. Air sparging technologies are designed to operate at high airflow rates to effect volatilization. Air sparging systems are typically operated in tandem with SVE systems in order to capture contaminants stripped from the saturated zone. Contaminant migration can be induced if a net positive subsurface pressure is created (EPA, 1995). Channeling of airflow can occur in heterogeneous formations, potentially off-gassing in undesirable locations such as on-site buildings and utility conveyances. These potential negative effects can be minimized by proper design.

Chemical Oxidation

Chemical oxidation uses reagents to transform, degrade, or immobilize organic wastes. In-Situ Chemical Oxidation (ISCO) relies on the destructive capacity of oxidants to chemically destroy the bonds of the hydrocarbons. Complete chemical oxidation of gasoline would produce carbon dioxide and water. Chemical oxidants work by producing free radicals, such as the hydroxyl radical,

which oxidize the petroleum hydrocarbons. Several commonly used chemical oxidants have been used for in-situ applications on petroleum hydrocarbons and MTBE, including hydrogen peroxide, Fenton's Reagent (hydrogen peroxide with an iron catalyst, frequently performed at a low pH), sodium persulfate, and ozone.

ISCO is most often utilized at sites with elevated COC concentrations in the source area. Chemical oxidation of high concentration areas is often part of a multi-step remediation approach that paves the way for more biologically mediated such as accelerated bioremediation or monitored natural attenuation.

Based on the limited size and location of the contaminant plume in relation to the convenience store and underground utilities within the target area, the application of ISCO in sufficient quantities to address the current contaminant concentrations is a viable treatment option at the Remlap Super Saver site.

Natural Attenuation

Natural attenuation is the process by which dilution, volatilization, biodegradation, adsorption, and chemical reactivity are allowed to reduce contaminant concentrations to acceptable levels. Natural attenuation is applicable in low-risk cases where active remediation is technically impracticable or deemed unnecessary due to contaminant concentrations at or below levels where natural processes can prevent plume migration. Extensive site-specific data collection is required to effectively model natural attenuation. The risks posed by the contaminants at the Remlap Super Saver site warrant an active remediation approach to accelerate the reduction of dissolved hydrocarbon concentrations in the source area. Natural attenuation could be considered as the sole method for future remediation once dissolved hydrocarbon concentrations have dropped to levels where natural processes can effectively attenuate the residual hydrocarbon constituents.

REMEDIATION RECOMMENDATION PLAN

After consideration of the methods discussed above and based on data collected during previous site characterization studies, the application of periodic MEME events in conjunction with natural attenuation monitoring is being recommended as the remediation method to address the release at the Remlap Super Saver site.

The MEME unit operates with continuously monitored off-gas treatment (thermal destruction). Recovered groundwater (and free product) will be pumped to a temporary storage tank for later disposal by the MEME operator at an approved facility according to ADEM requirements. Prior to recovery activities, static water levels in all extraction wells will be recorded. A drop-tube will be inserted into the extraction wells and lowered as necessary to maximize recovery. Applied vacuums in the extraction wells and casing vacuums in surrounding monitoring wells will be recorded periodically during operations. Water level measurements will also be obtained periodically from surrounding wells to determine the radius of influence. Measurements of flow and hydrocarbon concentrations will also be obtained periodically. Field measurements will be obtained using a calibrated FID instrument. Hydrocarbon removal rates will be calculated and plotted. Cumulative fluid recovery volumes will be measured and recorded to determine removal rates.

Recovery Well Installation

To provide an effective capture zone within the target area on the site, Three Notch recommends that two 4-inch diameter recovery wells be installed at the site adjacent to MW-3. The wells will be drilled to a depth of approximately 25 ft-bls using a track-mounted hollow-stem auger drilling rig or a track-mounted sonic drilling rig using hollow core barrels. The wells will be constructed with 10 feet of 4-inch diameter schedule 40 PVC casing and 15 feet of 0.020" slotted PVC screen with an attached silt trap. The annular space of each borehole will be filled with coarse graded 6/10 filter sand from the bottom of the borehole to a level of approximately two feet above the top of the screened interval. A two-foot granular bentonite seal will be placed above the sand pack and hydrated for at least two hours. The wells will then be grouted to a level just below the ground surface. Each recovery well will be completed at the surface with a metal manway with bolt-down steel covers secured by a concrete pad. A Typical Recovery Well Construction Detail is included in Appendix B.

Soil samples will be collected during installation of the two proposed recovery wells (RW-1 and RW-2). As the soil borings are advanced, soil core samples will be collected using either a 5-foot continuous core-barrel sampler advanced along with the hollow-stem augers or by 10-foot continuous core-barrel sampler advanced along with the outer core barrel. Samples will be selected based on the Photo Ionization Detector (PID) field screening method. During soil boring advancement, representative portions of the soil from each sample interval will be retained for further analysis. One portion will be placed in a cooler on ice, for possible submission to the

laboratory for analysis. The other portion will be allowed to volatilize for approximately one hour prior to head space analysis for organic vapors using a PID. The headspace of the samples will be analyzed with the PID, the values recorded, and the two samples with the highest levels of VOCs from the boring will be submitted for laboratory analysis.

Samples submitted for analysis will be placed into laboratory-supplied containers (4-ounce, unpreserved jars with Teflon-lined lids), placed on ice maintaining chain of custody protocol. Samples will be analyzed for BTEX/MTBE/Naphthalene using EPA Method 8260B.

MEME Events

Three Notch recommends that monthly 8-hour duration MEME events be conducted at the site in order to reduce dissolved hydrocarbon concentrations in the MW-3 target area. Each 8-hour MEME event will be conducted using a mobile system operated by Three Notch or a third-party vendor. The primary objective will be vapor recovery and PCW removal, utilizing total fluids extraction from the wells. The technical specifications for the MEME system are presented in Appendix F.

Natural Attenuation

Groundwater samples will be collected quarterly from all site monitoring wells. The groundwater samples will be collected from the monitoring wells using new clean plastic bailers and transferred to 40 milliliter (mL) glass volatile organic analysis (VOA) vials preserved with hydrochloric acid (HCl) for BTEX/MTBE/Naphthalene analysis using EPA Method 8260B. During each groundwater sampling event, all monitoring wells will also be monitored for natural attenuation parameters (DO, pH, and Redox).

Once the COC concentrations are reduced to below the SSTLs, corrective action activities will be discontinued, and re-bound monitoring will be initiated. Should the COC concentrations remain above the SSTLs after a two-year period, CDG will re-evaluate the corrective plan. Three Notch will recommend the site for No Further Action (NFA) status once remediation goals are met.

PROPOSED REPORTING REQUIREMENTS

Three Notch will submit reports in accordance with ADEM requirements. These reports will include the following:

Reporting of CAP Implementation/Well Installation

This report will detail the installation of the two recovery wells. In addition, the Solid Waste Profile will be obtained under this cost proposal, and a copy of the Solid Waste Profile will be included in this report.

Reporting of Natural Attenuation with MEME Events Effectiveness

Three Notch proposes to submit quarterly NAMR reports, which will summarize field activities and the progress of site groundwater constituent concentrations towards achieving approved corrective action levels. The following data will be included in each report: field activities performed, groundwater elevations, groundwater analytical results as compared to target levels, potentiometric surface maps, COC contour maps, and MEME data results. The reports will also include remediation effectiveness and recommendations concerning additional measures deemed necessary.

Request for Closure Evaluation of Corrective Action

This report will include data that demonstrates that remediation goals have been achieved and will request a status of NFA for the site. Methods for abandonment of monitoring and recovery wells will be described.

Well Abandonment

This report will describe in detail the closure of the site and removal of all monitoring and recovery wells.

SCHEDULE OF IMPLEMENTATION

It is anticipated that the proposed corrective action plan will begin with the first MEME and groundwater monitoring event following the approval of the CAP. The following schedule indicates the timetable for major project events to be completed as part of this corrective action plan:

Time Following CAP Approval (months)	Project Event	Project Event Length
1	Well Installation	1 Week
0 – 24	Quarterly groundwater monitoring and monthly 8-hour MEME events, evaluation of performance, and recommendations for further corrective action if required	2 Years
25	Well abandonment; completion and submittal of final report if allowable by ADEM	2 Months

PROPOSED SAMPLING AND MONITORING ACTIVITIES

Following the approval of the CAP, monthly 8-hour duration MEME events will be conducted at the site in order to reduce dissolved hydrocarbon concentrations in the source areas. During the events, groundwater and soil vapor will be extracted from designated recovery wells. The MEME events will be conducted using a mobile liquid ring Multi-Phase Extraction (MPE) system operated by Three Notch, or equivalent. The MEME system has been approved by ADEM for use at numerous locations in Alabama for free product recovery, emergency response, and pilot testing activities. The unit operates with continuously monitored off-gas treatment (thermal destruction).

Prior to the MEME event, static water levels in selected wells will be recorded. Applied vacuum at the extraction wells and casing vacuums in the observation wells will be recorded periodically during the event. Water level and vacuum measurements, to determine the radius of influence, will be obtained periodically from observation wells. Measurements of flow and hydrocarbon concentrations will also be obtained periodically. Field measurements will be obtained using a calibrated FID instrument. Hydrocarbon removal rates will be calculated and plotted.

Groundwater samples will be collected from monitoring and recovery wells on a quarterly basis. All site wells will be gauged and sampled during each quarterly groundwater monitoring event.

The groundwater samples will be collected from the monitoring and recovery wells using new clean plastic bailers. Samples will be transferred to 40 mL glass VOA vials preserved with HCl for BTEX, MTBE, and naphthalene analysis in accordance with EPA Method 8260B. During each groundwater sampling event, all sampled wells will also be sampled for natural attenuation parameters (DO, pH, and ORP). The natural attenuation parameters will provide information concerning the recovery of the shallow aquifer down gradient of the release area.

The results of the proposed activities will be submitted to ADEM on a quarterly basis in the form of a RNA/MEME Report. The report will include conclusions regarding the effectiveness of the recovery activities performed and recommendations for future site activities.

CONCLUSIONS AND RECOMMENDATIONS

Upon receiving ADEM's approval of the recommended approach, Three Notch will submit cost proposals for Well Installation and RNA with MEME activities.

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APPENDICES

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TABLES

APPENDIX A

Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**MW-1**	
INSTALLATION DATE:	05/11/23	WELL DEPTH (FT BTOC):	27.5	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	730.21	WELL TYPE: II DIAMETER (IN): 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
05/15/23	18.41	711.80	-	4.0
02/05/24	12.33	717.88	-	7.0
06/12/24	18.13	712.08	-	4.5
09/25/24	20.18	710.03	-	3.5
12/05/24	20.25	709.96	-	3.5
03/18/25	17.98	712.23	-	4.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/15/23	0.83	6.53	-1.9
02/05/24	0.81	6.43	-51.7
06/12/24	10.01	7.61	-125.6
09/25/24	0.46	5.88	6.5
12/05/24	2.95	5.80	236.1
03/18/25	0.42	7.02	-157.6

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
05/15/23	<0.100	0.282	2.36	3.37	23.5	29.512	1.17
02/05/24	0.019	0.113	<0.010	0.481	1.28	1.874	0.146
06/12/24	0.020	0.043	<0.002	0.186	0.095	0.324	0.059
09/25/24	0.019	0.017	<0.002	0.065	0.019	0.101	0.025
12/05/24	0.035	0.019	<0.002	0.031	0.003	0.053	0.008
03/18/25	0.020	0.067	<0.040	0.079	<0.020	0.146	<0.100
GRP SSTLs:	**2.41**	**0.603**	**121**	**84.5**	**175**	**-**	**2.41**
Inhalation SSTLs:	**48000**	**50.2**	**526**	**169**	**175**	**-**	**31**

Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**MW-2**	
INSTALLATION DATE:	05/11/23	WELL DEPTH (FT BTOC):	19.5	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	729.42	WELL TYPE: II DIAMETER (IN): 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
05/15/23	16.81	712.61	-	1.0
02/05/24	11.77	717.65	-	3.5
06/12/24	15.80	713.62	-	2.0
09/25/24	17.83	711.59	-	0.5
12/05/24	18.23	711.19	-	1.5
03/18/25	15.54	713.88	-	1.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/15/23	0.71	6.61	5.4
02/05/24	0.75	6.64	-56.9
06/12/24	7.17	7.26	-123.0
09/25/24	0.53	6.35	-3.3
12/05/24	2.54	6.50	201.7
03/18/25	0.66	6.98	-165.3

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
05/15/23	0.027	<0.001	<0.002	<0.001	0.056	0.056	<0.005
02/05/24	0.014	0.017	<0.002	0.071	0.138	0.226	0.034
06/12/24	0.017	<0.001	<0.002	0.001	<0.001	0.001	0.005
09/25/24	0.015	0.008	<0.002	0.004	0.012	0.024	<0.005
12/05/24	0.013	0.001	<0.002	<0.001	<0.001	0.001	<0.005
03/18/25	0.010	0.006	<0.002	<0.001	<0.001	0.006	<0.005
GRP SSTLs:	**2.41**	**0.603**	**121**	**84.5**	**175**	**-**	**2.41**
Inhalation SSTLs:	**48000**	**50.2**	**526**	**169**	**175**	**-**	**31**

Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**MW-3**	
INSTALLATION DATE:	05/11/23	WELL DEPTH (FT BTOC):	24.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	730.83	WELL TYPE: II DIAMETER (IN): 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
05/15/23	17.32	713.51	-	3.0
02/05/24	13.78	717.05	-	5.0
06/12/24	14.81	716.02	-	4.5
09/25/24	17.69	713.14	-	3.0
12/05/24	18.04	712.96	0.23	-
03/18/25	15.13	715.70	-	4.0

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/15/23	1.84	6.55	113.7
02/05/24	0.72	6.55	-20.1
06/12/24	2.39	7.59	-105.6
09/25/24	0.49	6.21	-11.7
12/05/24	FREE PRODUCT (0.23 FT)		
03/18/25	0.37	7.10	-171.2

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
05/15/23	<0.200	**3.90**	29.1	2.99	20.1	56.09	**<1.00**
02/05/24	<0.100	**3.91**	13.9	15.8	71.6	105.21	**4.45**
06/12/24	<0.100	**3.31**	60.3	5.70	33.4	102.71	0.745
09/25/24	<0.100	**2.38**	21.5	6.65	34.8	65.33	1.35
12/05/24	NOT SAMPLED - FREE PRODUCT (0.23 FT)						
03/18/25	<1.00	**2.95**	46.5	19.2	101	169.65	**<5.00**
GRP SSTLs:	**2.4**	**0.599**	**120**	**83.9**	**175**	**-**	**2.4**
Inhalation SSTLs:	**48000**	**50.2**	**526**	**169**	**175**	**-**	**31**

Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**MW-4**	
INSTALLATION DATE:	05/11/23	WELL DEPTH (FT BTOC):	29.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	731.30	WELL TYPE: II DIAMETER (IN): 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
05/15/23	19.04	712.26	-	5.0
02/05/24	14.78	716.52	-	7.0
06/12/24	17.61	713.69	-	5.5
09/25/24	20.25	711.05	-	4.0
12/05/24	20.28	711.02	-	4.0
03/18/25	17.85	713.45	-	5.0

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/15/23	1.99	6.20	128.1
02/05/24	0.69	6.50	-31.0
06/12/24	2.10	7.23	-52.5
09/25/24	0.98	5.69	42.3
12/05/24	4.55	5.85	240.8
03/18/25	1.59	6.93	-5.6

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
05/15/23	0.032	0.091	0.006	0.002	0.023	0.122	<0.005
02/05/24	0.032	0.01	<0.002	0.002	<0.001	0.008	0.005
06/12/24	0.013	0.014	<0.002	0.014	0.022	0.050	0.014
09/25/24	0.008	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
12/05/24	0.013	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
03/18/25	0.016	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**2.19**	**0.547**	**109**	**76.6**	**175**	**-**	**2.19**
Inhalation SSTLs:	**48000**	**50.2**	**526**	**169**	**175**	**-**	**31**

Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**MW-5**	
INSTALLATION DATE:	01/22/24	WELL DEPTH (FT BTOC):	30.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	729.88	WELL TYPE: II DIAMETER (IN): 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
02/05/24	11.18	718.70	-	9.0
06/12/24	14.74	715.14	-	7.5
09/25/24	16.72	713.16	-	6.0
12/05/24	17.57	712.31	-	6.0
03/18/25	14.57	715.31	-	7.0

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
02/05/24	1.59	6.31	21.8
06/12/24	6.07	7.41	-52.2
09/25/24	110.00	5.16	230.1
12/05/24	5.96	5.10	277.2
03/18/25	1.97	6.95	-9.5

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
02/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/12/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/25/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
12/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
03/18/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**1.41**	**0.352**	**70.4**	**49.3**	**175**	**-**	**1.41**
Inhalation SSTLs:	**48000**	**50.2**	**526**	**169**	**175**	**-**	**31**

Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**MW-6**	
INSTALLATION DATE:	01/22/24	WELL DEPTH (FT BTOC):	24.5	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	729.64	WELL TYPE: II DIAMETER (IN): 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
02/05/24	10.86	718.78	-	6.5
06/12/24	15.49	714.15	-	4.5
09/25/24	17.81	711.83	-	3.0
12/05/24	17.90	711.74	-	3.0
03/18/25	15.06	714.58	-	4.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
02/05/24	1.73	6.65	40.6
06/12/24	4.95	7.95	-45.8
09/25/24	0.68	6.04	216.9
12/05/24	3.01	6.20	217.4
03/18/25	2.31	7.05	-11.3

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
02/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/12/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/25/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
12/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
03/18/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**2.08**	**0.521**	**104**	**73**	**175**	**-**	**2.08**
Inhalation SSTLs:	**48000**	**50.2**	**526**	**169**	**175**	**-**	**31**

Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**MW-7**	
INSTALLATION DATE:	01/22/24	WELL DEPTH (FT BTOC):	25.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	730.49	WELL TYPE: II DIAMETER (IN): 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
02/05/24	5.79	724.70	-	9.0
06/12/24	5.83	724.66	-	9.0
09/25/24	8.93	721.56	-	7.5
12/05/24	9.76	720.73	-	7.5
03/18/25	6.53	723.96	-	8.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
02/05/24	1.88	7.45	72.6
06/12/24	3.26	7.65	-45.0
09/25/24	1.33	5.08	249.1
12/05/24	4.71	5.92	243.8
03/18/25	1.76	7.11	3.5

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
02/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/12/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/25/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
12/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
03/18/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**0.436**	**0.109**	**21.8**	**15.3**	**175**	**-**	**0.436**
Inhalation SSTLs:	**48000**	**50.2**	**526**	**169**	**175**	**-**	**31**

Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**MW-8**	
INSTALLATION DATE:	01/22/24	WELL DEPTH (FT BTOC):	29.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	731.14	WELL TYPE: II DIAMETER (IN): 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
02/05/24	13.74	717.40	-	7.0
06/12/24	16.10	715.04	-	6.0
09/25/24	18.75	712.39	-	4.5
12/05/24	19.92	711.22	-	4.5
03/18/25	16.54	714.60	-	5.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
02/05/24	0.76	5.73	77.3
06/12/24	6.56	7.18	-32.6
09/25/24	2.11	6.08	45.2
12/05/24	5.49	6.51	202.6
03/18/25	3.12	7.03	4.3

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
02/05/24	<0.0001	0.06	<0.002	0.003	0.014	0.077	<0.005
06/12/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/25/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
12/05/24	<0.001	0.014	<0.002	<0.001	0.003	0.017	<0.005
03/18/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**0.838**	**0.209**	**41.9**	**29.3**	**175**	**-**	**0.838**
Inhalation SSTLs:	**48000**	**50.2**	**526**	**169**	**175**	**-**	**31**

Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**VW-1**		
INSTALLATION DATE:	01/23/24	WELL DEPTH (FT BTOC):	30.5	SCREEN LENGTH (FT):	2.5	CASING ELEV (FT ABOVE MSL):	730.19	WELL TYPE: DIAMETER (IN):	III 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
02/05/24	11.21	718.98	-	9.5
06/12/24	16.79	713.40	-	6.5
09/25/24	18.62	711.57	-	5.5
12/05/24	18.72	711.47	-	5.5
03/18/25	16.09	714.10	-	6.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
02/05/24	1.25	7.11	-55.3
06/12/24	10.89	7.50	-71.2
09/25/24	2.46	6.78	205.6
12/05/24	6.17	5.11	274.1
03/18/25	3.61	6.98	-24.4

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
02/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/12/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/25/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
12/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
03/18/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**2.01**	**0.502**	**100**	**70.3**	**175**	**-**	**2.01**
Inhalation SSTLs:	**48000**	**50.2**	**526**	**169**	**175**	**-**	**31**

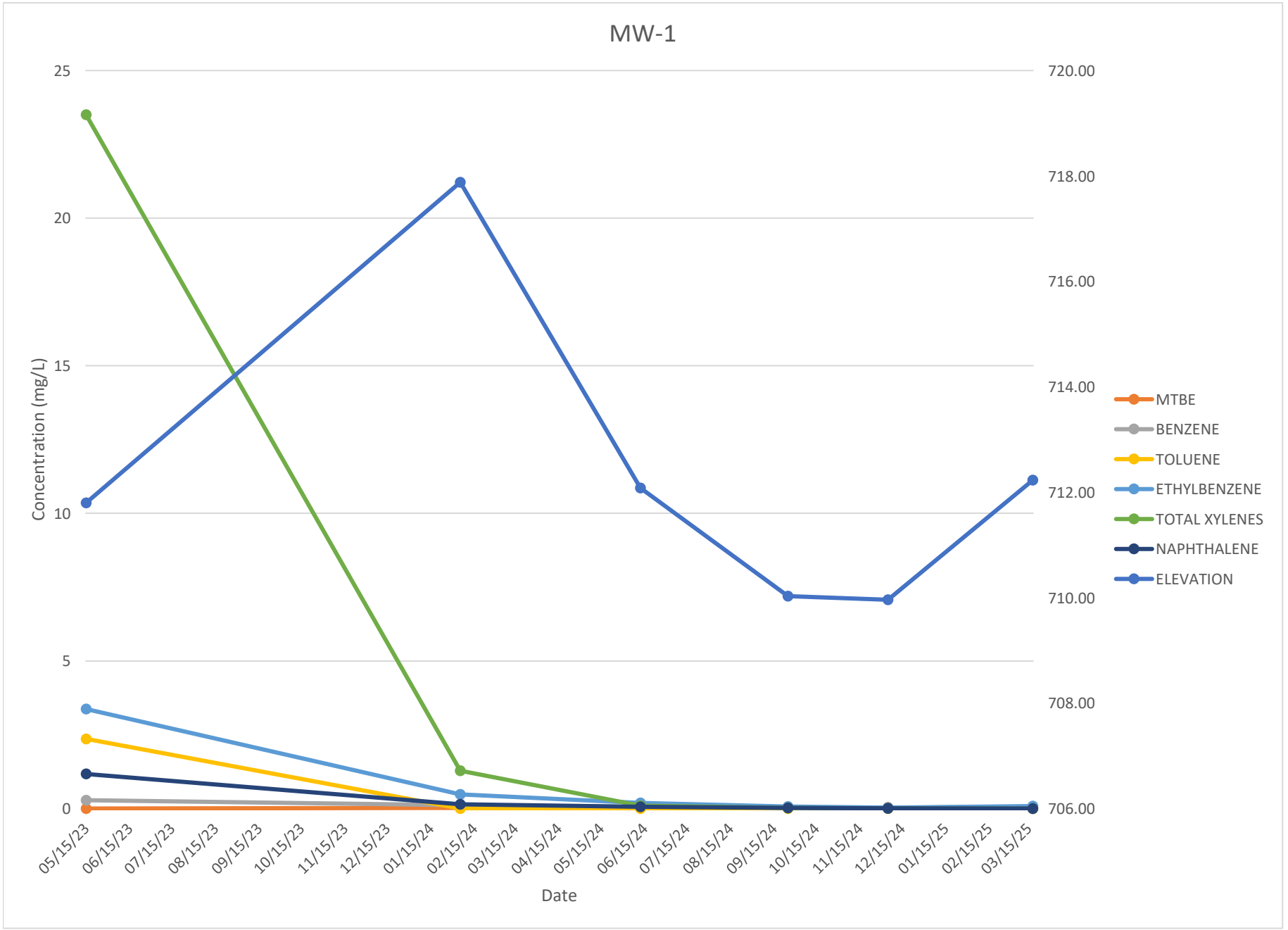
Monitoring Point Data Summary Table

SITE NAME:	Remlap Super Saver			UST NUMBER:	23-01-03	WELL ID:	**Carbon Effluent**	
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	-	WELL TYPE: DIAMETER (IN):	- -

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
05/15/23	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
01/25/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
02/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/12/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/25/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
12/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
03/18/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005


MW-1
Concentration (mg/L)
25
20
15
10
5
0
720.00
718.00
716.00
714.00
712.00
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708.00
706.00
05/15/23
06/15/23
07/15/23
08/15/23
09/15/23
10/15/23
11/15/23
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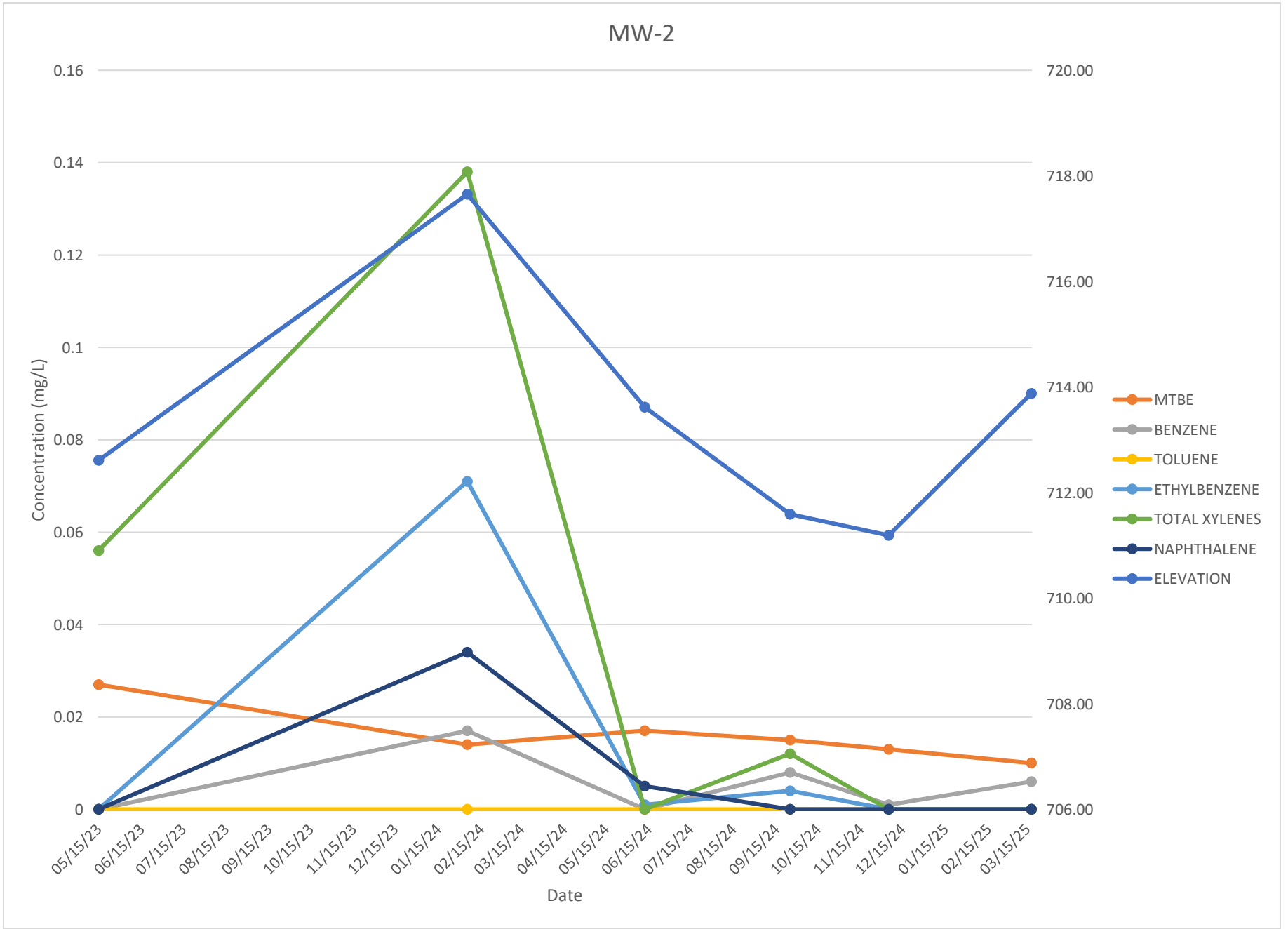
10/15/24
11/15/24
12/15/24
01/15/25
02/15/25
03/15/25
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION


MW-2
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0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Concentration (mg/L)
720.00
718.00
716.00
714.00
712.00
710.00
708.00
706.00
05/15/23
06/15/23
07/15/23
08/15/23
09/15/23
10/15/23
11/15/23
12/15/23
01/15/24
02/15/24
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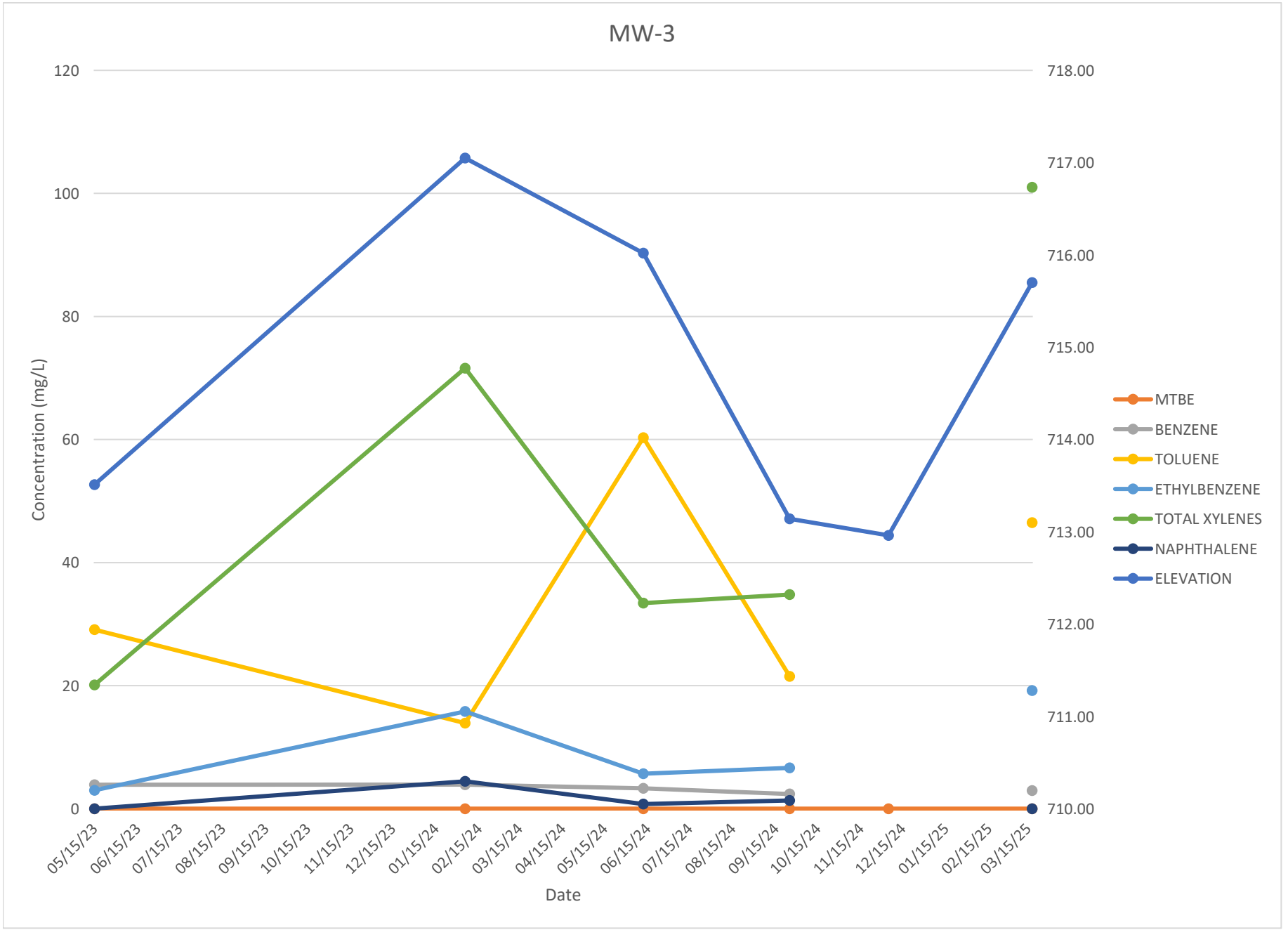
10/15/24
11/15/24
12/15/24
01/15/25
02/15/25
03/15/25
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION


MW-3
120
100
80
60
40
20
0
Concentration (mg/L)
718.00
717.00
716.00
715.00
714.00
713.00
712.00
711.00
710.00
05/15/23
06/15/23
07/15/23
08/15/23
09/15/23
10/15/23
11/15/23
12/15/23
01/15/24
02/15/24
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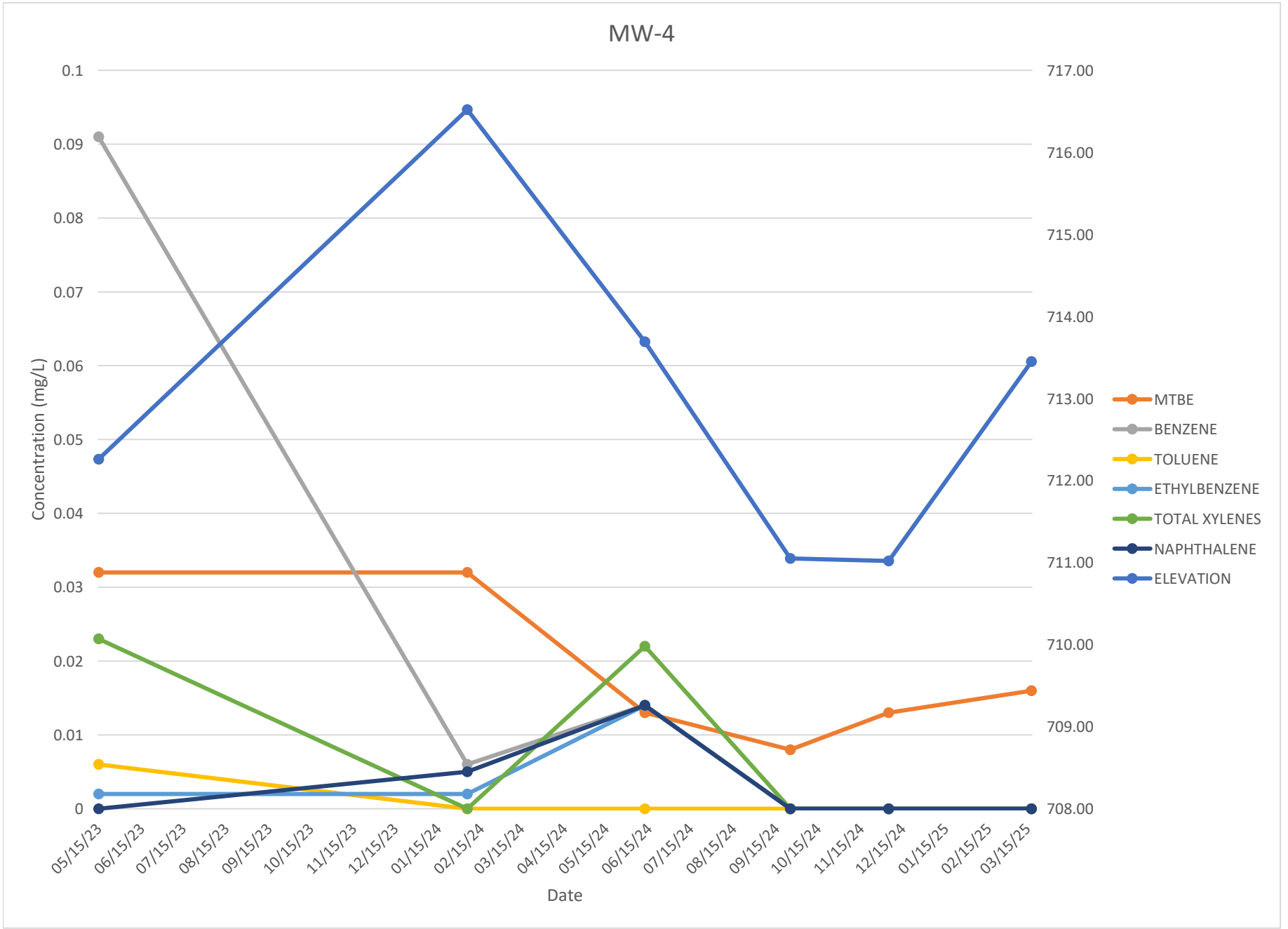
10/15/24
11/15/24
12/15/24
01/15/25
02/15/25
03/15/25
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION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0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Concentration (mg/L)
717.00
716.00
715.00
714.00
713.00
712.00
711.00
710.00
709.00
708.00
05/15/23
06/15/23
07/15/23
08/15/23
09/15/23
10/15/23
11/15/23
12/15/23
01/15/24
02/15/24
03/15/24
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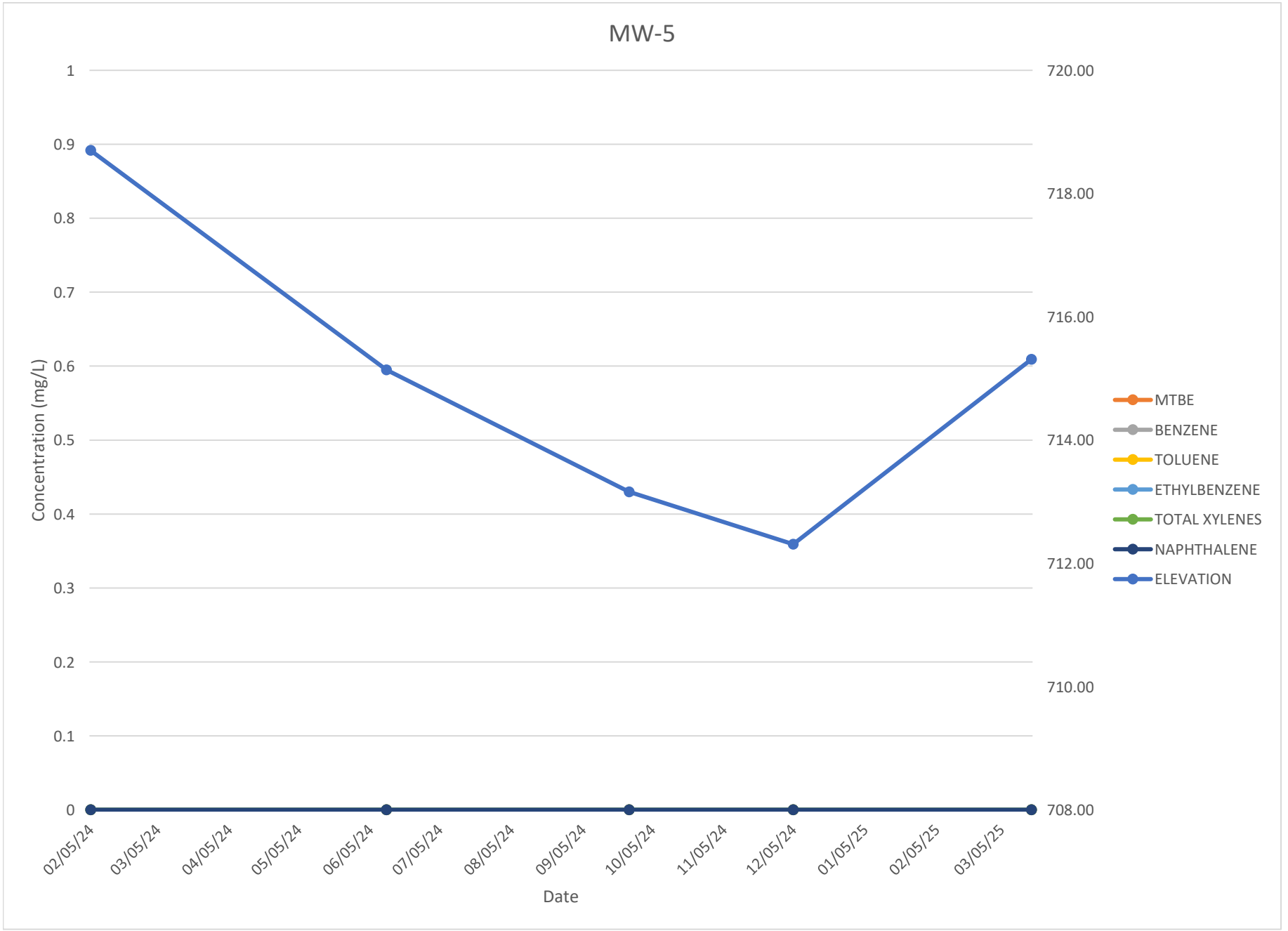
10/15/24
11/15/24
12/15/24
01/15/25
02/15/25
03/15/25
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION


