THREE NOTCH GROUP

GREYSTONE CHEVRON

CAP EVALUATION/DEVELOPMENT

ATTF CP-17

March 2, 2026

6950 Cahaba Valley Road
Hoover, Shelby Co., AL

FAC ID 21152-117-018549
UST 22-08-01

PREPARED FOR

Greystone Petro, LLC
7415 Gadsden Highway
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PREPARED BY

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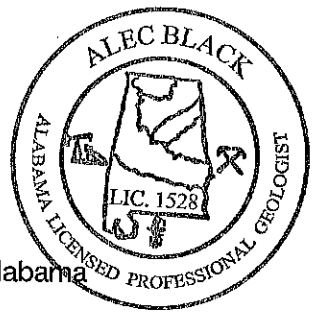
CERTIFICATION PAGE

"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 Greystone Chevron site (Facility Identification Number 21152-117-018549) in Hoover, Shelby County, Alabama. The recommended action should not be construed to apply to any other site.



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Date

APPENDICES

INTRODUCTION

The Greystone Chevron facility is located at 6950 Cahaba Valley Road in Hoover, Shelby County, Alabama. The facility is a commercial property that currently operates as a gasoline station and convenience store. The site contains one 12,000-gallon unleaded gasoline underground storage tank (UST) and one 12,000-gallon split compartment premium unleaded gasoline and diesel fuel UST. The USTs are located on the southeastern corner of the property. The Alabama Tank Trust Fund (ATTF) responsible party for the Greystone Chevron site is Greystone Petro, LLC.

On August 5, 2022, a line leak was detected at the site. Subsequently, the line was repaired, and a release report was submitted to the Alabama Department of Environmental Management (ADEM). It was estimated that approximately 60 gallons of premium unleaded gasoline had been lost. Due to the release of petroleum products, which either polluted or posed a threat of pollution to waters of the state, the ADEM sent the responsible party, Greystone Petro, LLC., a Notification of Requirement (NOR) to conduct Investigative and Corrective Actions in a letter dated August 25, 2022. In additional letters, the ADEM issued a Notice of Alabama Tank Trust Fund Eligibility, and Pre-Approved Cost Proposal (CP-01) for conducting Preliminary Investigation activities. Greystone Petro, LLC. contracted Three Notch Group, Inc. (Three Notch) as the ATTF contractor.

A water well inventory has been completed for the area surrounding the site. Results of the inventory indicate that there are no public water supply wells located within one mile of the site. Additionally, Three Notch conducted a visual survey of the surrounding area and did not identify any private wells within 1,000 feet of the site.

To date, both a Preliminary Investigation and a Secondary Investigation, as well as an Additional Well Installation, groundwater monitoring, Mobile Enhanced Multi-Phase Extraction (MEME), and Alabama Risk Based Corrective Action (ARBCA) Evaluation activities have been completed at the site. Currently, there are a total of ten Type II monitoring wells and one Type III vertical delineation well at the site.

In order to address the on-site dissolved hydrocarbon plume, the 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-09.

SUMMARY OF PREVIOUSLY CONDUCTED CORRECTIVE ACTIONS

To date, ten groundwater monitoring events have been conducted at the site between November 2022 and October 2025. Additionally, fifteen MEME events have been conducted between September 2024 and January 2026.

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. The analytical results from the soil samples collected during the site characterization activities indicated that concentration levels exceeding ADEM ISLs are present at the site. Figures located in Appendix B show the locations of the soil boring locations and the distribution of soil COC concentrations across the site. The vadose zone soils are predominantly comprised of sandy clays, clay, and silty clay. The site has an estimated effective porosity of 18.5% and an average volumetric moisture content of 33.5% within the vadose zone as calculated from the ARBCA Tier I default values.

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 25.24 feet below land surface (ft-bls). Based on the most recent groundwater level measurements collected during the October 30, 2025, 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 south. The hydraulic gradient was approximately 0.0388 according to measurements taken from monitoring wells MW-2 and MW-9.

Slug testing conducted during the Secondary Investigation activities indicated that the average hydraulic conductivity (K) of the site soils was approximately 3.12 x 10-6 cm/yr. Based on these values, the anticipated Darcy velocity (Ki) of groundwater flow beneath the site would be approximately 3.82 cm/yr. Free phase product has been observed during the history of the assessment activities at the site. Using the analytical data collected during the October 30, 2025, 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. Complete exposure pathways do not exist for dermal contact and indoor and outdoor vapor inhalation from impacted soil and groundwater for off-site residents. Complete exposure pathways exist for indoor and outdoor vapor inhalation from impacted groundwater for both off-site commercial workers and 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 Greystone Chevron site, an ARBCA Tier I/Tier II Evaluation was performed in April 2025. 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 and included in Appendix C.

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	318	0.105	-	0.093	22.3	22.3
Toluene	144	14.3	-	28.1	526	526
Ethylbenzene	59.6	47.3	-	25.3	169	169
Xylenes	69.1	17.7	-	69.1	175	175
MTBE	378	394	-	0.194	39,600	39,600
Naphthalene	43.1	12	-	2.85	31	31

A more detailed presentation of these values is provided in the April 2025 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 Greystone Chevron site:

- The vadose zone soils are comprised of silty clay, gravelly clay, and clay mixtures.
- Soil has a porosity of 37.0%.
- Volumetric moisture content within the vadose zone was calculated to be 33.5%.
- Available porosity for vapor transport within the vadose zone is 3.5%.

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 25.24 ft-bls.
- The average hydraulic conductivity within the saturated zone is 3.12×10^{-6} cm/yr.
- The general groundwater flow beneath the site is to the southwest.

- The average hydraulic gradient across the site is 0.0388.
- The calculated Darcy velocity for groundwater flow is 3.82 cm/yr.
- Measurable accumulations of free phase product have been detected at the site.

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 indoor and outdoor vapor inhalation from soil and groundwater for commercial and construction workers and for dermal contact with affected soil by construction workers. The Point of Exposure (POE) used during the ARBCA was a private well located 520 ft downgradient (southwest) of the source area.

The BTEX/MTBE/Naphthalene analyses from the October 25, 2025, groundwater monitoring event indicate that benzene concentrations were present at the site at levels above SSTLs for GRP in two (MW-3 and MW-4) of the ten sampled monitoring wells. In addition, monitoring well MW-2 contained a measurable accumulation of free product. The presence of free product and dissolved hydrocarbon concentrations above the SSTLs will require remediation.

REMEDIATION RATIONAL AND APPROACH

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

Full-scale technologies addressing both soil and groundwater were reviewed for applicability to the Greystone Chevron 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. Source soils exist at the site to at least 20 ft-bls and groundwater is present at approximately 17-24 ft-bls. The excavation would require constant de-watering in order to complete the source soil removal. 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 18.5% and high intrinsic permeability that would allow for 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. With high permeability in the soils encountered, a soil-vapor extraction well network could be effective with a well-to-well spacing of 30 feet or less. 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). Due to the presence of free product, bioremediation would not be feasible at present. However, given the moderate concentrations of dissolved phase hydrocarbons present in the source area, bioremediation would be a viable remediation alternative for the site. Bioremediation could be considered as a future corrective action approach.

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 presence of the convenience store and multiple underground utilities within the source area, Three Notch contends that the risks associated with the application of ISCO in sufficient quantities to address the current contaminant concentrations outweigh the benefits at the Greystone Chevron 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 Greystone

Chevron 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 Greystone Chevron 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 source area on the site, Three Notch recommends that four additional 4-inch diameter recovery wells be installed at the site. The total depths of the proposed recovery wells would be set between 35 ft-bls and 40 ft-bls. Each well would contain approximately 20 feet of 0.020-inch slotted well screen.

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 source 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).

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 four proposed 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 a cost proposal for CAP Implementation for RNA with MEME activities.

THREE NOTCH GROUP

TABLES

APPENDIX A

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-1**		
INSTALLATION DATE:	10/24/22	WELL DEPTH (FT BTOC):	45.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	625.17	WELL TYPE: DIAMETER (IN):	II 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
11/07/22	23.21	601.96	-	10.5
05/04/23	17.98	607.19	-	13.0
02/05/24	13.80	611.37	-	15.0
04/08/24	21.51	603.66	-	11.5
07/01/24	26.31	598.86	-	9.0
10/28/24	29.94	595.23	-	7.0
02/12/25	27.41	597.76	-	8.5
05/12/25	8.45	616.72	-	17.5
08/11/25	15.07	610.10	-	14.5
10/30/25	26.83	598.34	-	8.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
11/07/22	-	-	-
05/04/23	-	-	-
02/05/24	2.23	6.83	128.3
04/08/24	15.41	7.07	-14.5
07/01/24	12.34	7.18	-8.2
10/28/24	6.06	5.07	257.7
02/12/25	2.36	5.94	-29.6
05/12/25	2.02	5.98	232.1
08/11/25	6.31	6.51	199.8
10/30/25	1.97	6.83	247.6

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-1**	
INSTALLATION DATE:	10/24/22	WELL DEPTH (FT BTOC):	45.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	625.17	WELL TYPE: II DIAMETER (IN): 2

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
11/07/22	0.080	0.023	<0.002	0.052	0.184	0.259	0.014
05/04/23	0.811	0.022	<0.002	<0.001	<0.001	0.022	<0.005
02/05/24	0.801	0.070	<0.002	0.002	0.044	0.116	<0.005
04/08/24	0.730	0.024	<0.002	<0.001	<0.001	0.024	<0.005
07/01/24	1.38	0.024	<0.002	<0.001	<0.001	0.024	<0.005
10/28/24	0.686	0.018	<0.002	<0.001	<0.001	0.018	<0.005
02/12/25	0.655	0.021	<0.002	<0.001	<0.001	0.021	<0.005
05/12/25	0.588	0.021	<0.020	<0.010	<0.010	0.021	<0.050
08/11/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/30/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**1.92**	**0.48**	**96**	**67.2**	**175**	**-**	**1.92**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	**-**	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-2**	
INSTALLATION DATE:	10/24/22	WELL DEPTH (FT BTOC):	37.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	626.38	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
11/07/22	23.15	603.23	-	6.5
05/04/23	21.55	604.83	-	7.5
02/05/24	16.85	609.53	-	9.5
04/08/24	22.08	604.30	-	7.0
07/01/24	29.34	597.11	0.09	-
10/28/24	32.03	594.43	0.11	-
02/12/25	30.49	596.03	0.19	-
05/12/25	7.71	618.67	-	14.0
08/11/25	22.96	603.42	-	6.5
10/30/25	27.61	599.01	0.32	-