MW-5
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0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentration (mg/L)
720.00
718.00
716.00
714.00
712.00
710.00
708.00
02/05/24
03/05/24
04/05/24
05/05/24
06/05/24
07/05/24
08/05/24
09/05/24
10/05/24
11/05/24
12/05/24
01/05/25
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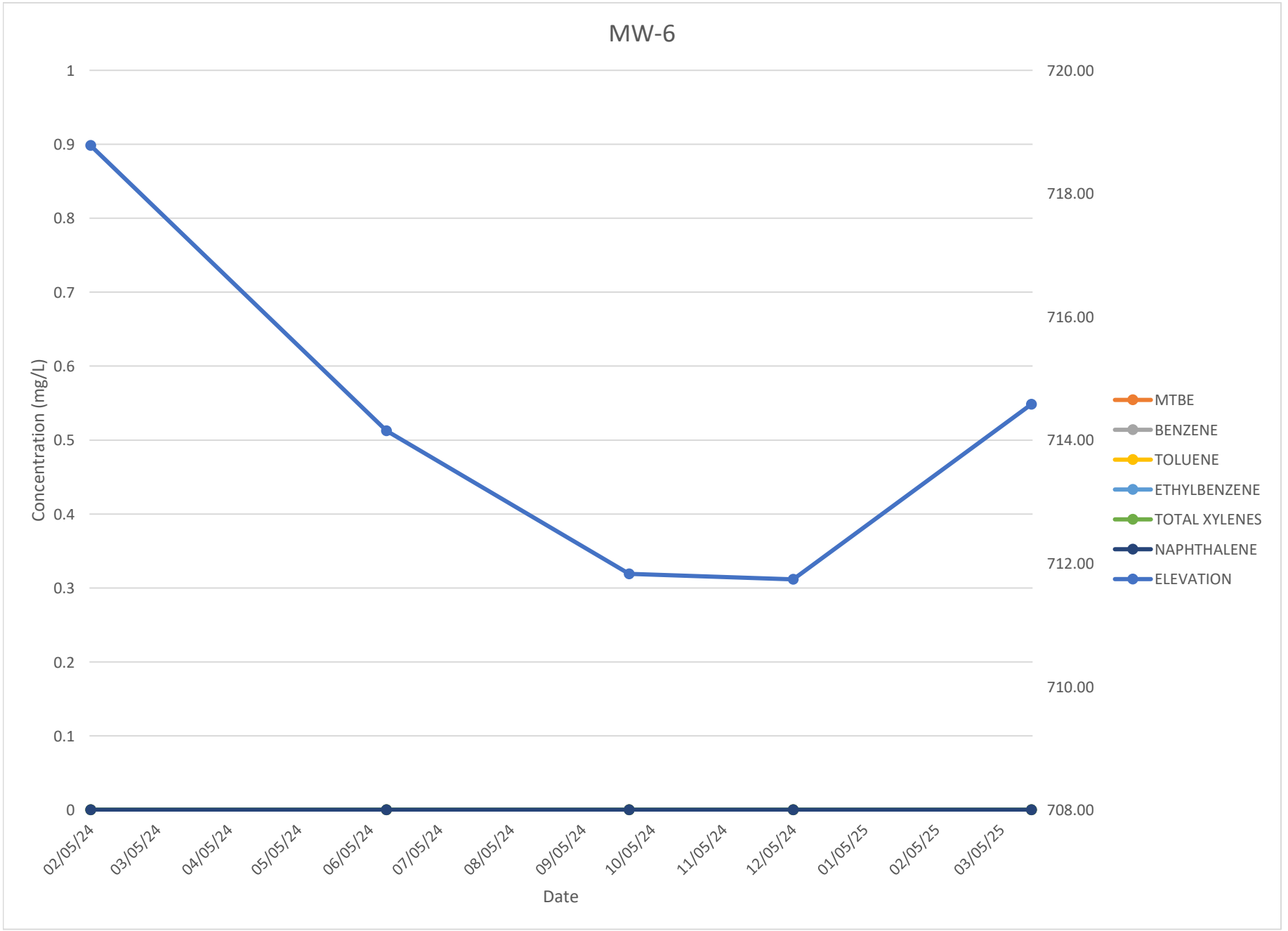
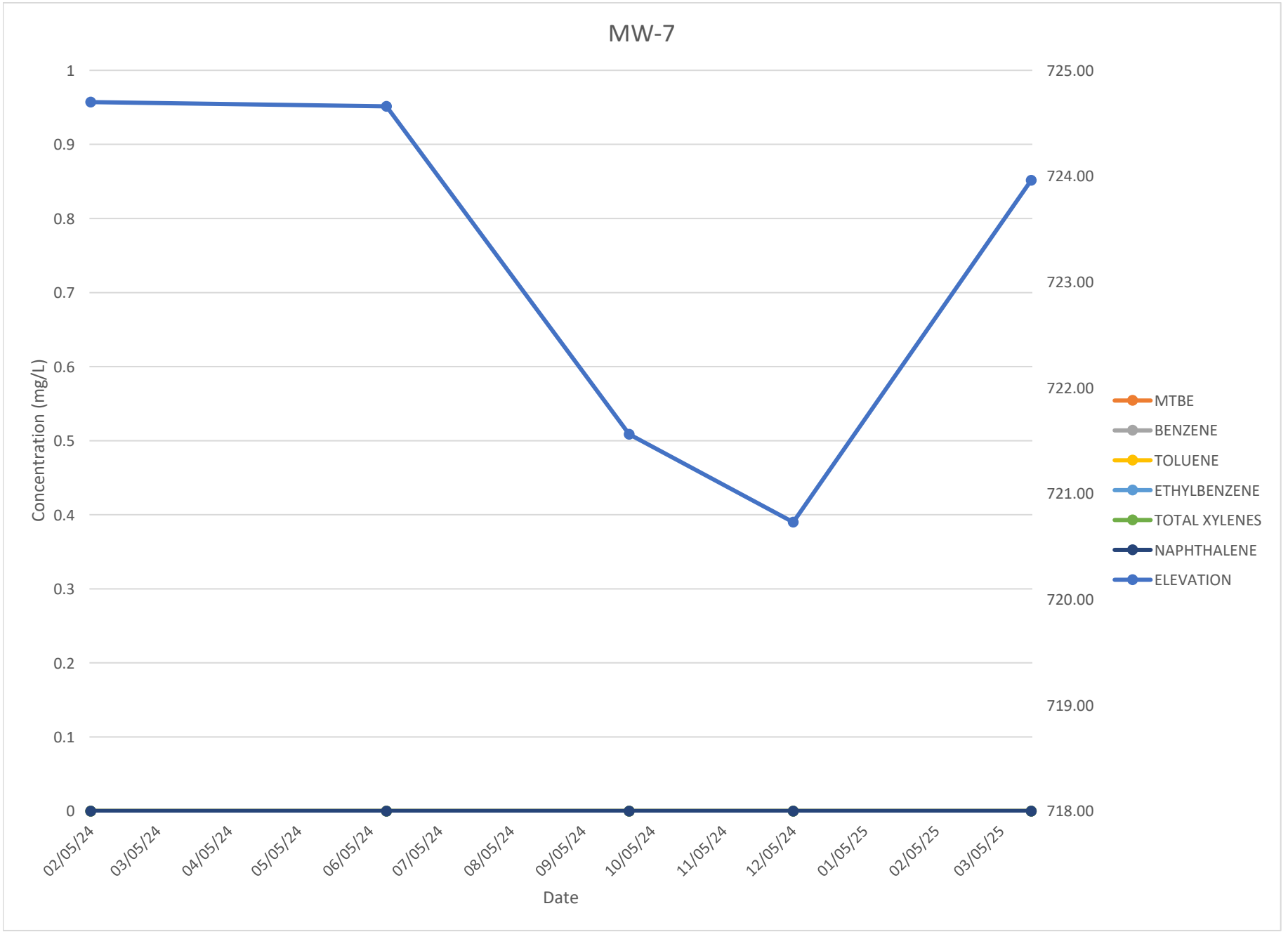
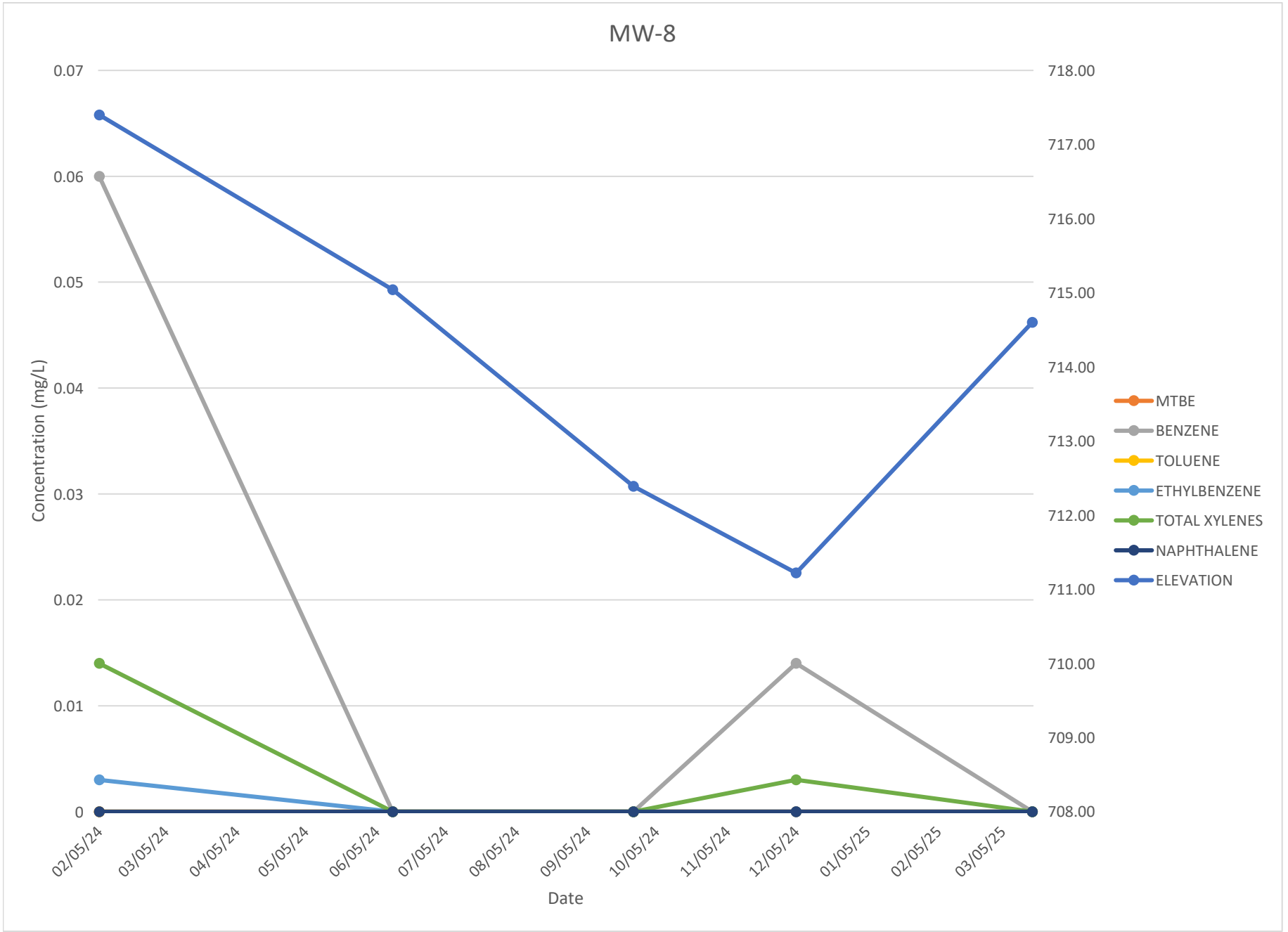
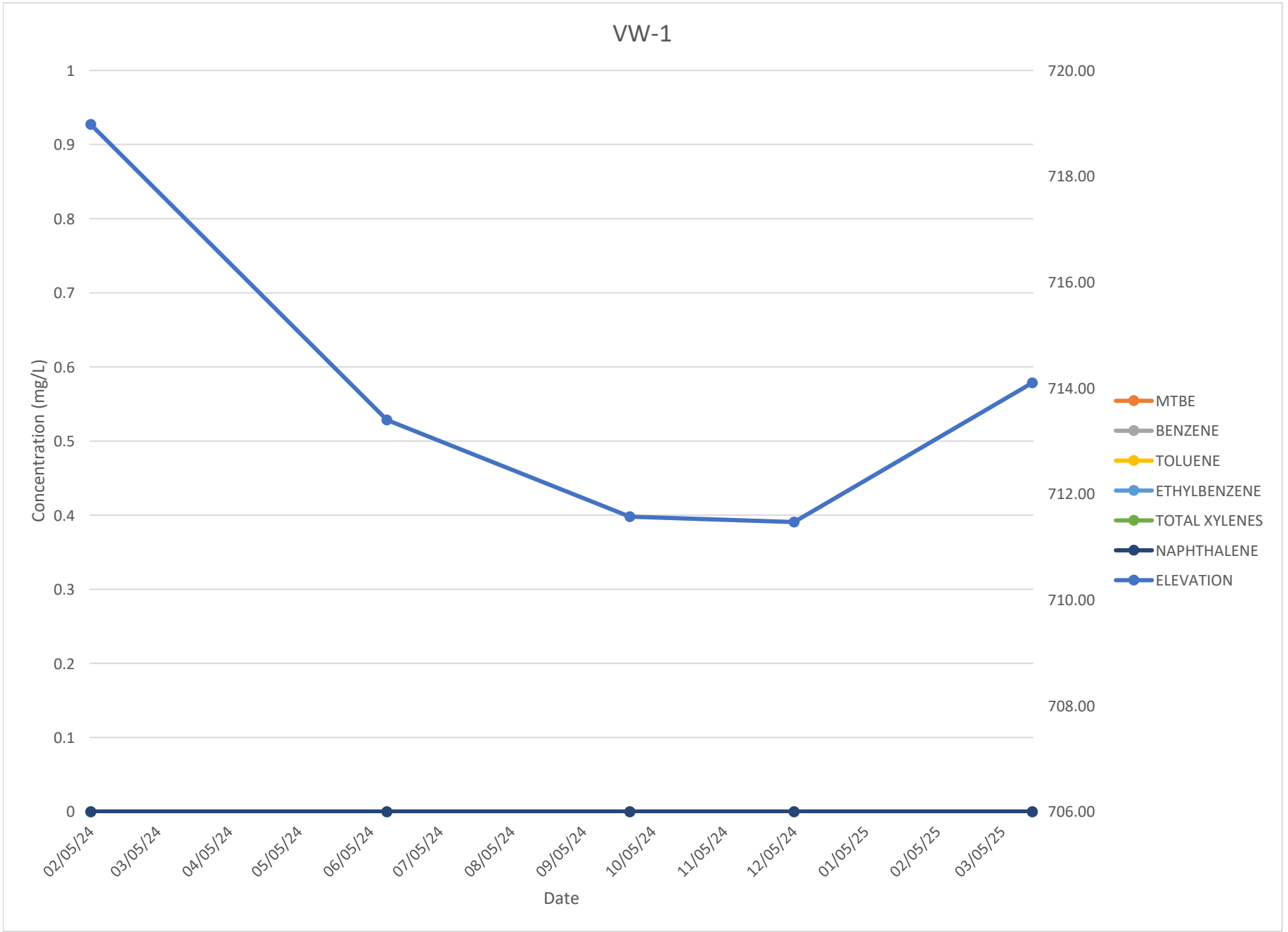
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION


MW-6
Concentration (mg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
720.00
718.00
716.00
714.00
712.00
710.00
708.00
02/05/24
03/05/24
04/05/24
05/05/24
06/05/24
07/05/24
08/05/24
09/05/24
10/05/24
11/05/24
12/05/24
01/05/25
02/05/25
03/05/25
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION


MW-7
Concentration (mg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
725.00
724.00
723.00
722.00
721.00
720.00
719.00
718.00
02/05/24
03/05/24
04/05/24
05/05/24
06/05/24
07/05/24
08/05/24
09/05/24
10/05/24
11/05/24
12/05/24
01/05/25
02/05/25
03/05/25
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION


MW-8
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Concentration (mg/L)
718.00
717.00
716.00
715.00
714.00
713.00
712.00
711.00
710.00
709.00
708.00
02/05/24
03/05/24
04/05/24
05/05/24
06/05/24
07/05/24
08/05/24
09/05/24
10/05/24
11/05/24
12/05/24
01/05/25
02/05/25
03/05/25
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION


VW-1
Concentration (mg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
720.00
718.00
716.00
714.00
712.00
710.00
708.00
706.00
02/05/24
03/05/24
04/05/24
05/05/24
06/05/24
07/05/24
08/05/24
09/05/24
10/05/24
11/05/24
12/05/24
01/05/25
02/05/25
03/05/25
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION

Monitoring Point Data Summary Table

SITE NAME:				UST NUMBER:		WELL ID:			
INSTALLATION DATE:		WELL DEPTH (FT BTOC):		SCREEN LENGTH (FT):		CASING ELEV (FT ABOVE MSL):		WELL TYPE: DIAMETER (IN):	

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

SOIL ANALYTICAL SUMMARY (mg/Kg)

SAMPLE ID	SAMPLE DATE	DEPTH (FT)	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
1/0/00	01/00/00							BDL	
1/0/00	01/00/00							BDL	
		ISLs:	**0.00862**	**0.00845**	**3.6**	**3.61**	**62.4**	**-**	**0.579**

POTENTIOMETRIC ELEVATION SUMMARY

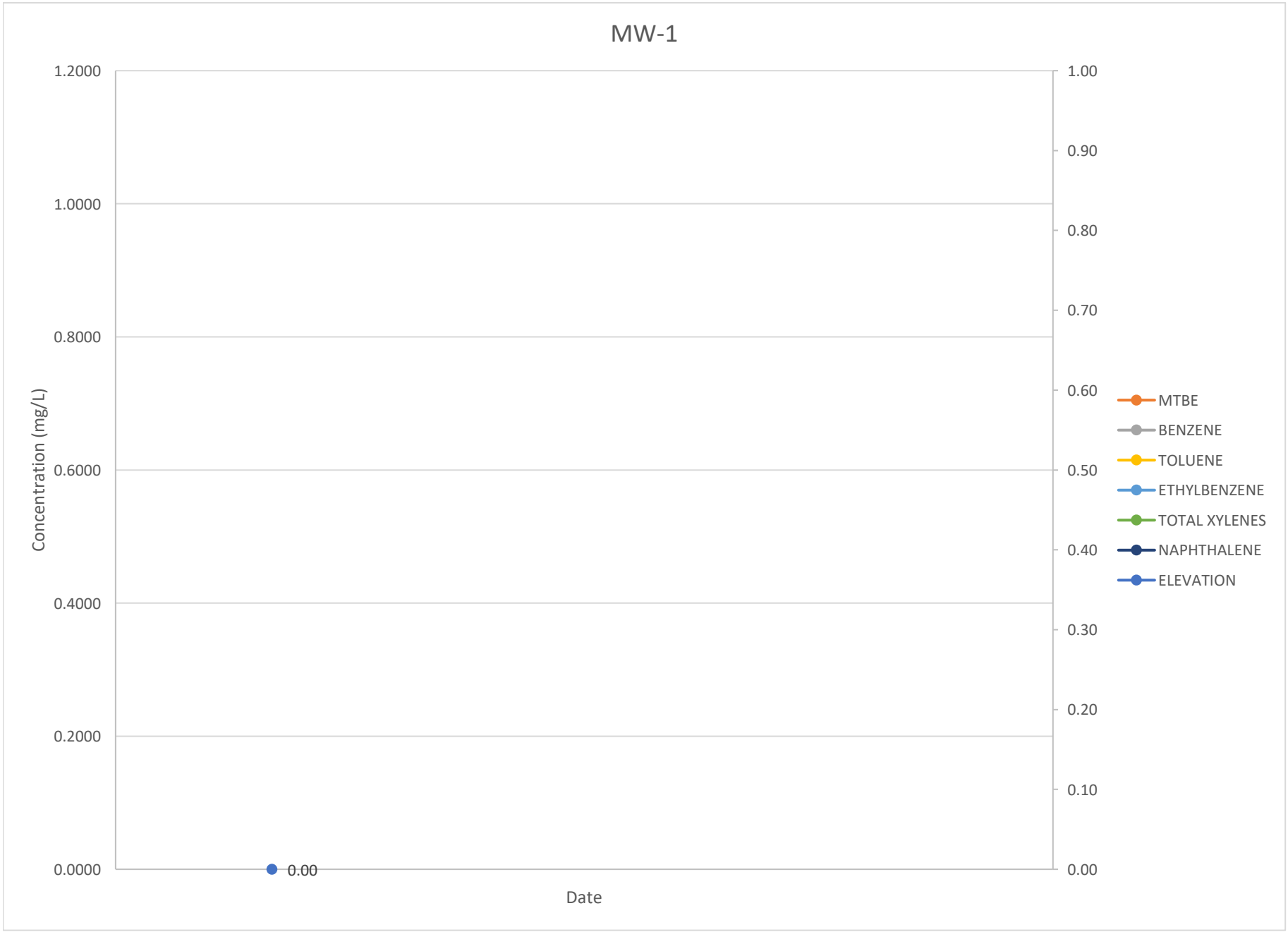
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
		0.00		

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
						BDL	
ISLs:	**0.02**	**0.005**	**1**	**0.7**	**10**	**-**	**0.02**


MW-1
1.2000
1.0000
0.8000
0.6000
0.4000
0.2000
0.0000
Concentration (mg/L)
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.00
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE
ELEVATION

Monitoring Point Data Summary Table

SITE NAME:				UST NUMBER:		WELL ID:			
INSTALLATION DATE:		WELL DEPTH (FT BTOC):		SCREEN LENGTH (FT):		CASING ELEV (FT ABOVE MSL):		WELL TYPE: DIAMETER (IN):	

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

SOIL ANALYTICAL SUMMARY (mg/Kg)

SAMPLE ID	SAMPLE DATE	DEPTH (FT)	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
1/0/00	01/00/00							BDL	
1/0/00	01/00/00							BDL	
		SSTLs:						-	

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
		0.00		

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)

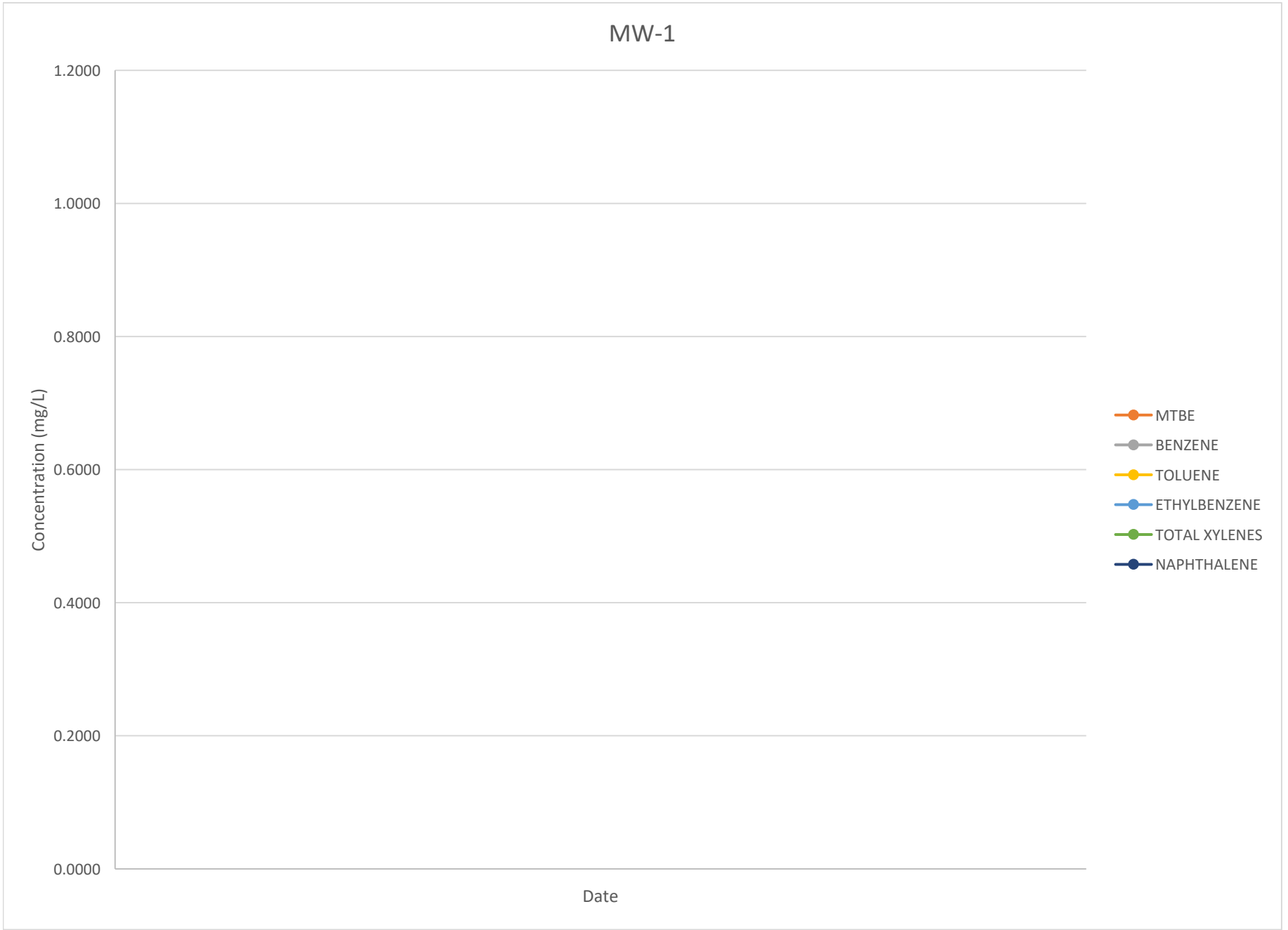
Monitoring Point Data Summary Table

SITE NAME:				UST NUMBER:		WELL ID:			
INSTALLATION DATE:		WELL DEPTH (FT BTOC):		SCREEN LENGTH (FT):		CASING ELEV (FT ABOVE MSL):		WELL TYPE: DIAMETER (IN):	

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
						BDL	
GRP SSTLs:						-	
Inhalation SSTLs:						-	
Stream SSTLs:						-	


MW-1
1.2000
1.0000
0.8000
0.6000
0.4000
0.2000
0.0000
Concentration (mg/L)
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE

Monitoring Point Data Summary Table

SITE NAME:				UST NUMBER:		WELL ID:			
INSTALLATION DATE:		WELL DEPTH (FT BTOC):		SCREEN LENGTH (FT):		CASING ELEV (FT ABOVE MSL):		WELL TYPE: DIAMETER (IN):	

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

SOIL ANALYTICAL SUMMARY (mg/Kg)

SAMPLE ID	SAMPLE DATE	DEPTH (FT)	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
0	1/0/00							BDL	
0	1/0/00							BDL	
		SSTLs:						-	

SAMPLE ID	ANTHRACENE	BENZO(a) ANTHRACENE	BENZO(a) PYRENE	BENZO(b) FLUORANTHENE	BENZO(g,h,i) PERYLENE	BENZO(k) FLUORANTHENE	CHRYSENE	FLUORANTHENE	FLUORENE	PHENANTHRENE	PYRENE
0											
0											
SSTLs:											

POTENTIOMETRIC ELEVATION SUMMARY

MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
		0.00		

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)

Monitoring Point Data Summary Table

SITE NAME:				UST NUMBER:		WELL ID:		
INSTALLATION DATE:		WELL DEPTH (FT BTOC):		SCREEN LENGTH (FT):		CASING ELEV (FT ABOVE MSL):	WELL TYPE: DIAMETER (IN):	

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
						BDL	
GRP SSTLs:						-	
Inhalation SSTLs:						-	
Stream SSTLs:						-	

Monitoring Point Data Summary Table

SITE NAME:		UST NUMBER:		WELL ID:			
INSTALLATION DATE:		WELL DEPTH (FT BTOC):		SCREEN LENGTH (FT):		CASING ELEV (FT ABOVE MSL):		WELL TYPE: DIAMETER (IN):	

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)

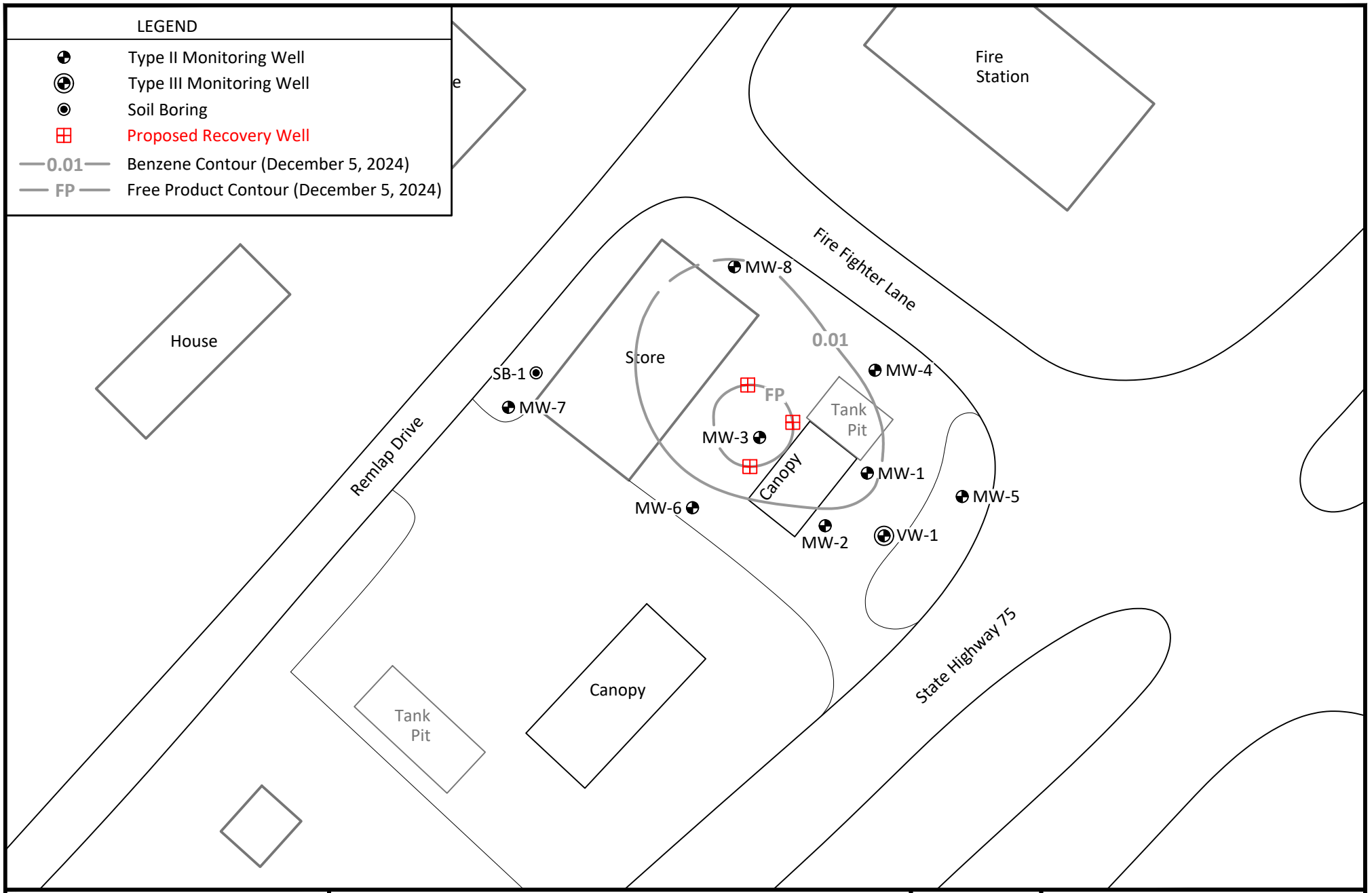
SAMPLE DATE	ANTHRACENE	BENZO(a) ANTHRACENE	BENZO(a) PYRENE	BENZO(b) FLUORANTHENE	BENZO(g,h,i) PERYLENE	BENZO(k) FLUORANTHENE	CHRYSENE	FLUORANTHENE	FLUORENE	PHENANTHRENE	PYRENE
GRP SSTLs:											
Inhalation SSTLs:											
Stream SSTLs:											


Chart Title
1.2000
1.0000
0.8000
0.6000
0.4000
0.2000
0.0000
Concentration (mg/L)
Date
MTBE
BENZENE
TOLUENE
ETHYLBENZENE
TOTAL XYLENES
NAPHTHALENE