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
11/07/22	-	-	-
05/04/23	-	-	-
02/05/24	2.20	6.93	157.7
04/08/24	22.73	6.62	-103.1
07/01/24	FREE PRODUCT (0.09 FT)		
10/28/24	FREE PRODUCT (0.11 FT)		
02/12/25	FREE PRODUCT (0.19 FT)		
05/12/25	1.94	5.99	248.9
08/11/25	5.41	6.06	229.7
10/30/25	FREE PRODUCT (0.32 FT)		

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-2**	
INSTALLATION DATE:	10/24/22	WELL DEPTH (FT BTOC):	37.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	626.38	WELL TYPE: II DIAMETER (IN): 2

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
11/07/22	0.084	0.117	0.010	<0.001	0.366	0.493	<0.005
05/04/23	0.068	0.150	0.003	0.577	0.053	0.783	0.171
02/05/24	<0.001	0.055	<0.002	0.148	0.058	0.261	0.124
04/08/24	0.037	**1.15**	3.41	0.902	1.96	7.422	0.249
07/01/24	NOT SAMPLED - FREE PRODUCT (0.09 FT)						
10/28/24	NOT SAMPLED - FREE PRODUCT (0.11 FT)						
02/12/25	NOT SAMPLED - FREE PRODUCT (0.19 FT)						
05/12/25	<0.010	<0.010	0.043	0.050	0.378	0.471	0.094
08/11/25	<0.050	0.070	<0.100	0.124	1.31	1.504	<0.250
10/30/25	NOT SAMPLED - FREE PRODUCT (0.32 FT)						
GRP SSTLs:	**1.92**	**0.48**	**96**	**67.2**	**175**	**-**	**1.92**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	**-**	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-3**		
INSTALLATION DATE:	10/25/22	WELL DEPTH (FT BTOC):	41.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	626.67	WELL TYPE: DIAMETER (IN):	II 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
11/07/22	24.78	601.89	-	8.0
05/04/23	21.28	605.39	-	9.5
02/05/24	12.39	614.28	-	13.5
04/08/24	26.28	600.39	-	7.0
07/01/24	30.23	596.44	-	41.0
10/28/24	32.30	594.37	-	4.0
02/12/25	31.21	595.74	0.38	-
05/12/25	6.89	619.78	-	16.5
08/11/25	24.15	602.52	-	8.0
10/30/25	25.30	601.37	-	7.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
11/07/22	-	-	-
05/04/23	-	-	-
02/05/24	3.10	7.43	166.4
04/08/24	21.03	7.30	-128.4
07/01/24	16.54	7.26	4.3
10/28/24	1.88	6.57	202.6
02/12/25	FREE PRODUCT (0.38 FT)		
05/12/25	3.17	6.04	243.6
08/11/25	4.53	5.93	236.1
10/30/25	2.03	6.67	246.9

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-3**	
INSTALLATION DATE:	10/25/22	WELL DEPTH (FT BTOC):	41.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	626.67	WELL TYPE: II DIAMETER (IN): 2

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
11/07/22	0.026	0.033	<0.002	0.014	0.029	0.076	0.009
05/04/23	0.011	**0.695**	0.003	0.171	0.114	0.983	0.173
02/05/24	<0.005	0.092	0.178	0.068	0.299	0.637	<0.025
04/08/24	0.022	**0.688**	<0.010	0.191	0.071	0.950	0.139
07/01/24	0.013	**0.976**	1.62	0.625	3.36	6.581	0.145
10/28/24	<0.010	0.336	<0.020	0.387	1.34	2.063	0.184
02/12/25	NOT SAMPLED - FREE PRODUCT (0.38 FT)						
05/12/25	<0.001	<0.001	0.003	<0.001	0.039	0.042	<0.005
08/11/25	<0.100	**0.862**	0.533	2.31	12.7	16.405	<0.500
10/30/25	<0.020	**0.587**	0.557	1.49	7.81	10.444	0.381
GRP SSTLs:	**1.92**	**0.48**	**96**	**67.2**	**175**	**-**	**1.92**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	**-**	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-4**	
INSTALLATION DATE:	10/25/22	WELL DEPTH (FT BTOC):	43.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	626.48	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
11/07/22	24.63	601.85	-	9.0
05/04/23	21.44	605.33	0.39	-
02/05/24	12.50	613.98	-	14.5
04/08/24	26.08	600.40	-	8.0
07/01/24	31.55	595.39	0.61	43.0
10/28/24	32.31	594.29	0.16	-
12/12/25	31.39	595.09	-	5.5
05/12/25	8.34	618.14	-	16.5
08/11/25	24.45	602.03	-	9.0
10/30/25	25.21	601.27	-	8.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
11/07/22	-	-	-
05/04/23	FREE PRODUCT (0.39 FT)		
02/05/24	1.56	7.15	107.60
04/08/24	4.14	7.19	-76.6
07/01/24	FREE PRODUCT (0.61 FT)		
10/28/24	FREE PRODUCT (0.16 FT)		
12/12/25	1.34	6.28	-93.0
05/12/25	2.14	6.13	238.7
08/11/25	3.97	6.03	222.4
10/30/25	2.11	6.54	252.1

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-4**	
INSTALLATION DATE:	10/25/22	WELL DEPTH (FT BTOC):	43.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	626.48	WELL TYPE: II DIAMETER (IN): 2

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
11/07/22	0.477	0.342	0.023	<0.010	1.37	1.735	0.304
05/04/23	NOT SAMPLED - FREE PRODUCT (0.39 FT)						
02/05/24	<0.500	**2.01**	<1.00	38.90	28.90	69.81	**24.80**
04/08/24	0.644	**3.06**	0.420	1.70	1.57	6.75	1.25
07/01/24	NOT SAMPLED - FREE PRODUCT (0.61 FT)						
10/28/24	NOT SAMPLED - FREE PRODUCT (0.16 FT)						
02/12/25	0.603	**0.782**	0.024	1.26	0.506	2.572	0.448
05/12/25	<0.001	0.002	<0.002	0.012	0.007	0.021	0.013
08/11/25	0.260	**3.82**	0.103	1.84	0.848	6.611	0.670
10/30/25	0.128	**1.01**	<0.020	0.577	0.149	1.736	0.243
GRP SSTLs:	**1.92**	**0.48**	**96**	**67.2**	**175**	**-**	**1.92**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	**-**	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-5**	
INSTALLATION DATE:	4/25/23	WELL DEPTH (FT BTOC):	38.5	SCREEN LENGTH (FT):	20	CASING ELEV (FT ABOVE MSL):	625.26	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
05/04/23	20.83	604.43	-	8.5
02/05/24	19.35	605.91	-	9.0
04/08/24	24.74	600.52	-	6.5
07/01/24	26.75	598.51	-	5.5
10/28/24	28.47	596.79	-	5.0
02/12/25	29.19	596.07	-	4.5
05/12/25	9.94	615.32	-	13.5
08/11/25	23.13	602.13	-	7.5
10/30/25	23.82	601.44	-	7.0

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/04/23	-	-	-
02/05/24	2.96	7.34	166.7
04/08/24	14.37	7.52	-76.4
07/01/24	11.26	7.49	-66.7
10/28/24	9.38	6.76	187.4
02/12/25	1.89	6.91	-21.5
05/12/25	1.73	6.12	243.6
08/11/25	7.43	5.73	244.8
10/30/25	1.85	6.50	249.7

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-5**	
INSTALLATION DATE:	4/25/23	WELL DEPTH (FT BTOC):	38.5	SCREEN LENGTH (FT):	20	CASING ELEV (FT ABOVE MSL):	625.26	WELL TYPE: II DIAMETER (IN): 2

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
05/04/23	0.021	0.022	<0.002	0.005	0.017	0.044	0.011
02/05/24	0.051	<0.005	<0.010	<0.005	<0.005	BDL	<0.025
04/08/24	0.092	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
07/01/24	0.104	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/28/24	0.059	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
02/12/25	0.044	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
05/12/25	0.039	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
08/11/25	0.015	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/30/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**1.57**	**0.393**	**78.6**	**55**	**175**		**1.57**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	-	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-6**	
INSTALLATION DATE:	4/25/23	WELL DEPTH (FT BTOC):	37.5	SCREEN LENGTH (FT):	20	CASING ELEV (FT ABOVE MSL):	627.34	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
05/04/23	22.31	605.03	-	7.5
02/05/24	15.10	612.24	-	11.0
04/08/24	26.85	600.49	-	5.0
07/01/24	31.39	595.95	-	3.0
10/28/24	33.15	594.19	-	2.0
02/12/25	31.95	595.39	-	2.5
05/12/25	9.16	618.18	-	13.5
08/11/25	23.91	603.43	-	6.5
10/30/25	25.12	602.22	-	6.0

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/04/23	-	-	-
02/05/24	2.00	7.40	165.4
04/08/24	12.64	6.90	-7.5
07/01/24	10.22	6.98	-9.3
10/28/24	8.92	6.77	190.8
02/12/25	1.64	7.20	-30.1
05/12/25	1.32	6.09	233.1
08/11/25	3.15	5.86	239.8
10/30/25	2.02	6.53	260.2