THREE NOTCH GROUP

FIGURES

APPENDIX B

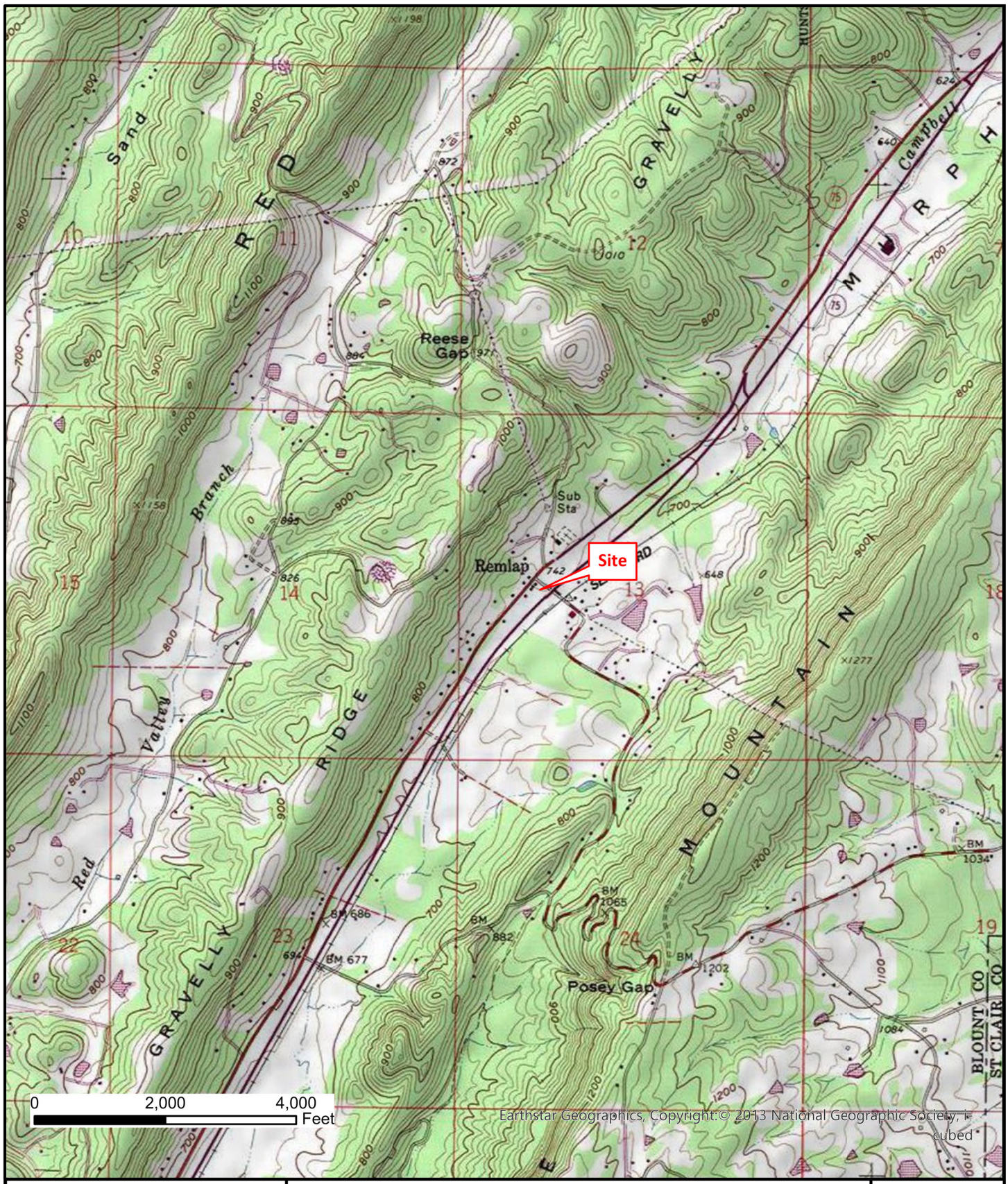


THREE NOTCH GROUP

Proposed Recovery Well Locations Map

Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama

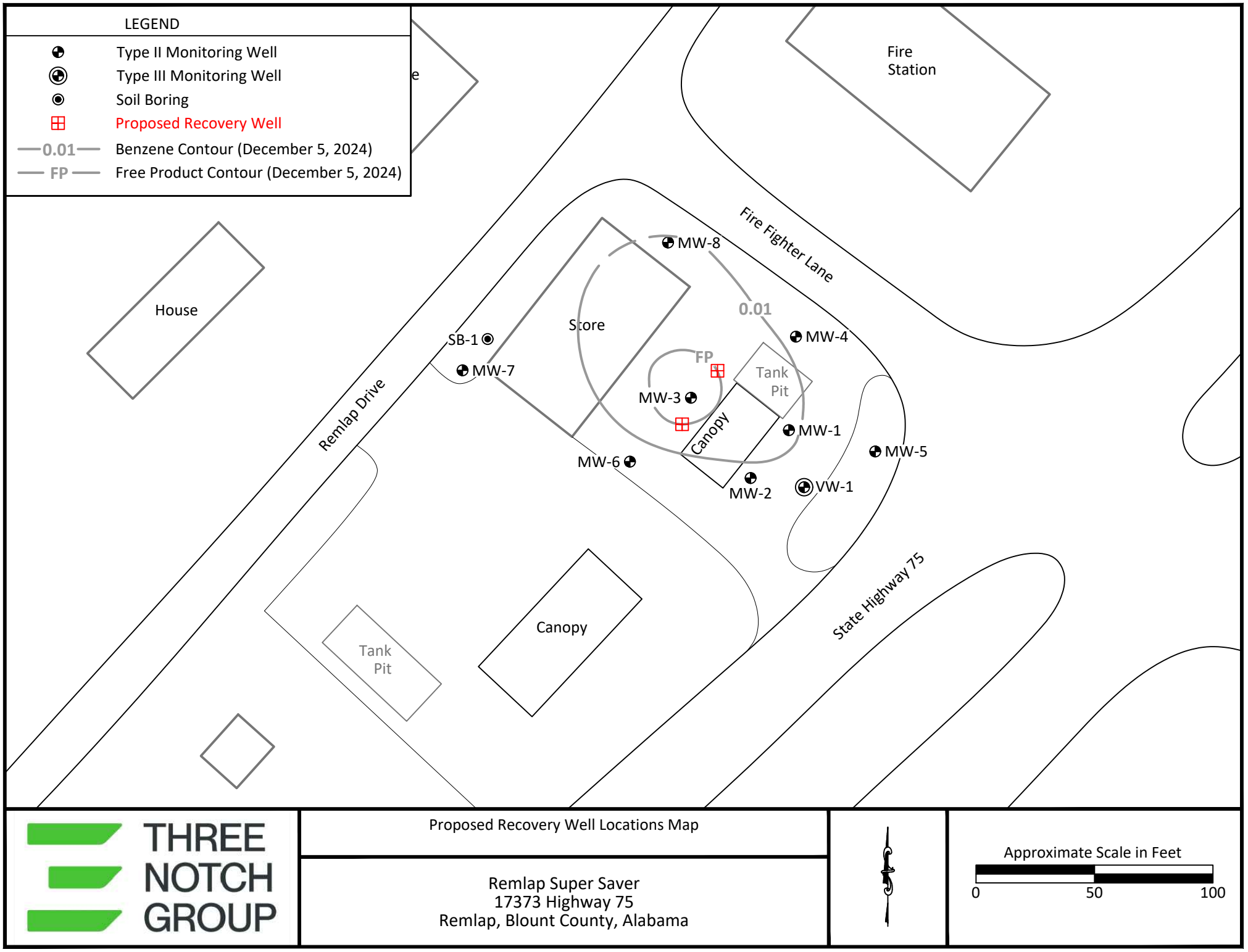
Approximate Scale in Feet
0 50 100

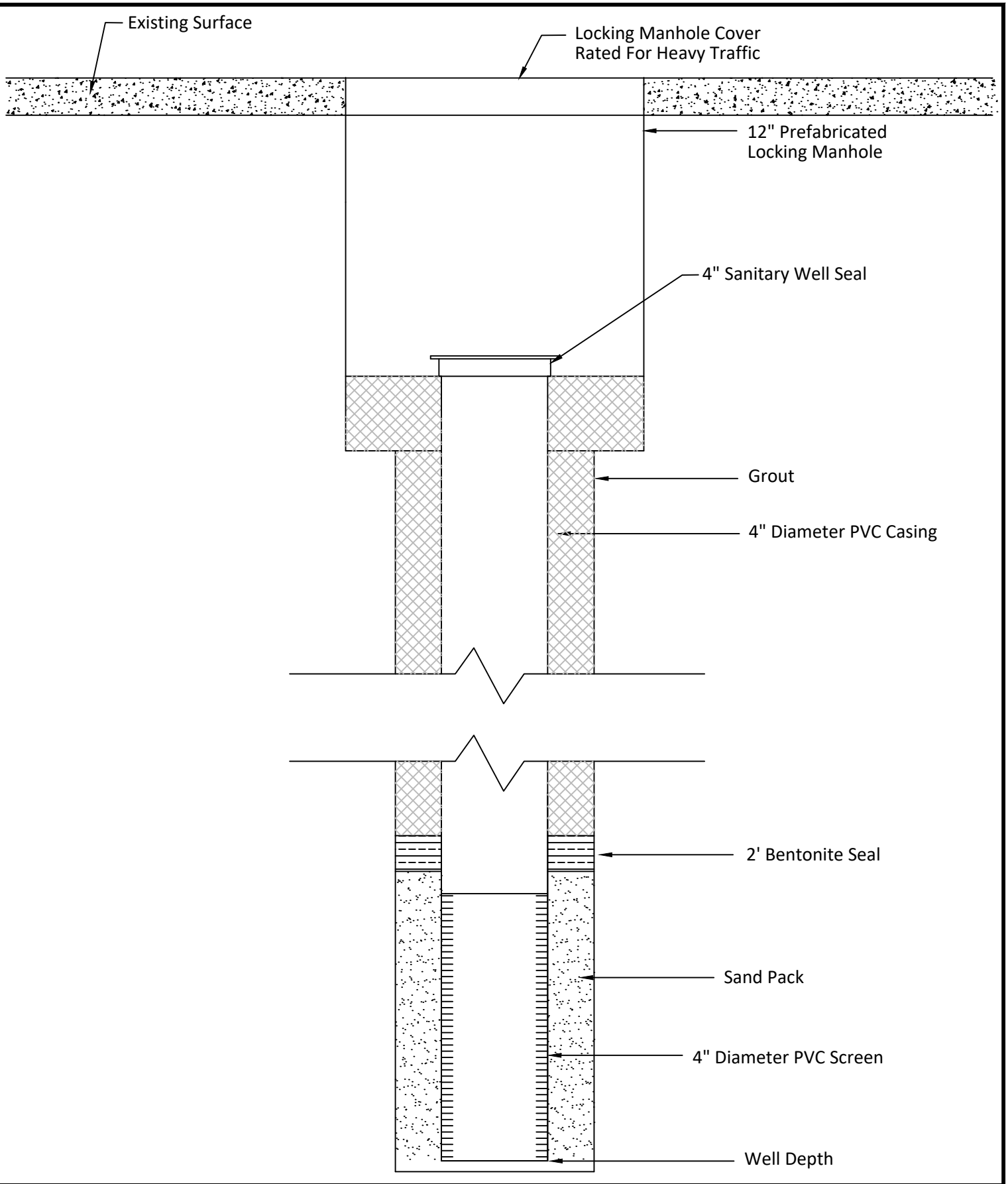


Site Location USGS Topographic Map

Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama

N


LEGEND
Type II Monitoring Well
Type III Monitoring Well
Soil Boring
Proposed Recovery Well
0.01 Benzene Contour (December 5, 2024)
FP Free Product Contour (December 5, 2024)
Fire Station
House
Fire Fighter Lane
Remlap Drive
Store
MW-8
0.01
SB-1
MW-4
MW-7
FP
Tank Pit
MW-3
Canopy
MW-1
MW-5
MW-6
MW-2
VW-1
State Highway 75
Canopy
Tank Pit
THREE NOTCH GROUP
Proposed Recovery Well Locations Map
Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama
Approximate Scale in Feet
0
50
100