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-6**	
INSTALLATION DATE:	4/25/23	WELL DEPTH (FT BTOC):	37.5	SCREEN LENGTH (FT):	20	CASING ELEV (FT ABOVE MSL):	627.34	WELL TYPE: II DIAMETER (IN): 2

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
05/04/23	<0.001	<0.001	<0.002	0.001	0.002	0.003	<0.005
02/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
04/08/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
07/01/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	0.006
10/28/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
02/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
05/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
08/11/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/30/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**1.37**	**0.342**	**68.4**	**47.9**	**175**		**1.37**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	-	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-7**	
INSTALLATION DATE:	4/25/23	WELL DEPTH (FT BTOC):	35.0	SCREEN LENGTH (FT):	20	CASING ELEV (FT ABOVE MSL):	626.75	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
05/04/23	21.52	605.23	-	1.5
02/05/24	14.52	612.23	-	10.0
04/08/24	25.97	600.78	-	4.5
07/01/24	30.24	596.51	-	2.5
10/28/24	32.30	594.45	-	-
02/12/25	31.20	595.55	-	2.0
05/12/25	8.31	618.44	-	13.0
08/11/25	24.02	602.73	-	5.5
10/30/25	25.49	601.26	-	4.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/04/23	-	-	-
02/05/24	2.45	7.61	149.4
04/08/24	7.48	7.14	-5.8
07/01/24	6.47	7.20	-6.4
10/28/24	-	-	-
02/12/25	3.32	7.01	-27.5
05/12/25	1.57	6.21	240.8
08/11/25	3.48	5.83	237.4
10/30/25	2.23	6.47	258.6

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-7**	
INSTALLATION DATE:	4/25/23	WELL DEPTH (FT BTOC):	35.0	SCREEN LENGTH (FT):	20	CASING ELEV (FT ABOVE MSL):	626.75	WELL TYPE: II DIAMETER (IN): 2

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
05/04/23	<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
04/25/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
07/01/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/28/24	NOT SAMPLED						
02/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
05/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
08/11/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/30/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**1.23**	**0.307**	**61.5**	**43**	**175**		**1.23**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	-	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-8**		
INSTALLATION DATE:	4/26/23	WELL DEPTH (FT BTOC):	45.0	SCREEN LENGTH (FT):	20	CASING ELEV (FT ABOVE MSL):	627.15	WELL TYPE: DIAMETER (IN):	II 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
05/04/23	22.29	604.86	-	11.0
02/05/24	14.21	612.94	-	15.0
04/08/24	26.90	600.25	-	8.0
07/01/24	30.73	596.42	-	7.0
10/28/24	32.63	594.52	-	6.0
02/12/25	31.31	595.84	-	6.5
05/12/25	10.21	616.94	-	16.5
08/11/25	24.88	602.27	-	9.5
10/30/25	26.23	600.92	-	9.0

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/04/23	-	-	-
02/05/24	3.26	6.70	134.3
04/08/24	8.04	6.64	-19.3
07/01/24	8.25	6.81	-18.8
10/28/24	10.76	5.09	273.9
02/12/25	4.15	5.56	64.9
05/12/25	1.94	6.28	233.3
08/11/25	3.30	6.10	251.2
10/30/25	2.06	6.41	268.7

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-8**	
INSTALLATION DATE:	4/26/23	WELL DEPTH (FT BTOC):	45.0	SCREEN LENGTH (FT):	20	CASING ELEV (FT ABOVE MSL):	627.15	WELL TYPE: II DIAMETER (IN): 2

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
05/04/23	<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
04/08/24	0.001	0.002	0.010	0.002	0.005	0.019	<0.005
07/01/24	0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/28/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
02/12/25	<0.001	<0.001	0.002	0.002	0.016	0.020	<0.005
05/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
08/11/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/30/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**1.51**	**0.378**	**75.7**	**53**	**175**		**1.51**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	-	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-9**	
INSTALLATION DATE:	1/17/24	WELL DEPTH (FT BTOC):	35.0	SCREEN LENGTH (FT):	25	CASING ELEV (FT ABOVE MSL):	628.37	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	12.35	616.02	-	11.0
04/08/24	21.02	607.35	-	6.5
07/01/24	23.16	605.21	-	5.5
10/28/24	23.12	605.25	-	5.5
02/12/25	28.31	600.06	-	3.0
05/12/25	9.67	618.70	-	12.0
08/11/25	22.90	605.47	-	6.0
10/30/25	24.01	604.36	-	5.5

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
02/05/24	2.66	7.25	167.5
04/08/24	34.80	7.62	-143.7
07/01/24	29.86	7.44	-89.6
10/28/24	6.42	6.56	199.2
02/12/25	3.59	6.86	-104.1
05/12/25	1.06	6.17	251.7
08/11/25	4.17	6.08	261.9
10/30/25	2.11	6.61	254.3

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-9**	
INSTALLATION DATE:	1/17/24	WELL DEPTH (FT BTOC):	35.0	SCREEN LENGTH (FT):	25	CASING ELEV (FT ABOVE MSL):	628.37	WELL TYPE: II DIAMETER (IN): 2

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
02/05/24	<0.001	0.001	<0.002	0.001	0.002	0.004	<0.005
04/08/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
07/01/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/28/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
02/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
05/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
08/11/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/30/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**0.347**	**0.0866**	**17.3**	**12.1**	**173**		**0.347**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	-	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-10**		
INSTALLATION DATE:	1/17/24	WELL DEPTH (FT BTOC):	45.0	SCREEN LENGTH (FT):	25	CASING ELEV (FT ABOVE MSL):	625.69	WELL TYPE: DIAMETER (IN):	II 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	17.30	608.39	-	13.5
04/08/24	26.31	599.38	-	9.0
07/01/24	30.66	595.03	-	7.0
10/28/24	33.08	592.61	-	5.5
02/12/25	31.54	594.15	-	6.5
05/12/25	11.59	614.10	-	16.0
08/11/25	24.48	601.21	-	10.0
10/30/25	26.11	599.58	-	9.0

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
02/05/24	2.25	7.43	154.1
04/08/24	10.23	6.73	-14.7
07/01/24	10.14	7.12	-12.7
10/28/24	6.29	6.14	210.0
02/12/25	4.31	5.69	72.1
05/12/25	1.14	6.33	249.0
08/11/25	4.48	5.84	254.3
10/30/25	2.20	6.58	249.5

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**MW-10**	
INSTALLATION DATE:	1/17/24	WELL DEPTH (FT BTOC):	45.0	SCREEN LENGTH (FT):	25	CASING ELEV (FT ABOVE MSL):	625.69	WELL TYPE: II DIAMETER (IN): 2

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
02/05/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
04/08/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
07/01/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/28/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
02/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
05/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
08/11/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/30/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**1.23**	**0.307**	**61.5**	**43**	**175**		**1.23**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	-	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**VW-1**		
INSTALLATION DATE:	4/25/23	WELL DEPTH (FT BTOC):	55.0	SCREEN LENGTH (FT):	5	CASING ELEV (FT ABOVE MSL):	626.88	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
05/04/23	23.70	603.18	-	15.0
02/05/24	21.09	605.79	-	16.5
04/08/24	24.38	602.50	-	14.5
07/01/24	25.99	600.89	-	14.0
10/28/24	27.87	599.01	-	13.0
02/12/25	29.76	597.12	-	12.0
05/12/25	14.39	612.49	-	19.5
08/11/25	23.13	603.75	-	15.5
10/30/25	27.74	599.14	-	13.0

INTRINSIC GROUNDWATER DATA SUMMARY

SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/04/23	-	-	-
02/05/24	2.75	7.41	106.2
04/08/24	10.63	8.05	27.1
07/01/24	8.02	7.96	13.4
10/28/24	5.30	6.95	172.6
02/12/25	3.35	7.02	-51.5
05/12/25	0.97	6.41	258.6
08/11/25	4.00	5.98	228.6
10/30/25	2.17	6.49	238.0

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	WELL ID:	**VW-1**	
INSTALLATION DATE:	4/25/23	WELL DEPTH (FT BTOC):	55.0	SCREEN LENGTH (FT):	5	CASING ELEV (FT ABOVE MSL):	626.88	WELL TYPE: III DIAMETER (IN): 2

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
05/04/23	0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
02/05/24	0.003	0.002	<0.002	<0.001	<0.001	0.002	0.005
04/08/24	<0.010	<0.010	<0.020	<0.010	0.020	0.020	<0.050
07/01/24	0.005	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/28/24	0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
02/12/25	0.003	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
05/12/25	0.005	0.001	<0.002	<0.001	<0.001	0.001	<0.005
08/11/25	0.003	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/30/25	0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	**1.92**	**0.48**	**96**	**67.2**	**175**	**-**	**1.92**
Inhalation SSTLs:	**39600**	**36.5**	**526**	**169**	**175**	**-**	**31**
Stream SSTLs:	-	-	-	-	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Greystone Chevron			UST NUMBER:	22-08-01	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)