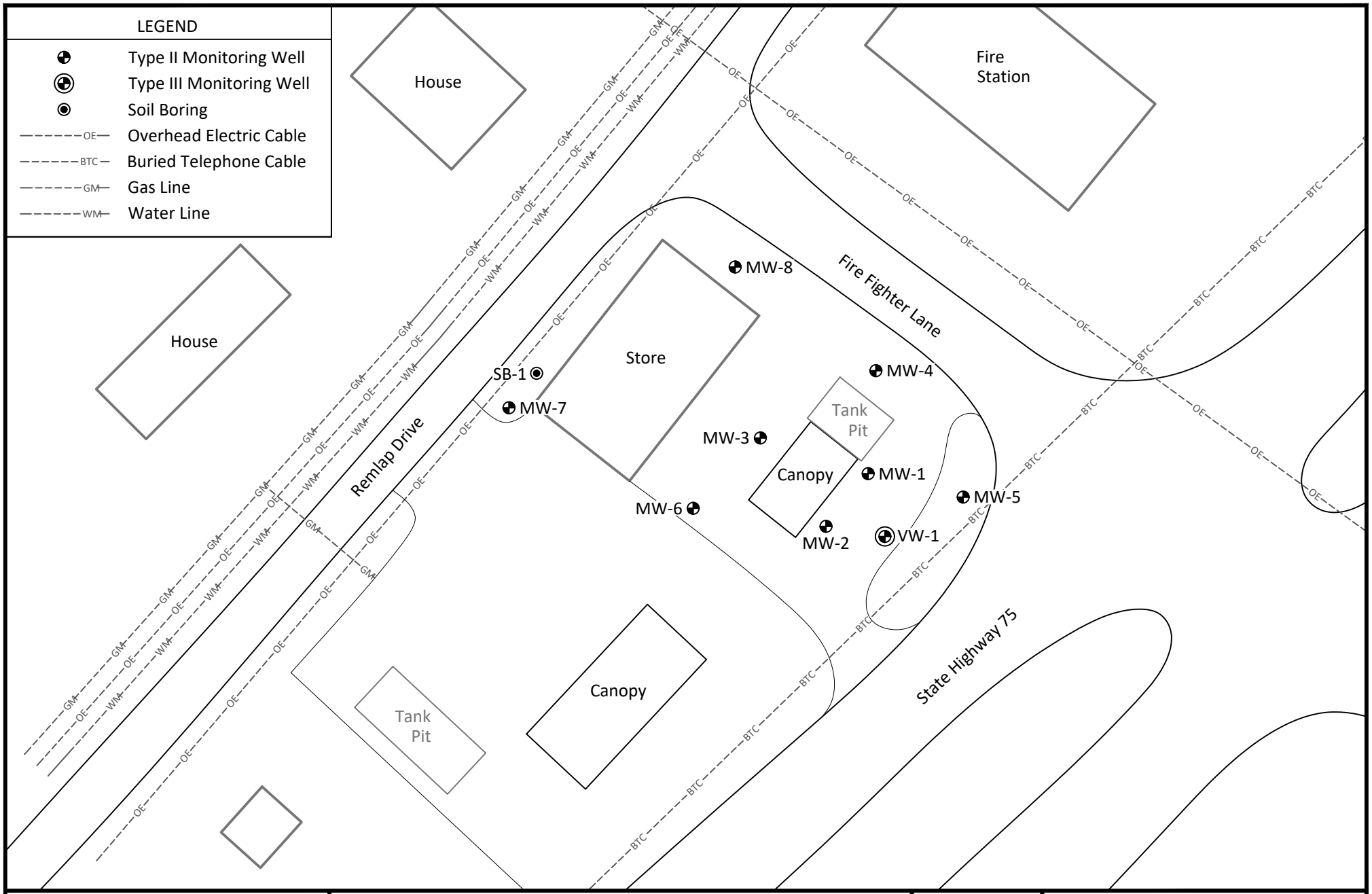


THREE NOTCH GROUP

Recovery Well Construction Detail

Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama

NOT TO SCALE



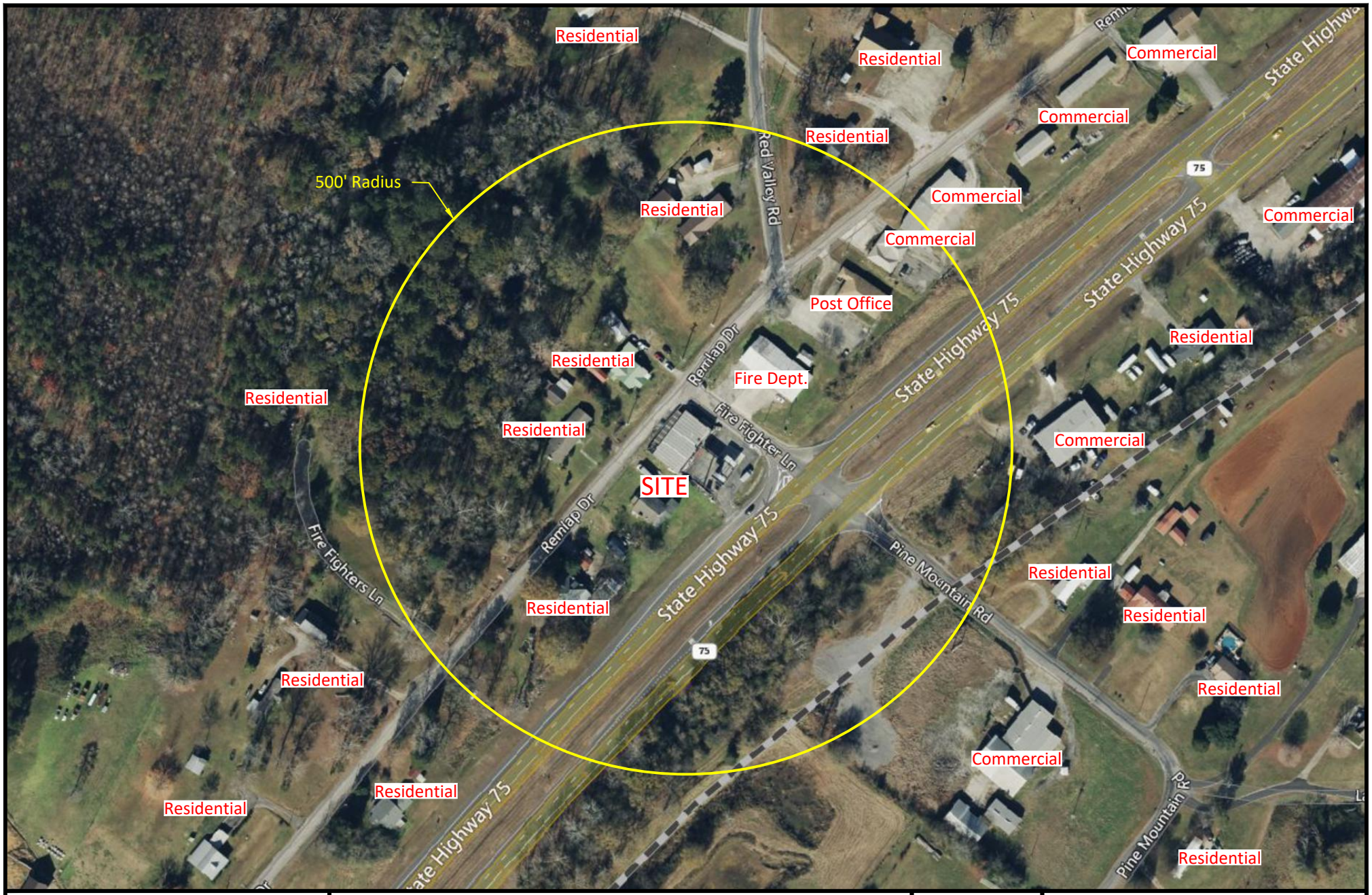
CDG

Site Map with Utility and Well Locations

Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama

Approximate Scale in Feet

0 50 100



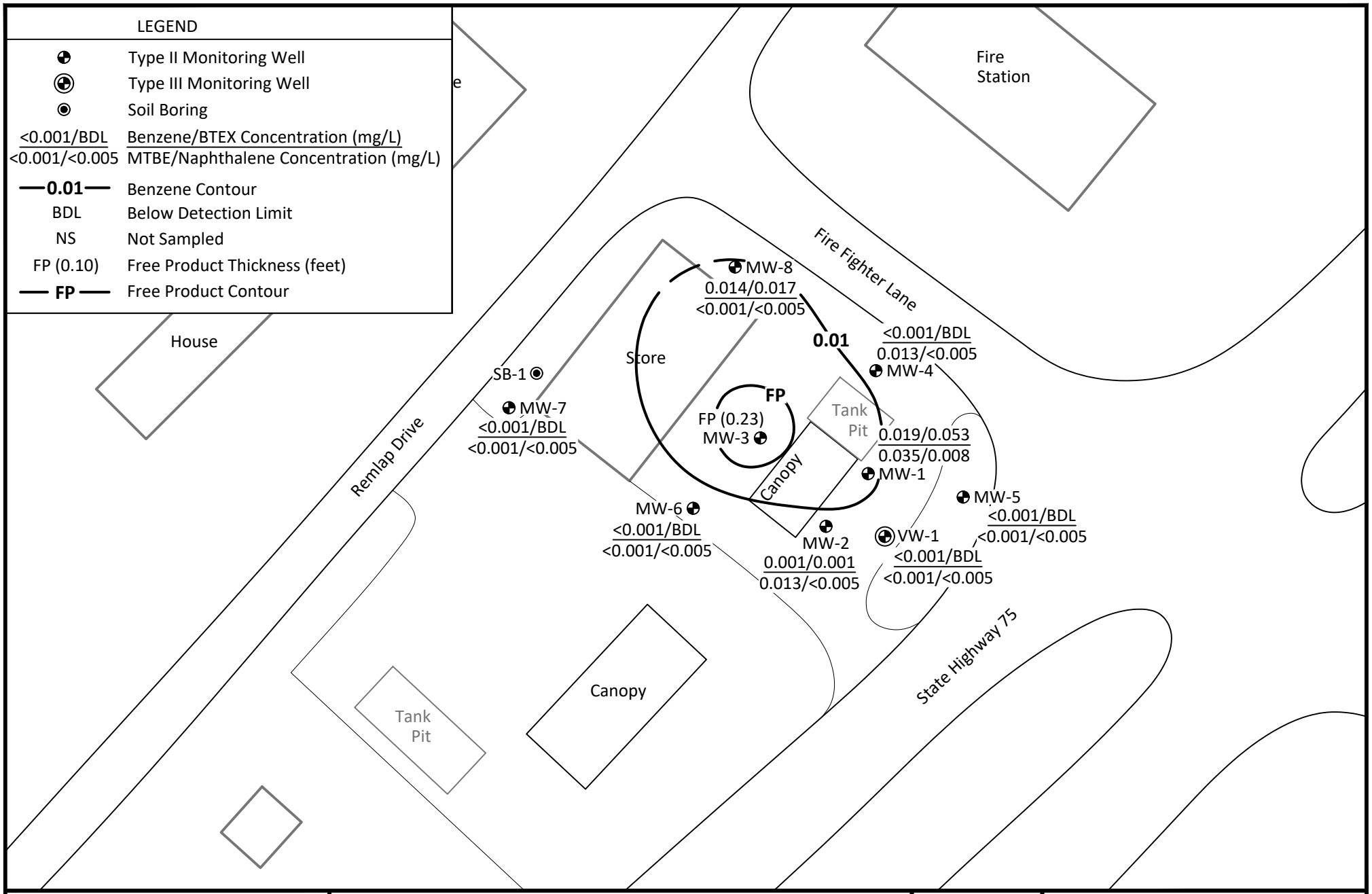
CDG

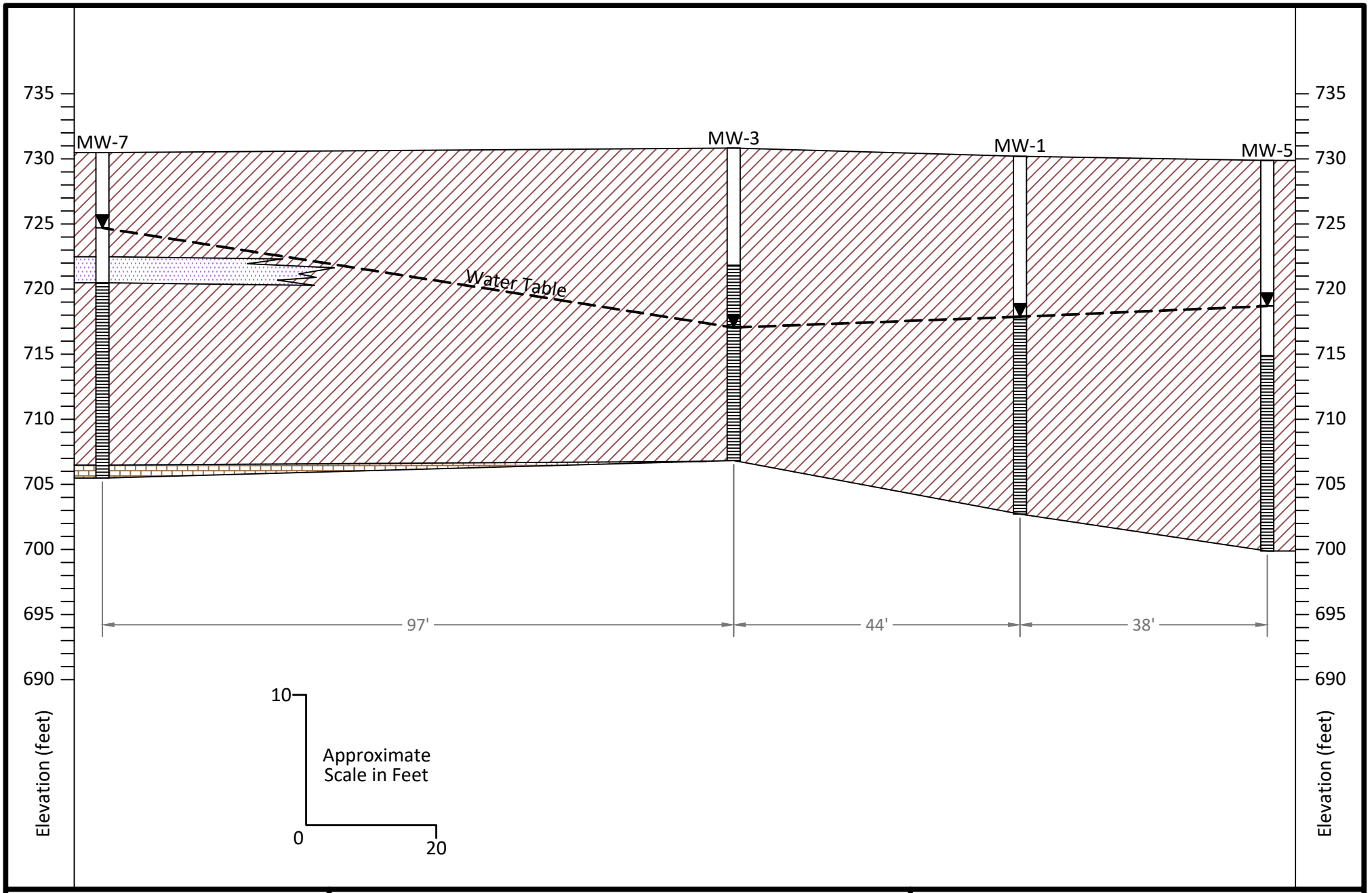
Land Use Map

Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama

Approximate Scale in Feet

0 200 400


LEGEND
Type II Monitoring Well
Type III Monitoring Well
Soil Boring
<0.001/BDL Benzene/BTEX Concentration (mg/L)
<0.001/<0.005 MTBE/Naphthalene Concentration (mg/L)
0.01 Benzene Contour
BDL Below Detection Limit
NS Not Sampled
FP (0.10) Free Product Thickness (feet)
FP Free Product Contour
Fire Station
House
Store
Fire Fighter Lane
Remlap Drive
State Highway 75
Tank Pit
Canopy
Tank Pit
Canopy
MW-8
0.014/0.017
<0.001/<0.005
0.01
<0.001/BDL
0.013/<0.005
MW-4
SB-1
MW-7
<0.001/BDL
<0.001/<0.005
FP
FP (0.23)
MW-3
0.019/0.053
0.035/0.008
MW-1
MW-5
<0.001/BDL
<0.001/<0.005
MW-6
<0.001/BDL
<0.001/<0.005
MW-2
0.001/0.001
0.013/<0.005
VW-1
<0.001/BDL
<0.001/<0.005
THREE NOTCH GROUP
Groundwater Analytical and Benzene Contour Map
December 5, 2024
Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama
Approximate Scale in Feet
0
50
100



Lithologic Cross-Section

Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama

Legend

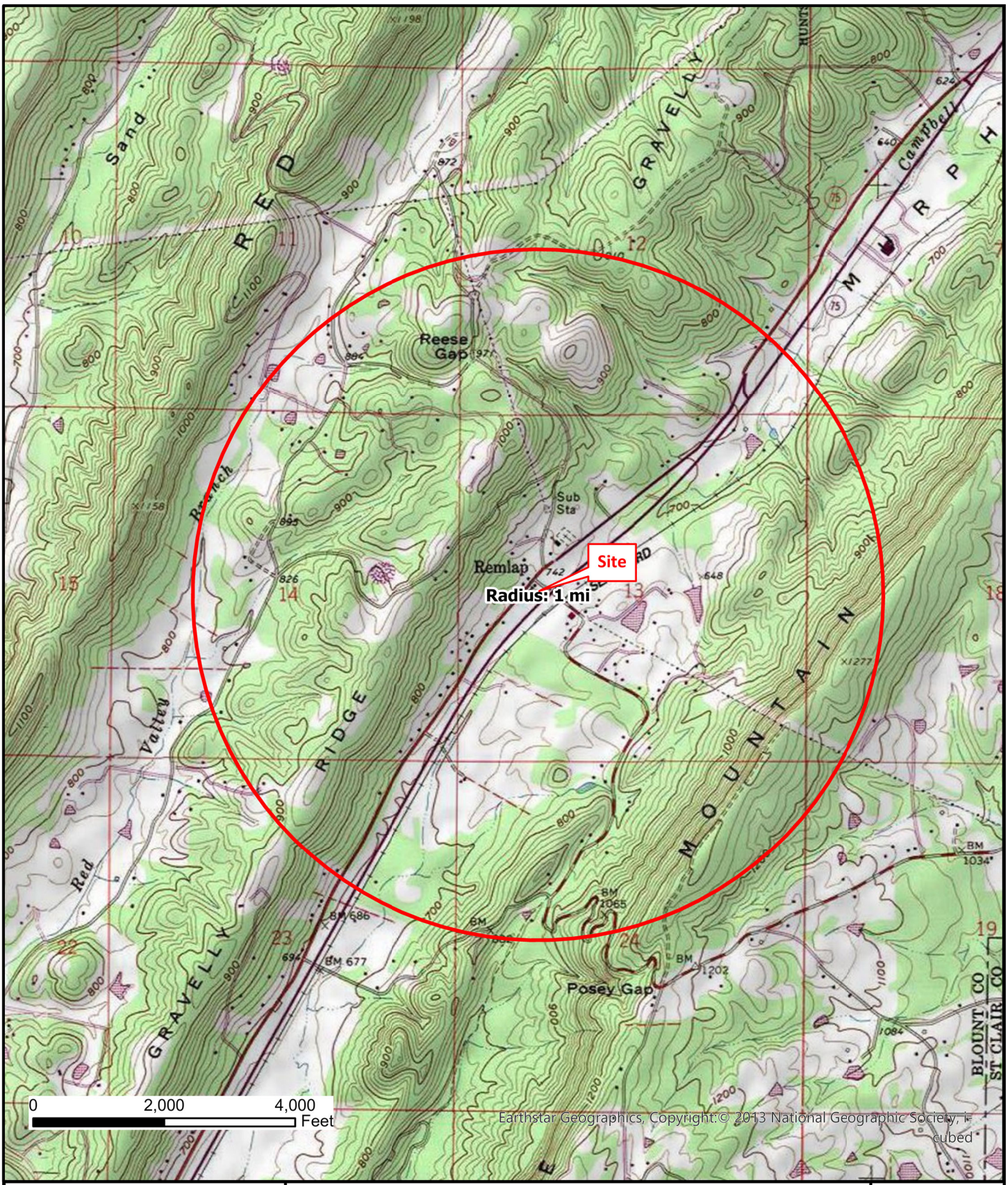
Silty Clay

Sand

Limestone

Screened Interval

Groundwater Level

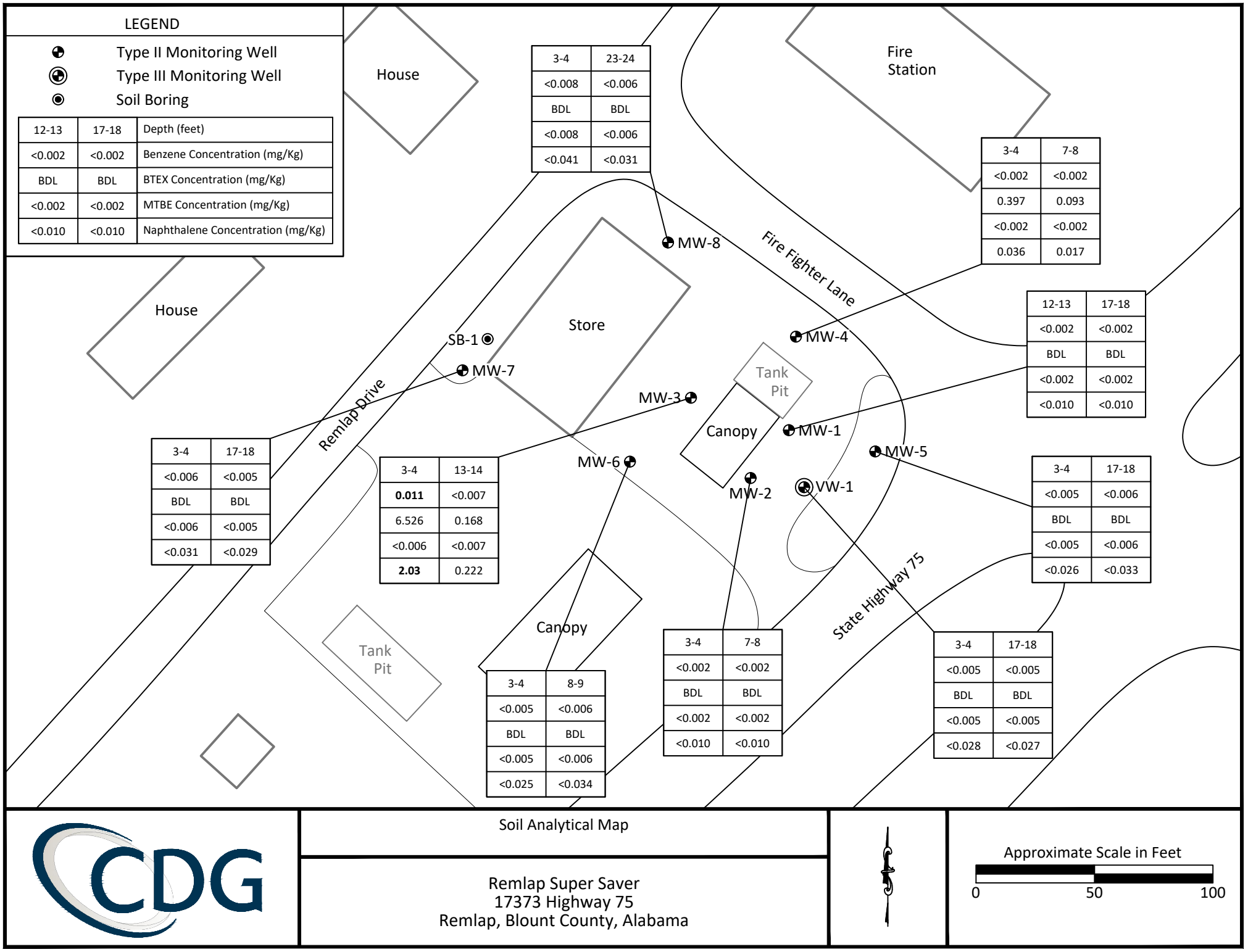


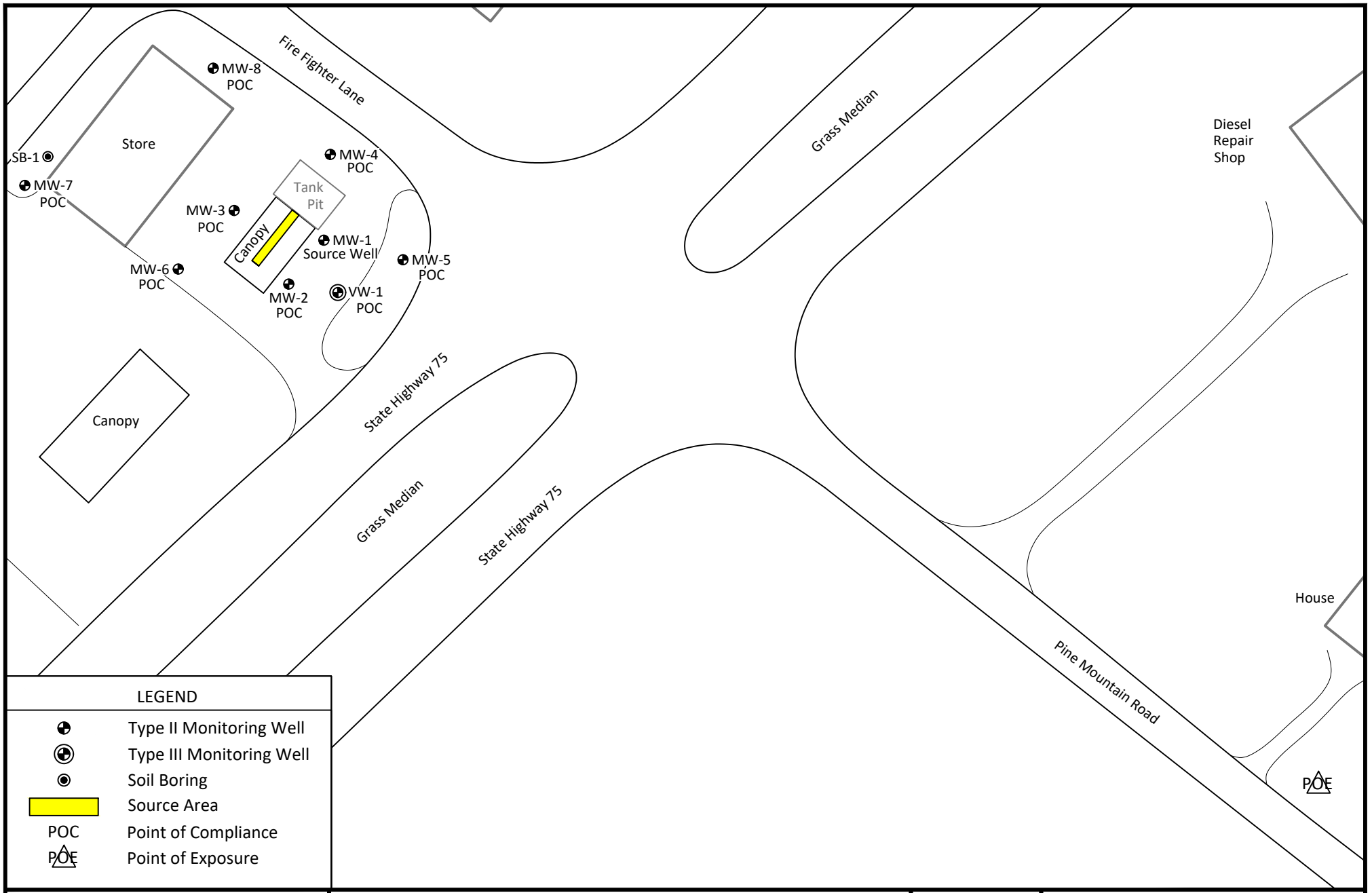
CDG

Water Well Inventory Map

Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama

N


LEGEND
Type II Monitoring Well
Type III Monitoring Well
Soil Boring
12-13 | 17-18 | Depth (feet)
<0.002 | <0.002 | Benzene Concentration (mg/Kg)
BDL | BDL | BTEX Concentration (mg/Kg)
<0.002 | <0.002 | MTBE Concentration (mg/Kg)
<0.010 | <0.010 | Naphthalene Concentration (mg/Kg)
House
House
Fire Station
Store
Canopy
Canopy
Tank Pit
Tank Pit
Remlap Drive
Fire Fighter Lane
State Highway 75
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
SB-1
VW-1
3-4 | 23-24
<0.008 | <0.006
BDL | BDL
<0.008 | <0.006
<0.041 | <0.031
3-4 | 7-8
<0.002 | <0.002
0.397 | 0.093
<0.002 | <0.002
0.036 | 0.017
12-13 | 17-18
<0.002 | <0.002
BDL | BDL
<0.002 | <0.002
<0.010 | <0.010
3-4 | 17-18
<0.006 | <0.005
BDL | BDL
<0.006 | <0.005
<0.031 | <0.029
3-4 | 13-14
0.011 | <0.007
6.526 | 0.168
<0.006 | <0.007
2.03 | 0.222
3-4 | 17-18
<0.005 | <0.006
BDL | BDL
<0.005 | <0.006
<0.026 | <0.033
3-4 | 8-9
<0.005 | <0.006
BDL | BDL
<0.005 | <0.006
<0.025 | <0.034
3-4 | 7-8
<0.002 | <0.002
BDL | BDL
<0.002 | <0.002
<0.010 | <0.010
3-4 | 17-18
<0.005 | <0.005
BDL | BDL
<0.005 | <0.005
<0.028 | <0.027
CDG
Soil Analytical Map
Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama
Approximate Scale in Feet
0
50
100



CDG

Map Identifying POE and POCs

Remlap Super Saver
17373 Highway 75
Remlap, Blount County, Alabama

Approximate Scale in Feet

0 60 120

THREE NOTCH GROUP

ARBCA PROPOSED

SITE SPECIFIC TARGET LEVELS

APPENDIX C

ARBCA SUMMARY REPORT **FORM NO. 27**

UST Incident No(s): 23-01-03 **Facility ID:** 24585-009-007057

Date Form Completed: 05-Dec-24 **Form Completed By:** Mike Kotar

TIER 2 GROUNDWATER RESOURCE PROTECTION TARGET CONCENTRATIONS

Distance from source to the point of exposure (POE): *540*

	COMPARISON FOR SOURCE SOIL			COMPARISON FOR SOURCE GROUNDWATER			COMPARISON FOR COMPLIANCE WELLS								
CHEMICALS OF CONCERN	Soil Source Rep. Conc.[1] [mg/kg]	Allowable Soil Conc.[2] [mg/kg]	E/ NE	GW Source Rep. Conc.[3] [mg/L]	Allowable GW Conc. at a POC[4] [mg/L]	E/ NE	CW Rep. Conc.[5] [mg/L]	Allowable GW Conc. at a POC[6] [mg/L]	E/ NE	CW Rep. Conc.[5] [mg/L]	Allowable GW Conc. at a POC[6] [mg/L]	E/ NE	CW Rep. Conc.[5] [mg/L]	Allowable GW Conc. at a POC[6] [mg/L]	E/ NE
COMPLIANCE WELL NO.				*MW-1*			*MW-2*			*MW-3*			*MW-4*		
DISTANCE FROM SOURCE				*16 ft*			*16 ft*			*21 ft*			*31 ft*		
RECENT TREND				*stable*			*stable*			*stable*			*stable*		
ORGANICS															
Benzene	0.001	0.733	**NE**	0.1138	0.603	**NE**	0.017	0.603	**NE**	3.91	0.599	**E**	0.091	0.547	**NE**
Toluene	0.005	229	**NE**	0.5918	121	**NE**	0.001	121	**NE**	60.3	120	**NE**	0.006	109	**NE**
Ethylbenzene	0.001	102	**NE**	1.0255	84.5	**NE**	0.071	84.5	**NE**	15.8	83.9	**NE**	0.014	76.6	**NE**
Xylenes (Total)	0.001	125	**NE**	1.0255	175	**NE**	0.138	175	**NE**	71.6	175	**NE**	0.023	175	**NE**
MTBE	0.001	1.07	**NE**	0.027	2.41	**NE**	0.027	2.41	**NE**	0.1	2.4	**NE**	0.032	2.19	**NE**
Anthracene															
Benzo(a)anthracene															
Benzo(a)pyrene															
Benzo(b)fluoranthene															
Benzo(g,h,i)perylene															
Benzo(k)fluoranthene															
Chrysene															
Fluoranthene															
Fluorene															
Naphthalene	0.005	39	**NE**	0.35	2.41	**NE**	0.034	2.41	**NE**	4.45	2.4	**E**	0.014	2.19	**NE**
Phenanthrene															
Pyrene															
METALS															
Arsenic															
Barium															
Cadmium															
Chromium VI															
Lead															
Zinc															

NOTE: Use the ***ARBCA Computational Software*** to calculate the allowable (i) soil source conc., (ii) GW source conc., and (iii) compliance well conc.

1: The soil source representative concentrations have to be calculated and entered here.

2: Allowable soil concentrations at the source protective of groundwater at the POE.

3: The groundwater source representative concentrations have to be calculated and entered here.

4: Allowable groundwater concentrations at the source protective of groundwater at the POE.

5: Representative concentrations in the compliance well.

6: Allowable groundwater concentrations at a point of compliance (POC) protective of a POE.

E: Representative concentration exceeds allowable concentration.

NE: Representative concentration does not exceed allowable concentration.

Recommended Attachment: A map showing the location(s) of the soil source(s), location of POE, and location(s) of POC.

ARBCA SUMMARY REPORT **FORM NO. 27**

UST Incident No(s): 23-01-03 **Facility ID:** 24585-009-007057

Date Form Completed: 05-Dec-24 **Form Completed By:** Mike Kotar

TIER 2 GROUNDWATER RESOURCE PROTECTION TARGET CONCENTRATIONS

Distance from source to the point of exposure (POE): *540 ft*

	COMPARISON FOR COMPLIANCE WELLS														
CHEMICALS OF CONCERN	CW Rep. Conc. 5 [mg/L]	Allowable GW Conc. at a POC 6 [mg/L]	E/ NE	CW Rep. Conc. 5 [mg/L]	Allowable GW Conc. at a POC 6 [mg/L]	E/ NE	CW Rep. Conc. 5 [mg/L]	Allowable GW Conc. at a POC 6 [mg/L]	E/ NE	CW Rep. Conc. 5 [mg/L]	Allowable GW Conc. at a POC 6 [mg/L]	E/ NE	CW Rep. Conc. 5 [mg/L]	Allowable GW Conc. at a POC 6 [mg/L]	E/ NE
COMPLIANCE WELL NO.	*MW-5*			*MW-6*			*MW-7*			*MW-8*			*VW-1*		
DISTANCE FROM SOURCE	*52 ft*			*34 ft*			*110 ft*			*75 ft*			*36 ft*		
RECENT TREND	*stable*			*stable*			*stable*			*stable*			*stable*		
ORGANICS															
Benzene	0.0005	0.352	**NE**	0.0005	0.521	**NE**	0.0005	0.109	**NE**	0.06	0.209	**NE**	0.0005	0.502	**NE**
Toluene	0.001	70.4	**NE**	0.001	104	**NE**	0.001	21.8	**NE**	0.001	41.9	**NE**	0.001	100	**NE**
Ethylbenzene	0.0005	49.3	**NE**	0.0005	73	**NE**	0.0005	15.3	**NE**	0.003	29.3	**NE**	0.0005	70.3	**NE**
Xylenes (Total)	0.0005	175	**NE**	0.0005	175	**NE**	0.0005	175	**NE**	0.014	175	**NE**	0.0005	175	**NE**
MTBE	0.0005	1.41	**NE**	0.0005	2.08	**NE**	0.0005	0.436	**NE**	0.0005	0.838	**NE**	0.0005	2.01	**NE**
Anthracene															
Benzo(a)anthracene															
Benzo(a)pyrene															
Benzo(b)fluoranthene															
Benzo(g,h,i)perylene															
Benzo(k)fluoranthene															
Chrysene															
Fluoranthene															
Fluorene															
Naphthalene	0.0025	1.41	**NE**	0.0025	2.08	**NE**	0.0025	0.436	**NE**	0.0025	0.838	**NE**	0.0025	2.01	**NE**
Phenanthrene															
Pyrene															
METALS															
Arsenic															
Barium															
Cadmium															
Chromium VI															
Lead															
Zinc															

NOTE: Use the ***ARBCA Computational Software*** to calculate the allowable (i) soil source conc., (ii) GW source conc., and (iii) compliance well conc.

5: Representative concentrations in the compliance well.

6: Allowable groundwater concentrations at a point of compliance (POC) protective of a POE.

E: Representative concentration exceeds allowable concentration.

NE: Representative concentration does not exceed allowable concentration.

Recommended Attachment: A map showing the location(s) of the soil source(s), location of POE, and location(s) of POC.

ARBCA SUMMARY REPORT	FORM NO. 29a
UST Incident No(s): 23-01-03	**Facility ID: 24585-009-007057**
Date Form Completed: 05-Dec-24	**Form Completed By: Mike Kotar**

TIER 2 ON-SITE TARGET LEVELS FOR INHALATION AND INGESTION

NOTE: The SSTLs listed for each route of exposure are the minimum SSTLs for all the receptors for that particular route of exposure. The Tier 2 on-site target levels are the minimum SSTLs of all routes of exposures within each medium.

CHEMICALS OF CONCERN	SURFICIAL SOIL		SUBSURFACE SOIL			GROUNDWATER			
	Outdoor Inhalation, Ingestion, & Dermal Contact [mg/kg]	On-Site Tier 2 Target Levels [mg/kg]	Indoor Inhalation [mg/kg]	Outdoor Inhalation [mg/kg]	On-Site Tier 2 Target Levels [mg/kg]	Indoor Inhalation [mg/L]	Outdoor Inhalation [mg/L]	Ingestion of Water [mg/L]	On-Site Tier 2 Target Levels [mg/L]
ORGANICS									
Benzene	406	**406**	0.175	62.2	**0.175**	30.6	1750	NA	**30.6**
Toluene	229	**229**	29.6	229	**29.6**	526	526	NA	**526**
Ethylbenzene	102	**102**	102	102	**102**	169	169	NA	**169**
Xylenes (Total)	125	**125**	41.7	125	**41.7**	175	175	NA	**175**
MtBE	378	**378**	457	4050	**457**	48000	48000	NA	**48000**
Anthracene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Benzo(a)anthracene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Benzo(a)pyrene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Benzo(b)fluoranthene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Benzo(g,h,i)perylene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Benzo(k)fluoranthene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Chrysene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Fluoranthene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Fluorene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Naphthalene	95.7	**95.7**	34.7	95.7	**34.7**	31	31	NA	**31**
Phenanthrene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Pyrene	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
METALS									
Arsenic	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Barium	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Cadmium	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Chromium VI	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Lead	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**
Zinc	NA	**NA**	NA	NA	**NA**	NA	NA	NA	**NA**

NOTE:
NA: Not Available

ARBCA SUMMARY REPORT	FORM NO. 29b
UST Incident No(s): 23-01-03	**Facility ID: 24585-009-007057**
Date Form Completed: 05-Dec-24	**Form Completed By: Mike Kotar**

TIER 2 OFF-SITE TARGET LEVELS FOR INHALATION AND INGESTION

NOTE: The SSTLs listed for each route of exposure are the minimum SSTLs for all the receptors for that particular route of exposure. The Tier 2 off-site target levels are the minimum SSTLs of all routes of exposures within each medium.

CHEMICALS OF CONCERN	SURFICIAL SOIL		SUBSURFACE SOIL			GROUNDWATER			
	Outdoor Inhalation, Ingestion, & Dermal Contact [mg/kg]	Off-Site Tier 2 Target Levels [mg/kg]	Indoor Inhalation [mg/kg]	Outdoor Inhalation [mg/kg]	Off-Site Tier 2 Target Levels [mg/kg]	Indoor Inhalation [mg/L]	Outdoor Inhalation [mg/L]	Ingestion of Water [mg/L]	Off-Site Tier 2 Target Levels [mg/L]
ORGANICS									
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	NA	NA	NA	NA	NA	NA	NA	NA	NA
MtBE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS									
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTE:
NA: Not Available

THREE NOTCH GROUP

ADEM FORMS

APPENDIX D

UST RELEASE FACT SHEET

GENERAL INFORMATION:

SITE NAME: Remlap Super Saver
ADDRESS: 17373 Highway 75 & Pine Mountain Road
Remlap, Blount County, Alabama

FACILITY I.D. NO.: 24585-009-007057
INCIDENT NO.: UST23-01-03

RESULTS OF EXPOSURE ASSESSMENT:

How many private drinking water wells are located within 1,000 ft. of site?	0
How many public water supply wells are located within 1 mile of the site?	0
Have any drinking water supply wells been impacted by contamination from this release?	No
Is there an imminent threat of contamination to any drinking water wells?	{ } Yes {X} No
Have vapors or contaminated groundwater posed a threat to the public?	{ } Yes {X} No
Are any underground utilities impacted or imminently threatened by the release?	{ } Yes {X} No
Have surface waters been impacted by the release?	{ } Yes {X} No
Is there an imminent threat of contamination to surface waters?	{ } Yes {X} No
What is the type of surrounding population?	Commercial/Residential

CONTAMINATION DESCRIPTION:

Type of contamination at site: {X} Gasoline, {X} Diesel, { } Waste Oil
{ } Kerosene, { } Other _____

Free product present in wells? { X } Yes { } No Maximum thickness measured: 0.23 ft MW-3 12/5/24

Maximum TPH concentrations measured in soil: N/A

Maximum BTEX or PAH concentrations measured in groundwater: 105.21 mg/L in MW-3 (02/05/24)

ADEM GROUNDWATER BRANCH
UST SITE CLASSIFICATION SYSTEM
CHECKLIST

Please read all of the following statements and mark either yes or no if the statement applies to your site. If you have conducted a Preliminary or Secondary Investigation, all questions should be answered. Closure site assessment reports may not provide you with all the necessary information but answer the statements with the knowledge obtained during the closure site assessment.

SITE NAME:	Remlap Super Saver
SITE ADDRESS:	17373 Highway 75 & Pine Mountain Road
	Remlap, Blount County, AL
FACILITY I.D. NO.:	24585-009-007057
UST INCIDENT NO.:	UST23-01-03
OWNER NAME:	Dharma Bhakti, LLC
OWNER ADDRESS:	17373 Hwy 75
	Remlap, AL 35133
NAME & ADDRESS OF PERSON COMPLETING THIS FORM:	Alecia Hamilton
	Three Notch Group
	700 Southgate Drive, Suite A
	Pelham, AL 35124

CLASSIFICATION	***DESCRIPTION***	***YES***	***NO***
CLASS A	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
A.1	Vapor concentrations at or approaching explosive levels that could cause health effects, are present in a residence or building.	☐	☒
A.2	Vapor concentrations at or approaching explosive levels are present in subsurface utility system(s), but no buildings or residences are impacted.	☐	☒
CLASS B	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
B.1	An active public water supply well, public water supply line or public surface water intake is impacted or immediately threatened.	☐	☒
B.2	An active domestic water supply well, domestic water supply line or domestic surface water intake is impacted or immediately threatened.	☐	☒
B.3	The release is located within a designated Wellhead Protection Area I.	☐	☒
CLASS C	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
C.1	Ambient vapor/particulate concentrations exceed concentrations of concern from an acute exposure, or safety viewpoint.	☐	☒
C.2	Free product is present on the groundwater, at ground surface, on surface water bodies, in utilities other than water supply lines, or in surface water runoff.	☒	☐

CLASSIFICATION	*DESCRIPTION*	*YES*	*NO*
CLASS D	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
D.1	There is a potential for explosive levels, or concentrations of vapors that could cause acute effects, to accumulate in a residence or other building.	☐	☒
D.2	A non-potable water supply well is impacted or immediately threatened.	☐	☒
D.3	Shallow contaminated surface soils are open to public access, and dwellings, parks, playgrounds, day care centers, schools or similar use facilities are within 500 feet of those soils.	☐	☒
CLASS E	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
E.1	A sensitive habitat or sensitive resources (sport fish, economically important species, threatened and endangered species, etc.) are impacted and affected.	☐	☒
CLASS F	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
F.1	Groundwater is impacted, and a public well is located within 1 mile of the site.	☐	☒
F.2	Groundwater is impacted and a domestic well is located within 1,000 feet of the site.	☐	☒
F.3	Contaminated soils and/or groundwater are located within designated Wellhead Protection Areas (Areas II or III).	☐	☒
CLASS G	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
G.1	Contaminated soils and/or groundwater are located within areas vulnerable to contamination from surface sources.	☒	☐
GLASS H	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
H.1	Impacted surface water, storm water or groundwater discharges within 500 feet of a surface water body used for human drinking water, whole body water-contact sports, or habitat to a protected or listed endangered plant and animal species.	☐	☒
CLASS I	LONG TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
I.1.	Site has contaminated soils and/or groundwater but does not meet any of the above-mentioned criteria.	☐	☒

ADDITIONAL COMMENTS:

Complete the classification evaluation questions listed above. Upon completion, determine the highest rank of the site (A.1 is the highest rank) based on the statements answered with a yes.