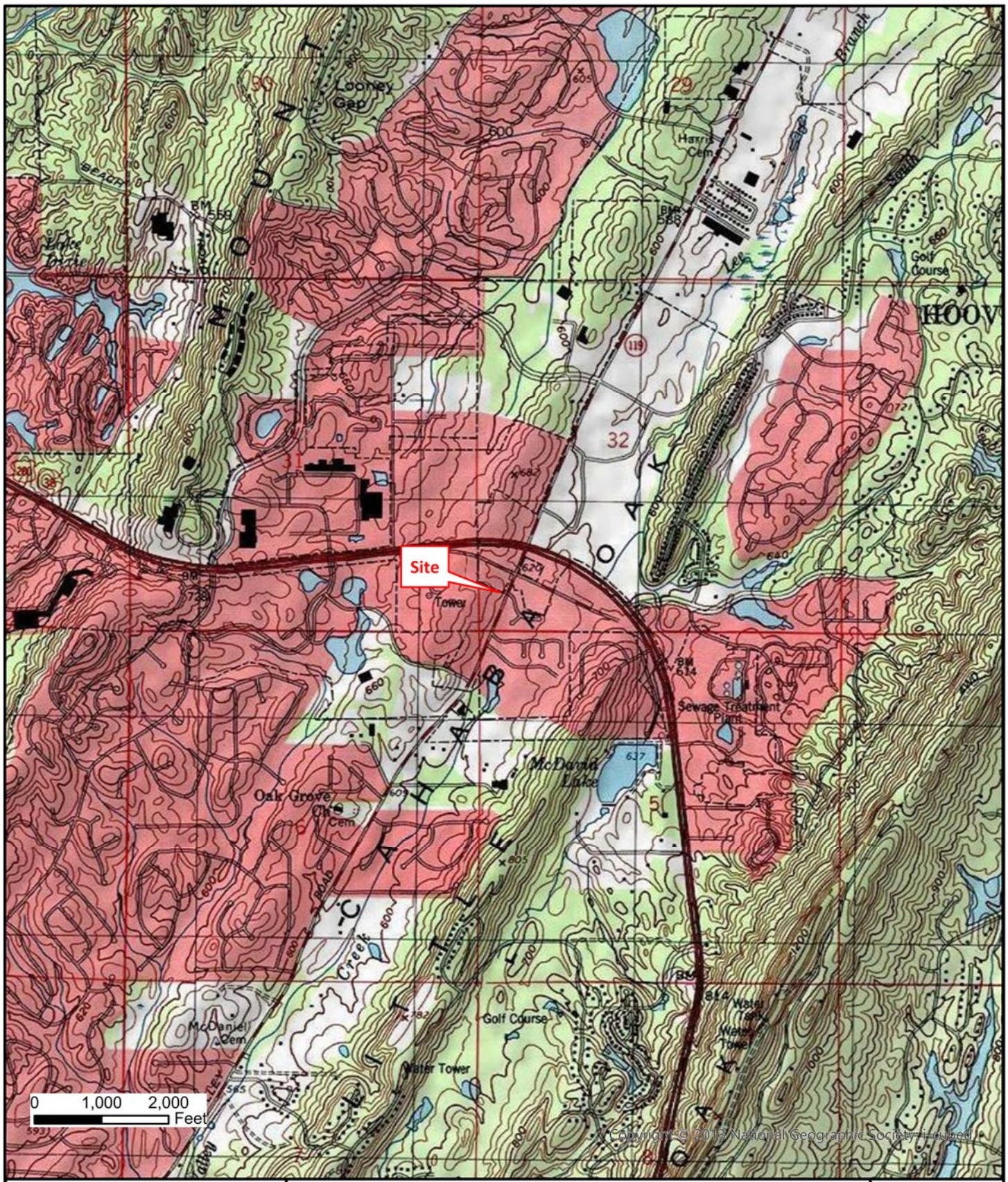
GROUNDWATER ANALYTICAL SUMMARY (mg/L)

SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
11/07/22	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
05/04/23	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
01/17/24	<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
04/08/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
07/01/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/28/24	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
02/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
05/12/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
08/11/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
10/30/25	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005