Enter the determined classification ranking:	C.2

THREE NOTCH GROUP

TASKS PERFORMANCE SUMMARY

APPENDIX E

TASK PERFORMANCE SUMMARY

Cap Evaluation/Development
April 2025 (CP-08)
Remlap Super Saver
17373 Highway 75 & Pine Mountain Road
Remlap, Blount County, Alabama

Task Completed by Personnel/Title:	Project Management	Work Plan Preparation/ Review	Cost Proposal Preparation/ Review	Field Work	Data Interpretation/ Tabulations	Drafting	Report Preparation/ Review	Payment Request Preparation/
Alec Black, PG							X	
David Dailey, P.E.							X	
Michelle Grantham, PM	X		X					X
Alecia Hamilton, PM	X		X		X		X	X
John David Galloway, ES/Tech								
Ray Hollinghead, Drafter						X		
Karen Moore, Admin	X							
Michelle Wilson, Admin							X	
Kim Ballard, Admin			X					X
Leigh Caylor, Admin								X
Lee Ann Wagner, Admin			X				X	X

Notes:
DO=Drilling Oversight
BL=Boring Log Description/Soil Classification
WG=Well Gauging
GSC=Groundwater Sample Collection
MEME=MEME Oversight
PM=Project Management
O&M=Routine Operation & Maintenance
HRS=High Resolution Study
VM=Vapor Monitoring
FC=Fan Check

THREE NOTCH GROUP

MEME SYSTEM SPECIFICATIONS

APPENDIX F

MEME TECHNOLOGY OVERVIEW

Mobile Enhance Multi-phase Extraction (MEME) technology is used to remove volatile organic compounds (VOCs) present in the free phase, dissolved phase, and absorbed phase in the subsurface to cost effectively remediate contaminated sites. This technology has been used for more than 20 years, and it remains as one of the most effective technologies for the remediation of petroleum impacted soil and groundwater.

Fruits & Associates MEME system removes vapors and liquids simultaneously from the subsurface. Ambient air (approximately 5 cubic feet per minute) is introduced through the casing of monitoring wells, across the groundwater interface, and back up a drop tube, creating turbulence, which provides the ability to extract groundwater. A Dwyer flowmeter is attached to a well head is used to measure the amount of ambient air, which is subtracted from the total flow. Magnehelic vacuum gauges are also used to measure the extraction vacuum, as well as the vacuum applied to the subsurface.

The extracted vapors and liquids are transferred to the MEME system's treatment system, where the liquids are removed in the air/water separator and transferred into a storage tank for proper disposal. The remaining vapors are treated using a forced air thermal oxidation (ThOx) unit and incinerated at up to 1,500 degrees Fahrenheit. The treated air is then discharged into the atmosphere after receiving approval from the Alabama Department of Environmental Management (ADEM).

FRUITS & ASSOCIATES MEME SYSTEM SPECS

Vacuum System:
- Roots 406 DVJ Vacuum Pump
  - Unit may be operated dry to 24"Hgg
  - 30 HP Motor, XP, 460 Vac 3 Ph 60 Hz, 3550 RPM
  - Direct Coupled
  - Inline Filter
  - Discharge Silencer, custom
  - Acoustical Enclosure - frame style, painted to customer specified color
- Inlet Air/Water Separator
  - Reservoir Capacity, 60 gallon
  - 304 Stainless Steel Construction
  - Impingement Baffle Section
- Extraction Pump, Moyno
  - 304 SS Interconnection vapor pipe
  - 304 SS Water Tank Mounted on Deck approx 1600 gallon
  - Dilution Air 4-20 MA electric actuated valve
  - Jet Port electric actuated valve

20 Ton Trailer, B&B, 25', Pintle Hitch

Generator - Diesel, 45 KW Remote Start
- 460 Vac, 3 Ph, 60 Hz
- NOT acoustically treated but enclosed

Thermal Oxidizer Rated to 7.5 MM Btu/hr
304 SS body and stack
- Propane burner
- Burner and Gas train

On board Propane fuel capacity of 320 gallons
- Four propane tanks mounted on the underside of trailer

Control System
- 30 HP VFD Box for Vacuum Pump
- Line Reactor
- Motor Control Panel for burner fan and extraction pump
- One box combined oxidizer control and system control
- Allen Bradley Micrologix 1400
- Android tablet for remote control
- Cellular Modem
- Local Wireless Network

Instrumentation Includes:

-(2) Vacuum Transmitters before blower
-(1) Pressure Transmitter after blower
-(2) Fox Flow Transmitters blower inlet and jet port
-(3) RTD Transmitters blower inlet, discharge, enclosure
-(2) Oxidizer Thermocouples
-(3) Liquid level switches, separator control
-(3) Liquid level switches, water reservoir

Flame arrestor is included.

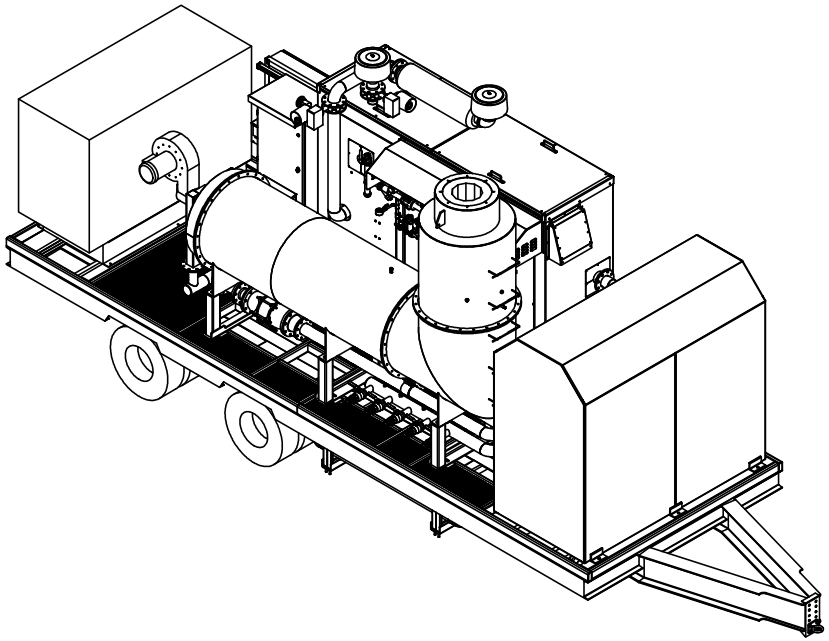
Unit will be fully tested prior to shipment. Control Panel will be UL698a stamped. Customer onsite training will be supplied for 2 days on a site in Alabama and initial training at the pdblowers Gainesville location. The vacuum system will be controlled by a variable frequency drive that will allow it to operate from approximately 400 ACFM (Actual Cubic Feet per Minute) at 4”Hgg to 330 ACFM at 24”Hgg. Maximum vacuum level is 26"Hgg at 150 ACFM . Minimum allowable speed would be 850 RPM operating within design specs. Jet port for the blower operates automatically at higher vacuum levels. This allows the unit to pull a higher vacuum on the process stream.

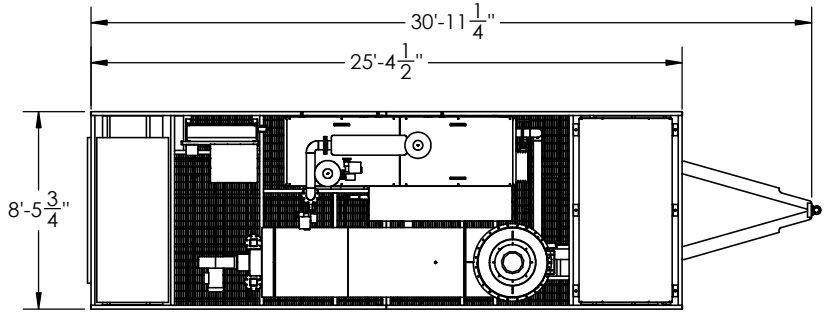
Deck mounted holding tank (approx 1600 gallons) for extented operation. The tank should be pumped to an exceptable weight before traveling on the road.

Thermal Oxidizer System

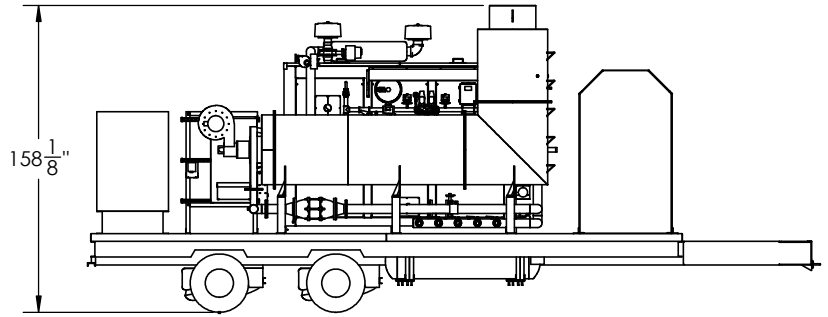
The thermal oxidizer will be designed to consume up to 7.5 MMBtu/hr of fuel and volatile vapors. The vessel will be constructed of 304 SS, 3/16” thick. Combustion air will be supplied by a turbo blower, 5HP with variable frequency drive. Volatile vapors will be introduced into the chamber via the vacuum system discharge and a through a flame arrester. Combustion air requirements will vary from over 1100 scfm down to 160 scfm depending on Btu requirements.

DWG. NO.
60097





TOP VIEW



FRONT VIEW

JOB NUMBER	PARENT P/N
403803	

PROPRIETARY AND CONFIDENTIAL

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UNLESS OTHERWISE SPECIFIED:	DRAWN	DATE	NAME
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/2" ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	AUTHOR	02/16/21	MH
	CHECKED BY		
	MFG APPR.		
	COMMENTS:		
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL: SEE BOM			
THICKNESS:			
FINISH			
WEIGHT: 40920.40			

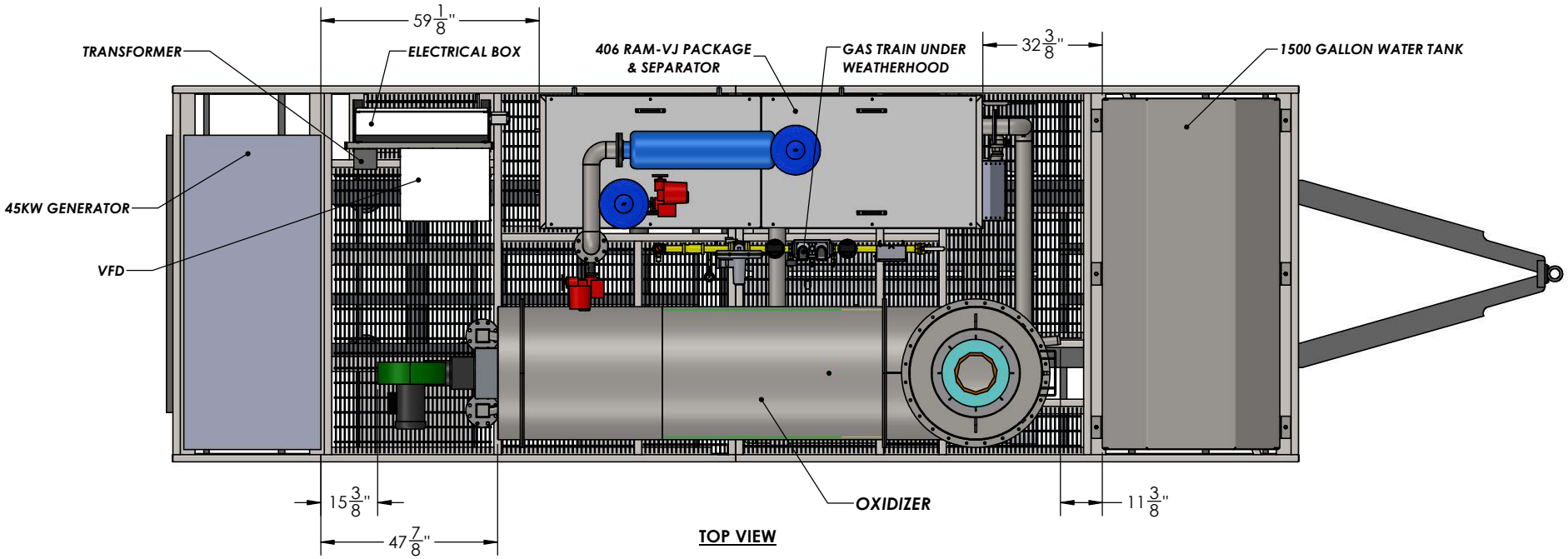
pdblowers inc
2280 Chicopee Mill Road SW • Gainesville, GA • 30504
800-536-9933

TITLE:
TRAILER, REMEDIATION
45KW GENERATOR
406VJ, THERMOX

SIZE	DWG. NO.	REV
B	60097	

SCALE: 1:46 | SHEET 1 OF 3

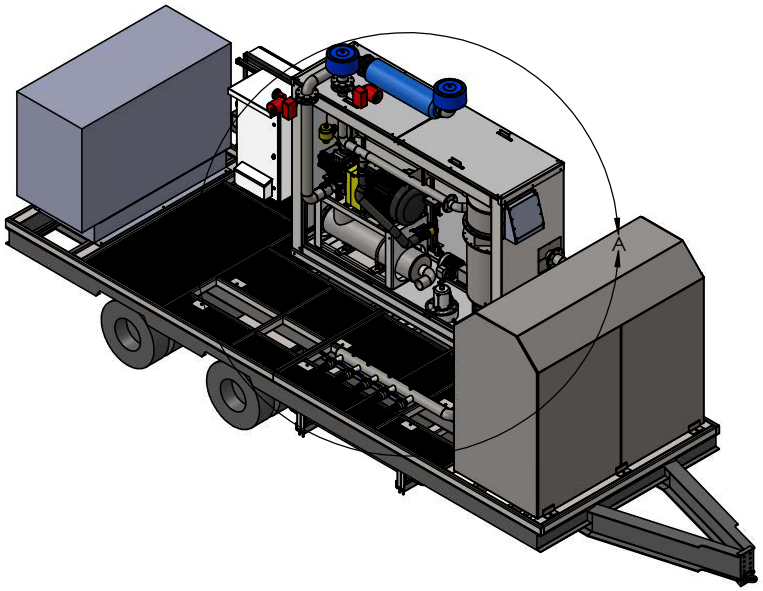
DWG. NO.
60097

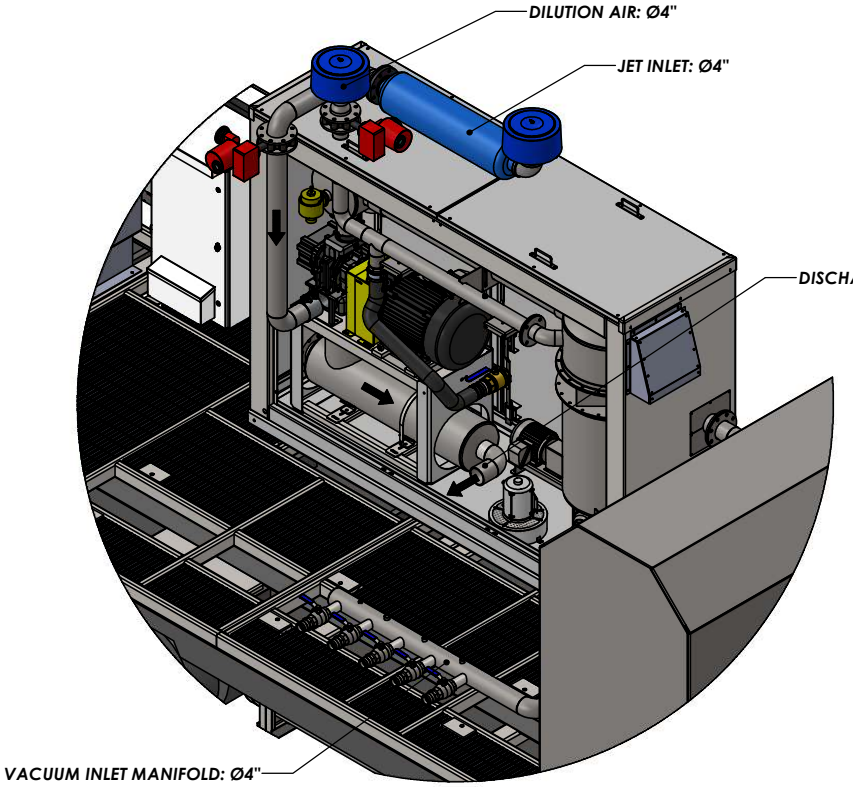


TOP VIEW

UNLESS OTHERWISE SPECIFIED:	DRAWN	DATE	NAME	pdblowers inc	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/64" ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	AUTHOR	02/16/21	MH	2280 Chicopee Mill Road SW • Gainesville, GA • 30504 800-536-9933	
	CHECKED BY				
	MFG APPR.				
	COMMENTS:			TITLE: TRAILER, REMEDIATION 45KW GENERATOR 406VJ, THERMOX	
JOB NUMBER: 403803	PARENT P/N:			SIZE: B	DWG. NO.: 60097
INTERPRET GEOMETRIC TOLERANCING PER:				REV:	
MATERIAL: SEE BOM				SCALE: 1:28	SHEET 2 OF 3
THICKNESS:					
FINISH					
WEIGHT: 40877.72					

DWG. NO.
60097





DETAIL A
SCALE 1 : 28

UNLESS OTHERWISE SPECIFIED:	DRAWN	DATE	NAME
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/2" ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	AUTHOR	02/16/21	MH
	CHECKED BY		
	MFG APPR.		
COMMENTS:			

JOB NUMBER	PARENT P/N
403803	

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: SEE BOM

THICKNESS:

FINISH

WEIGHT: 34785.16

pdblowers inc
2280 Chicopee Mill Road SW • Gainesville, GA • 30504
800-536-9933

TITLE:
TRAILER, REMEDIATION
45KW GENERATOR
406VJ, THERMOX

SIZE	DWG. NO.	REV
B	60097	

SCALE: 1:50 SHEET 3 OF 3