THREE NOTCH GROUP

FIGURES

APPENDIX B



THREE NOTCH GROUP

Site Location USGS Topographic Map

Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama

N

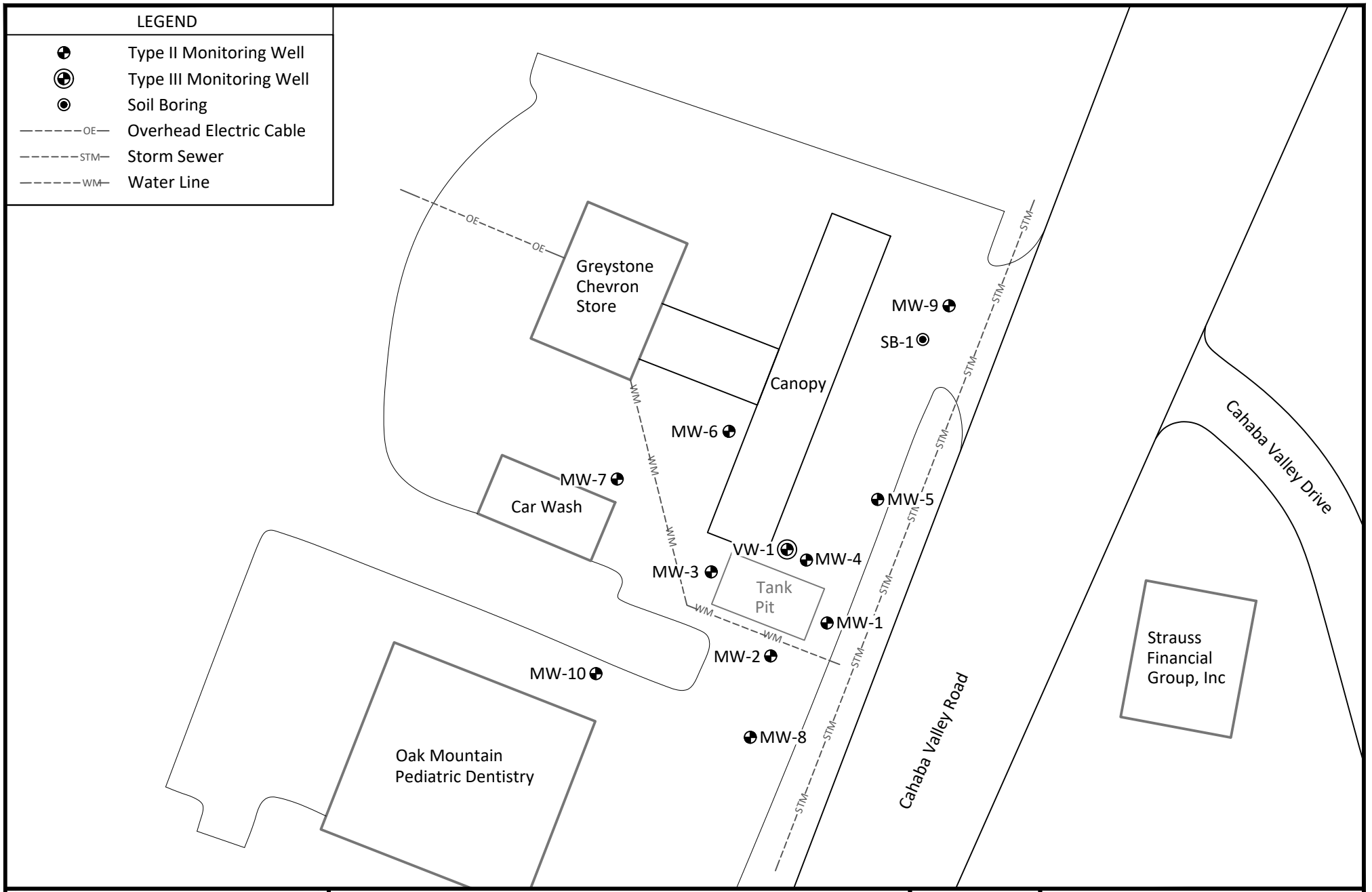
THREE NOTCH GROUP

Land Use Map

Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama

Approximate Scale in Feet

0 200 400



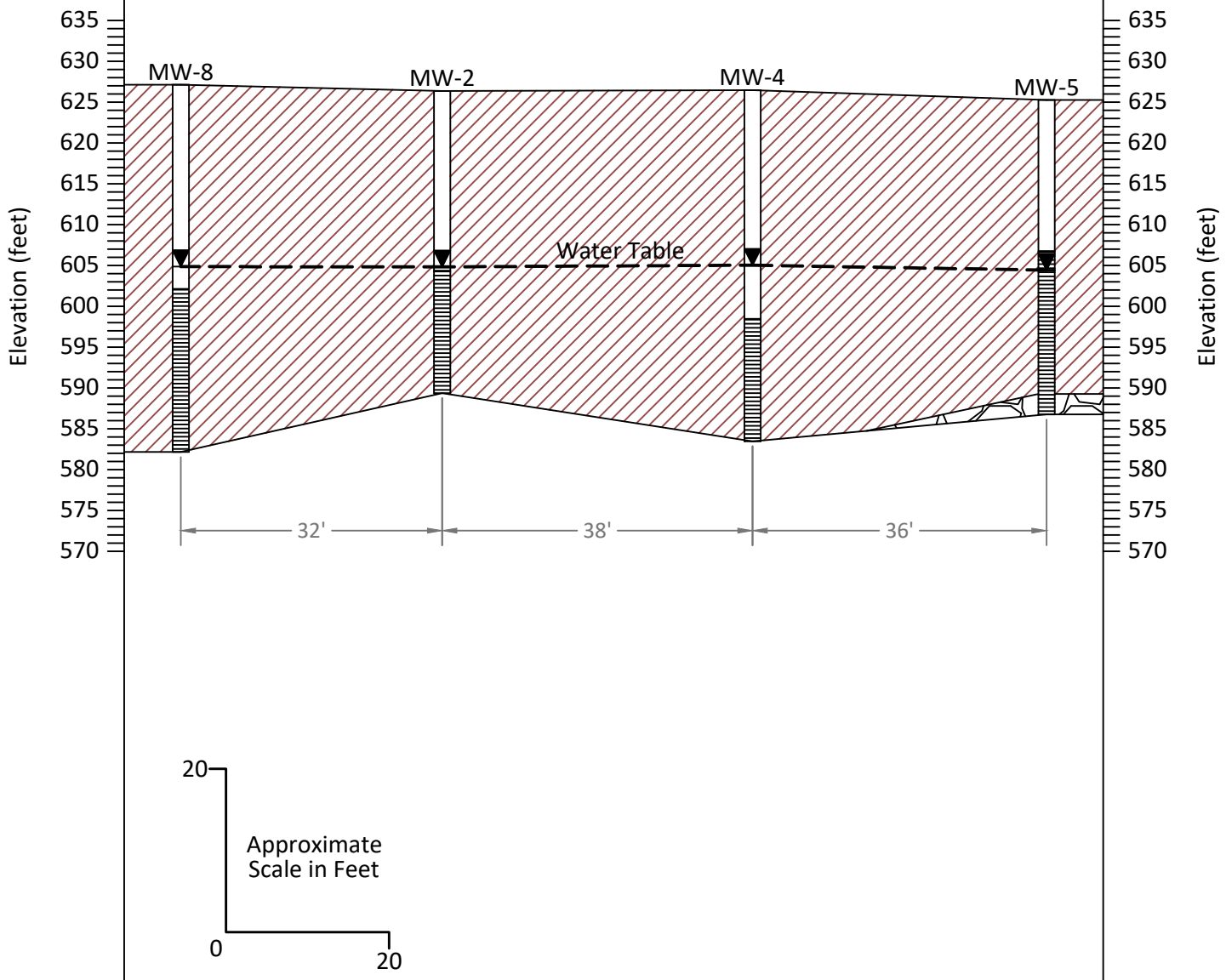
THREE NOTCH GROUP

Site Map with Utility and Well Locations

Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama

Approximate Scale in Feet

0 50 100



THREE NOTCH GROUP

Lithologic Cross-Section

Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama

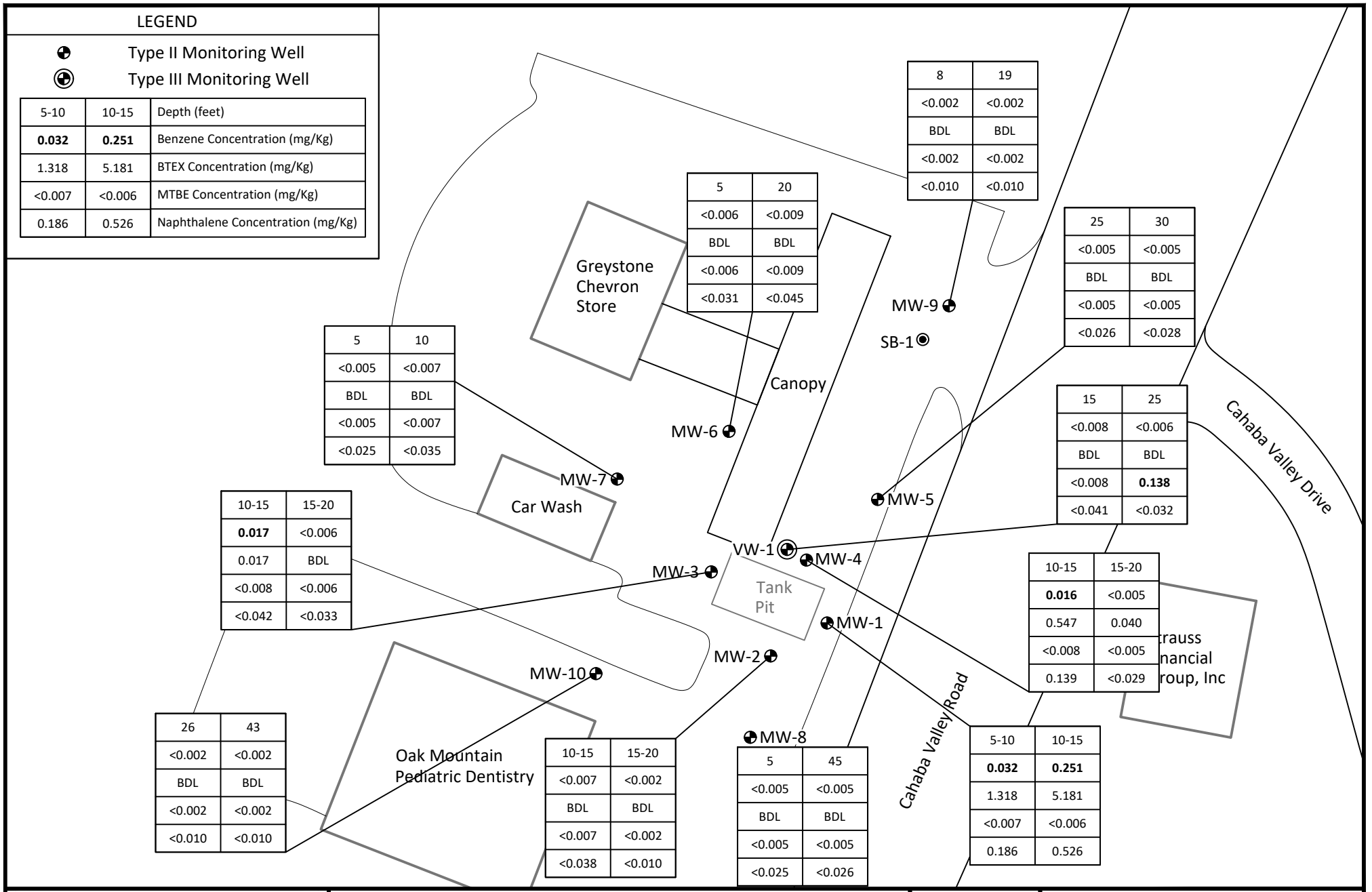
Legend

Clay

Rock

Screened Interval

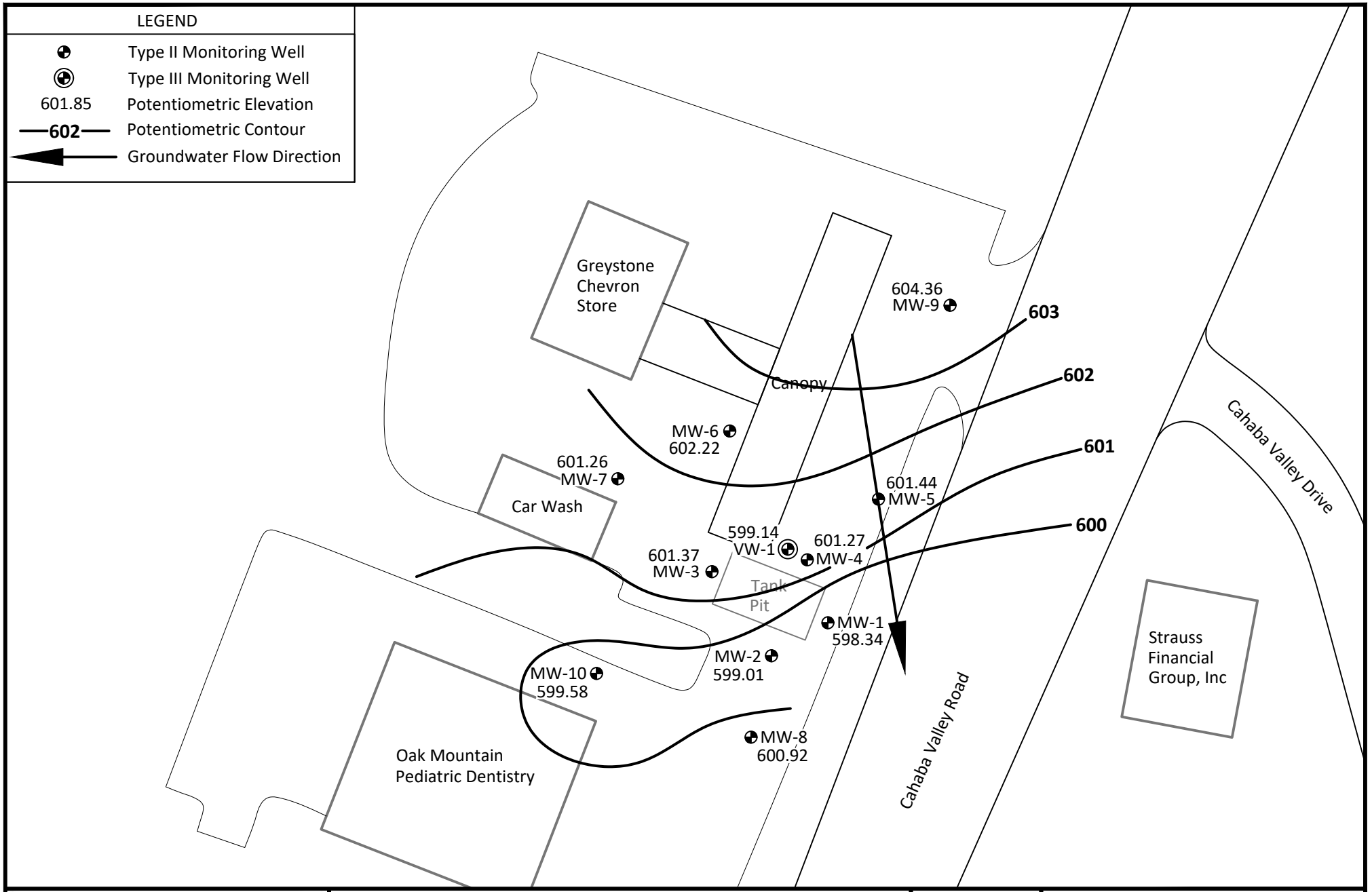
Groundwater Level

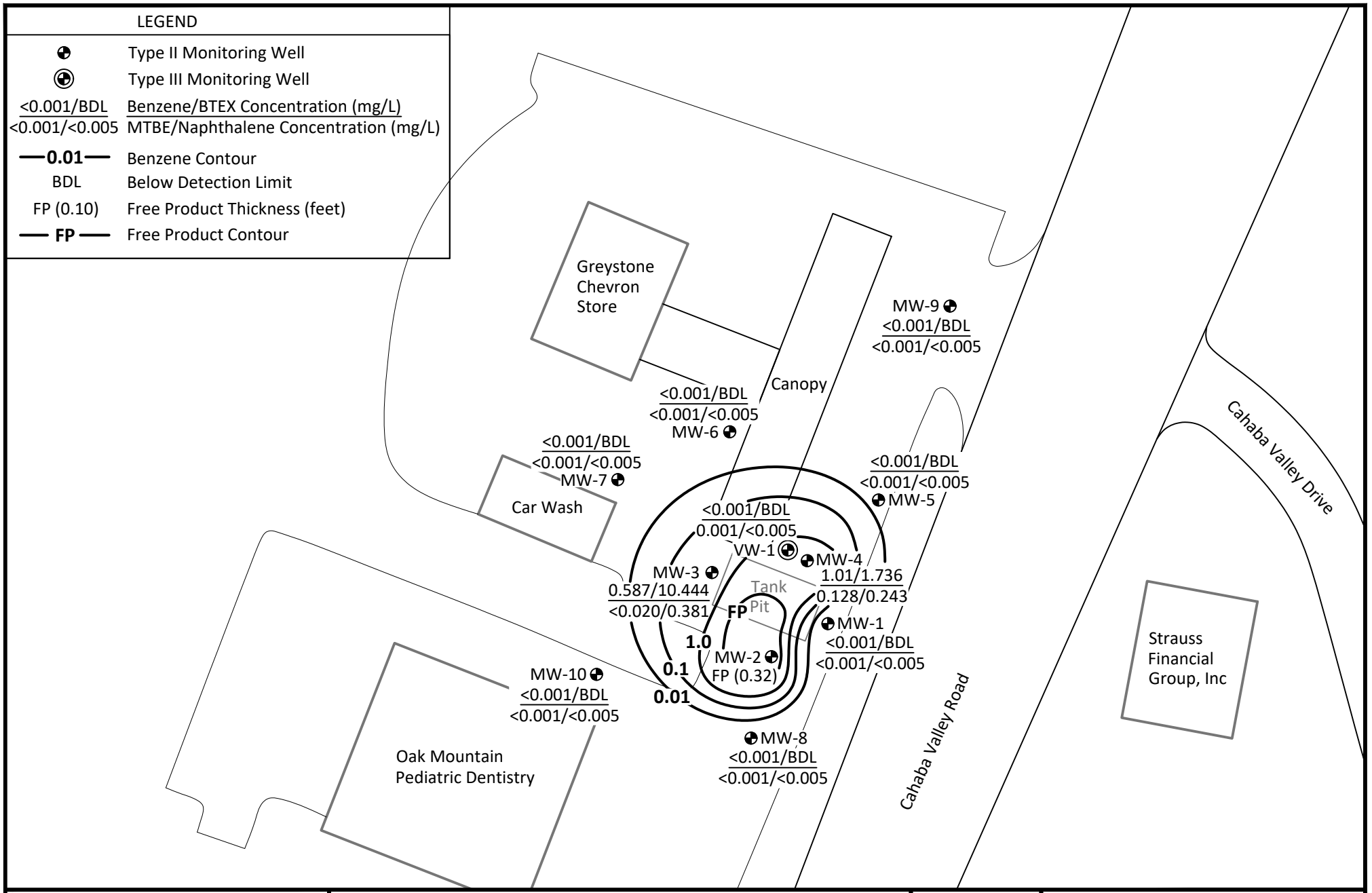


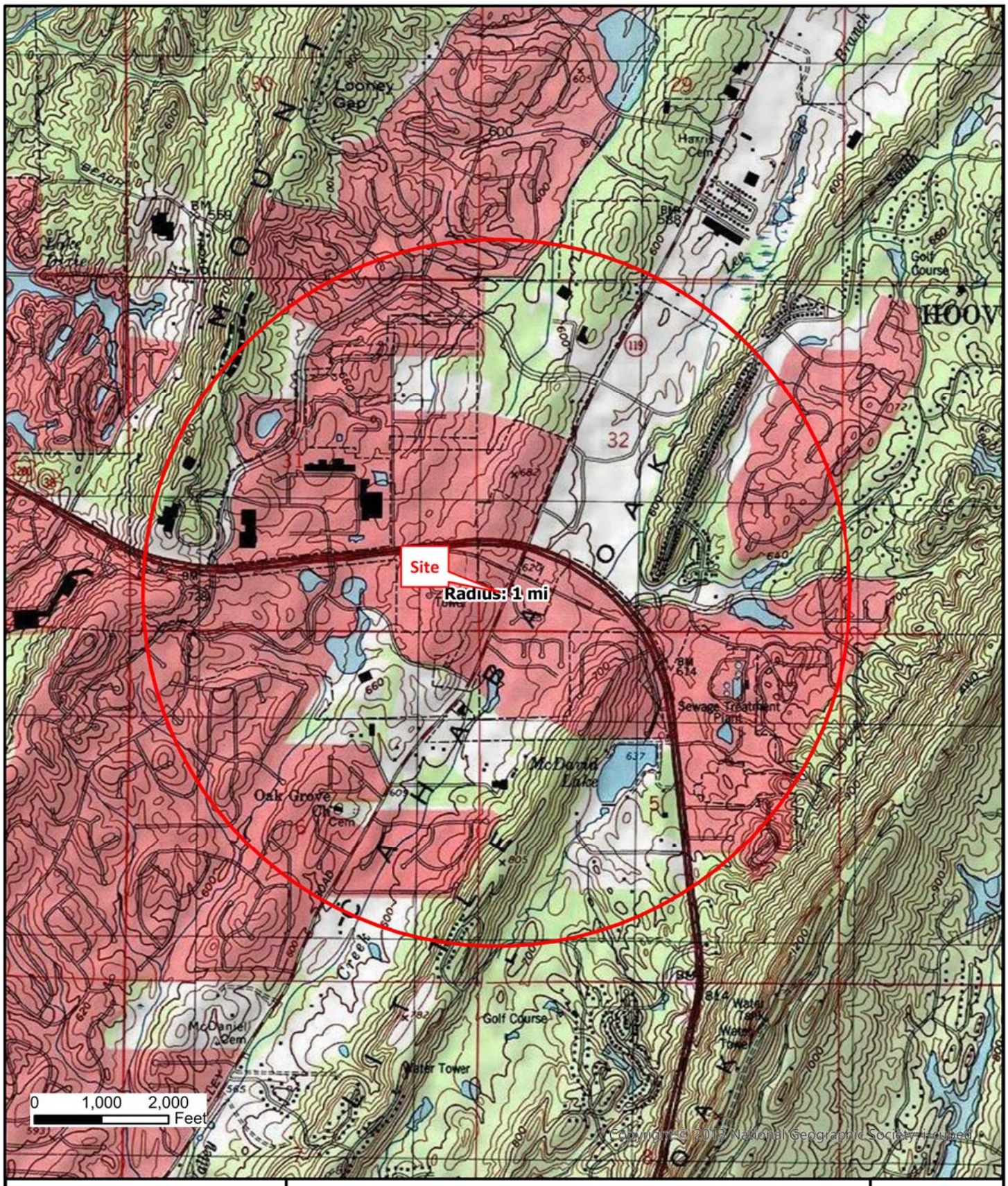
THREE NOTCH GROUP

Soil Analytical Map

Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama


LEGEND
Type II Monitoring Well
Type III Monitoring Well
601.85 Potentiometric Elevation
602 Potentiometric Contour
Groundwater Flow Direction
Greystone Chevron Store
604.36 MW-9
603
602
Canopy
MW-6 602.22
601.26 MW-7
Car Wash
601
601.44 MW-5
599.14 VW-1
601.27 MW-4
600
601.37 MW-3
Tank Pit
MW-1 598.34
MW-2 599.01
MW-10 599.58
MW-8 600.92
Oak Mountain Pediatric Dentistry
Cahaba Valley Road
Cahaba Valley Drive
Strauss Financial Group, Inc
THREE NOTCH GROUP
Potentiometric Surface Map
October 30, 2025
Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama
Approximate Scale in Feet
0
50
100


LEGEND
Type II Monitoring Well
Type III Monitoring Well
<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
FP (0.10) Free Product Thickness (feet)
FP Free Product Contour
Greystone Chevron Store
Canopy
MW-9
<0.001/BDL
<0.001/<0.005
<0.001/BDL
<0.001/<0.005
MW-6
<0.001/BDL
<0.001/<0.005
MW-7
Car Wash
<0.001/BDL
<0.001/<0.005
MW-5
<0.001/BDL
0.001/<0.005
VW-1
MW-4
1.01/1.736
MW-3
0.587/10.444
<0.020/0.381
Tank Pit
FP
0.128/0.243
MW-1
<0.001/BDL
<0.001/<0.005
1.0
0.1
0.01
MW-2
FP (0.32)
MW-10
<0.001/BDL
<0.001/<0.005
Oak Mountain Pediatric Dentistry
MW-8
<0.001/BDL
<0.001/<0.005
Cahaba Valley Road
Cahaba Valley Drive
Strauss Financial Group, Inc
THREE NOTCH GROUP
Groundwater Analytical and Benzene Contour Map
October 30, 2025
Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama
Approximate Scale in Feet
0
50
100

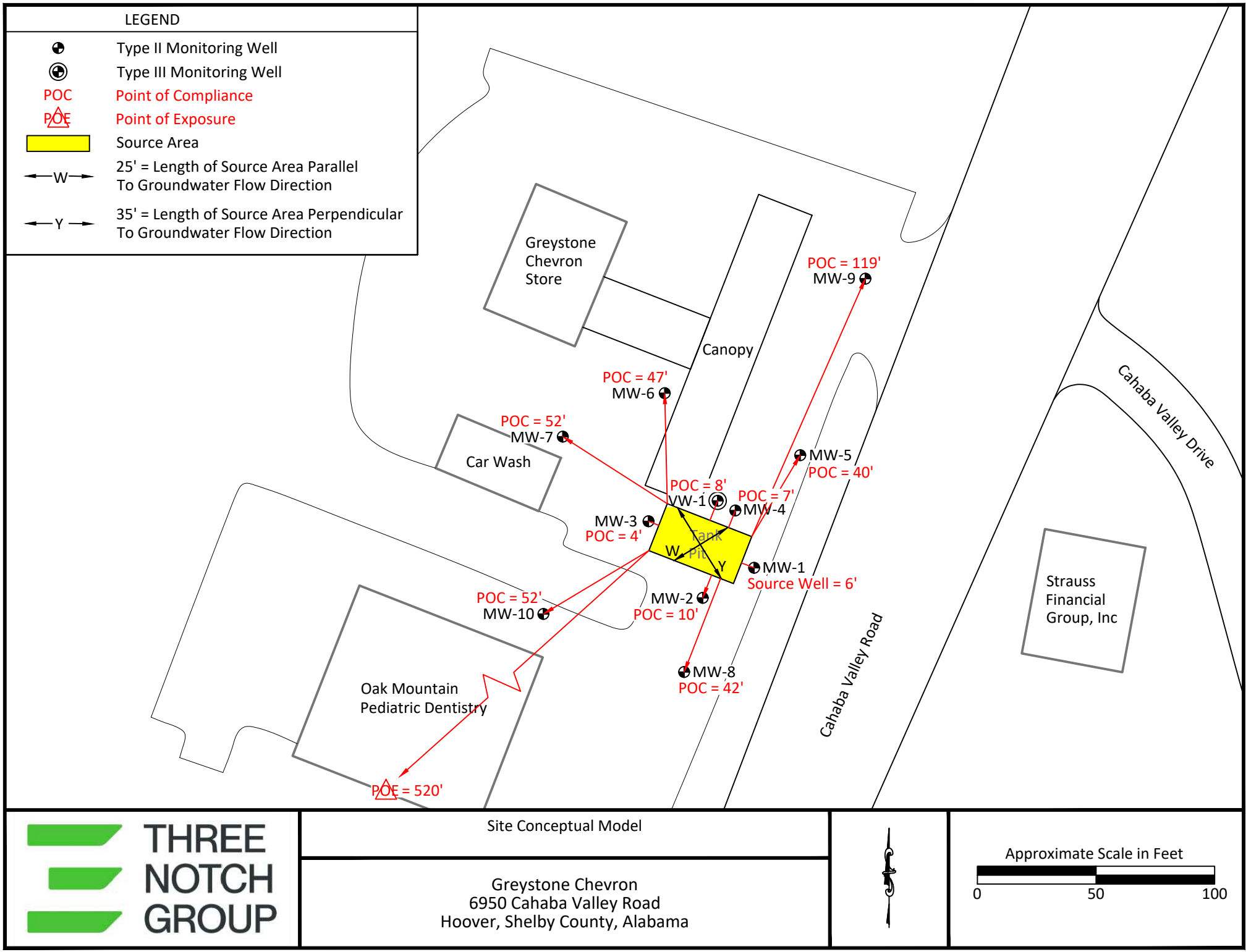


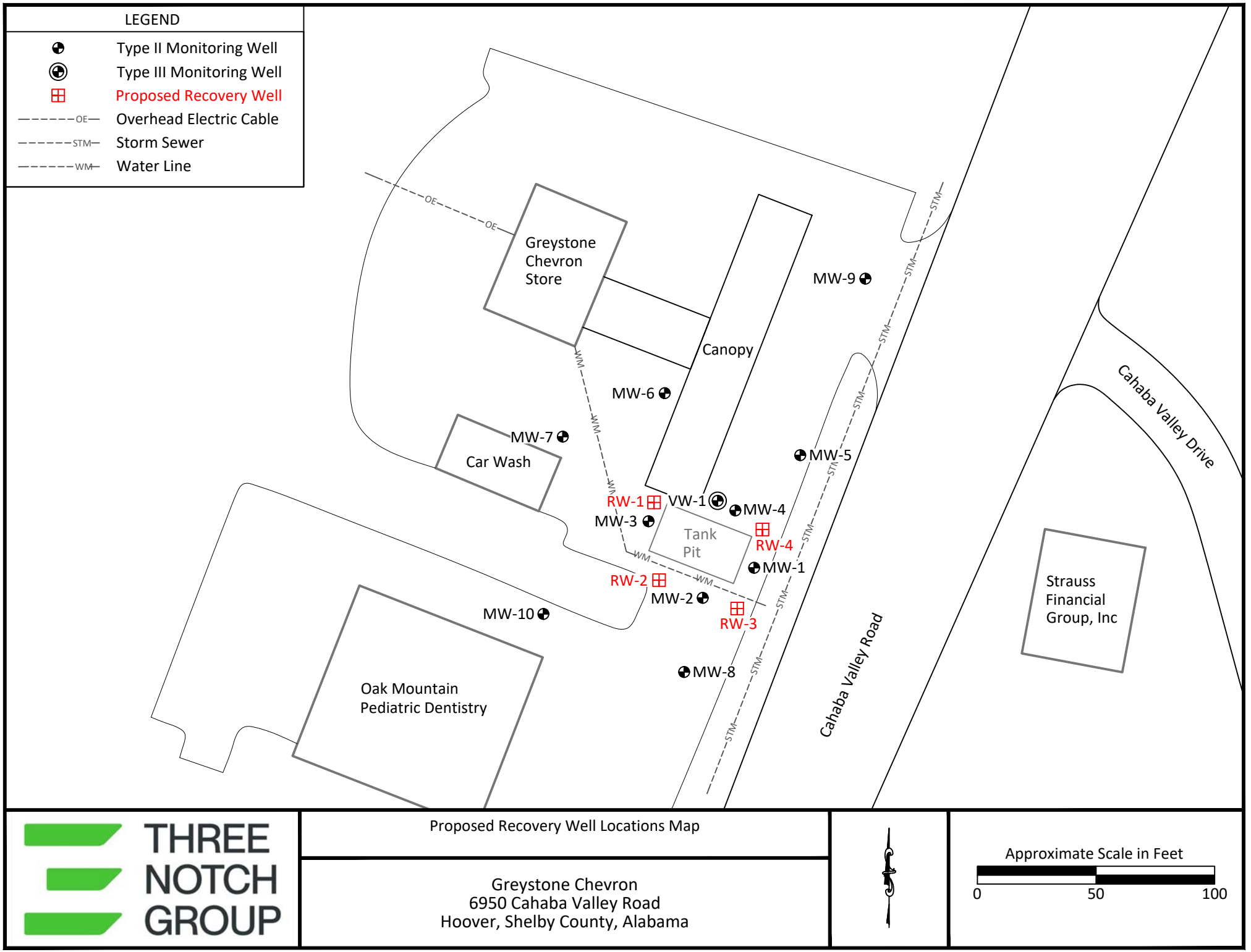
THREE NOTCH GROUP

Water Well Inventory Map

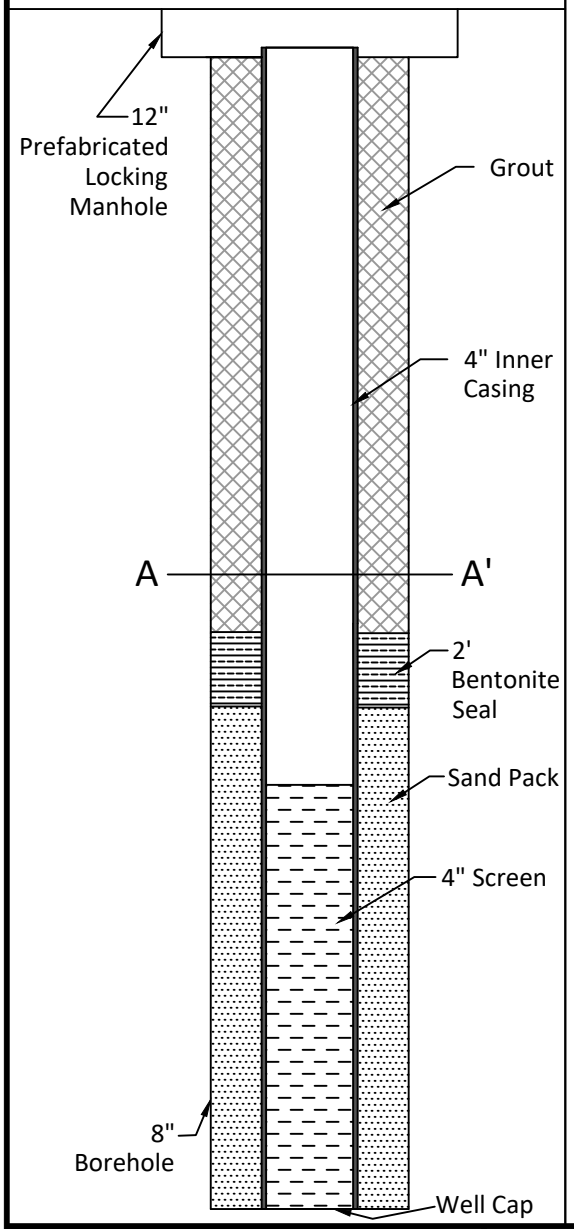
Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama

N

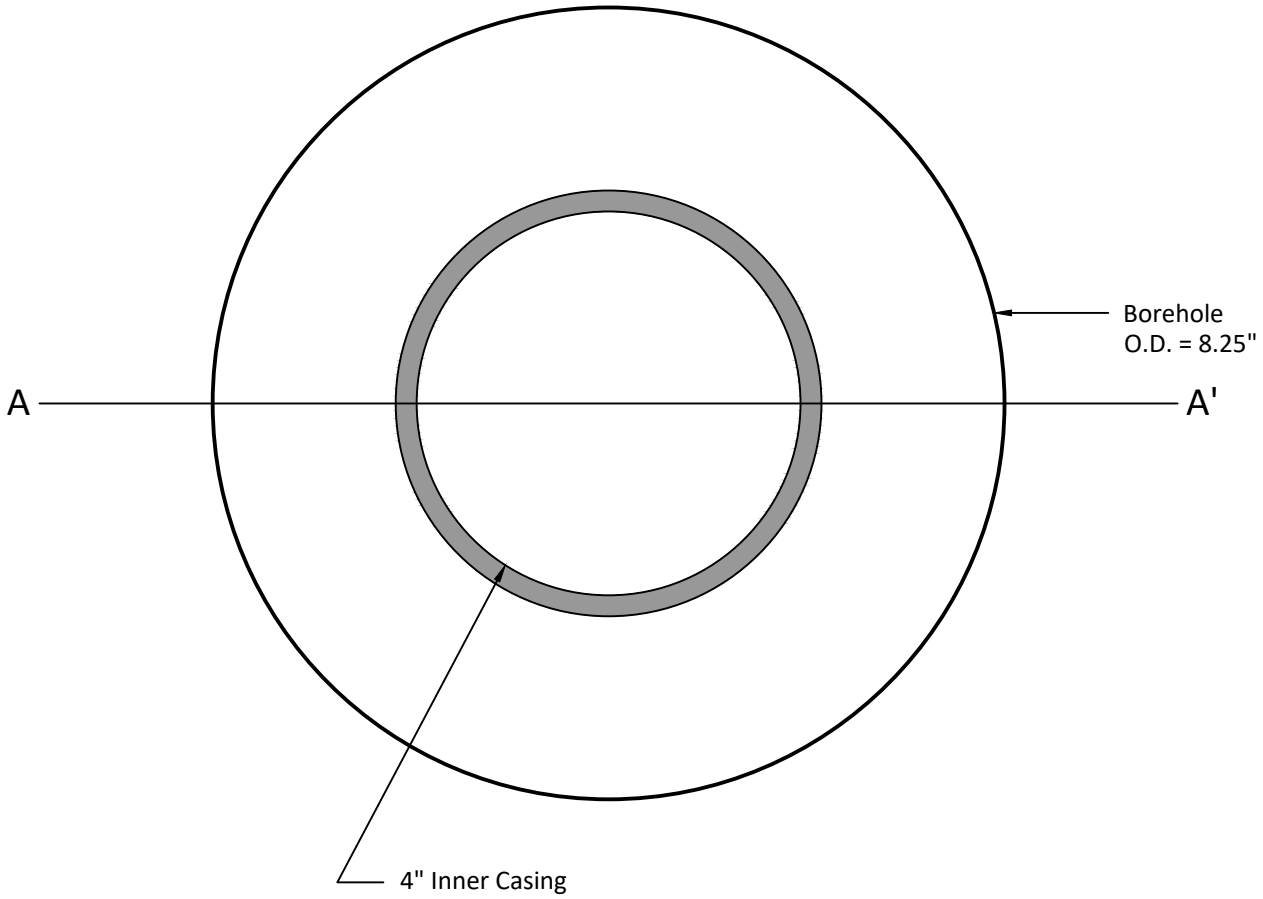

LEGEND
Type II Monitoring Well
Type III Monitoring Well
POC
Point of Compliance
POE
Point of Exposure
Source Area
W
25' = Length of Source Area Parallel
To Groundwater Flow Direction
Y
35' = Length of Source Area Perpendicular
To Groundwater Flow Direction
Greystone
Chevron
Store
Canopy
Car Wash
Oak Mountain
Pediatric Dentistry
Strauss
Financial
Group, Inc
Cahaba Valley Drive
Cahaba Valley Road
POC = 119'
MW-9
POC = 47'
MW-6
POC = 52'
MW-7
MW-5
POC = 40'
POC = 8'
VW-1
POC = 7'
MW-4
MW-3
POC = 4'
Tank
W
Y
MW-1
Source Well = 6'
POC = 52'
MW-10
MW-2
POC = 10'
MW-8
POC = 42'
POE = 520'
THREE
NOTCH
GROUP
Site Conceptual Model
Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama
Approximate Scale in Feet
0
50
100


LEGEND
Type II Monitoring Well
Type III Monitoring Well
Proposed Recovery Well
Overhead Electric Cable
Storm Sewer
Water Line
OE
STM
WM
Greystone Chevron Store
Canopy
MW-9
MW-6
MW-7
Car Wash
MW-5
RW-1
VW-1
MW-4
MW-3
Tank Pit
RW-4
MW-1
RW-2
MW-2
RW-3
MW-10
MW-8
Oak Mountain Pediatric Dentistry
Cahaba Valley Road
Cahaba Valley Drive
Strauss Financial Group, Inc
THREE NOTCH GROUP
Proposed Recovery Well Locations Map
Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama
Approximate Scale in Feet
0
50
100

Typical Recovery Well Diagram
Scale: 1" = 8"



Cross-Section
Scale: 1" = 2"



THREE NOTCH GROUP

Recovery Well Construction And Cross-Section Detail

Greystone Chevron
6950 Cahaba Valley Road
Hoover, Shelby County, Alabama

Approximate Scale in Inches

0 2 4

THREE NOTCH GROUP

ARBCA APPROVED

SITE SPECIFIC TARGET LEVELS

APPENDIX C

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.00E+00	6.85E+01	5.70E-01	3.42E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.00E+00	6.85E+01	2.42E+02	6.85E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.00E+00	6.85E+01	2.44E+02	4.79E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.00E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.00E+00	6.85E+01	5.81E-01	1.37E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.00E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.00E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.00E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.00E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.00E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.00E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.00E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.00E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.00E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.00E+00	6.85E+01	3.90E+01	1.37E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.00E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.00E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.00E+00	6.85E+01	5.24E+02	3.42E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.00E+00	6.85E+01	1.34E+04	1.37E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.00E+00	6.85E+01	6.12E+01	3.42E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.00E+00	6.85E+01	3.11E+02	6.85E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.00E+00	6.85E+01	2.99E+02	1.03E+00	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.00E+00	6.85E+01	2.03E+04	1.37E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC.
Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.00E+00	6.85E+01	5.70E-01	3.42E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.00E+00	6.85E+01	2.42E+02	6.85E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.00E+00	6.85E+01	2.44E+02	4.79E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.00E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.00E+00	6.85E+01	5.81E-01	1.37E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.00E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.00E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.00E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.00E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.00E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.00E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.00E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.00E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.00E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.00E+00	6.85E+01	3.90E+01	1.37E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.00E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.00E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.00E+00	6.85E+01	5.24E+02	3.42E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.00E+00	6.85E+01	1.34E+04	1.37E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.00E+00	6.85E+01	6.12E+01	3.42E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.00E+00	6.85E+01	3.11E+02	6.85E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.00E+00	6.85E+01	2.99E+02	1.03E+00	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.00E+00	6.85E+01	2.03E+04	1.37E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC. Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.00E+00	6.85E+01	5.70E-01	3.42E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.00E+00	6.85E+01	2.42E+02	6.85E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.00E+00	6.85E+01	2.44E+02	4.79E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.00E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.00E+00	6.85E+01	5.81E-01	1.37E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.00E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.00E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.00E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.00E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.00E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.00E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.00E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.00E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.00E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.00E+00	6.85E+01	3.90E+01	1.37E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.00E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.00E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.00E+00	6.85E+01	5.24E+02	3.42E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.00E+00	6.85E+01	1.34E+04	1.37E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.00E+00	6.85E+01	6.12E+01	3.42E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.00E+00	6.85E+01	3.11E+02	6.85E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.00E+00	6.85E+01	2.99E+02	1.03E+00	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.00E+00	6.85E+01	2.03E+04	1.37E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC.
Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.00E+00	6.85E+01	5.70E-01	3.42E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.00E+00	6.85E+01	2.42E+02	6.85E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.00E+00	6.85E+01	2.44E+02	4.79E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.00E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.00E+00	6.85E+01	5.81E-01	1.37E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.00E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.00E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.00E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.00E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.00E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.00E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.00E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.00E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.00E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.00E+00	6.85E+01	3.90E+01	1.37E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.00E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.00E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.00E+00	6.85E+01	5.24E+02	3.42E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.00E+00	6.85E+01	1.34E+04	1.37E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.00E+00	6.85E+01	6.12E+01	3.42E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.00E+00	6.85E+01	3.11E+02	6.85E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.00E+00	6.85E+01	2.99E+02	1.03E+00	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.00E+00	6.85E+01	2.03E+04	1.37E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC.
Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.13E+00	6.85E+01	5.70E-01	3.03E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.13E+00	6.85E+01	2.42E+02	6.05E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.13E+00	6.85E+01	2.44E+02	4.24E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.13E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.13E+00	6.85E+01	5.81E-01	1.21E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.13E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.13E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.13E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.13E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.13E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.13E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.13E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.13E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.13E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.13E+00	6.85E+01	3.90E+01	1.21E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.13E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.13E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.13E+00	6.85E+01	5.24E+02	3.03E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.13E+00	6.85E+01	1.34E+04	1.21E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.13E+00	6.85E+01	6.12E+01	3.03E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.13E+00	6.85E+01	3.11E+02	6.05E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.13E+00	6.85E+01	2.99E+02	9.08E-01	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.13E+00	6.85E+01	2.03E+04	1.21E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC.
Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.25E+00	6.85E+01	5.70E-01	2.75E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.25E+00	6.85E+01	2.42E+02	5.49E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.25E+00	6.85E+01	2.44E+02	3.84E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.25E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.25E+00	6.85E+01	5.81E-01	1.10E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.25E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.25E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.25E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.25E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.25E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.25E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.25E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.25E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.25E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.25E+00	6.85E+01	3.90E+01	1.10E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.25E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.25E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.25E+00	6.85E+01	5.24E+02	2.75E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.25E+00	6.85E+01	1.34E+04	1.10E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.25E+00	6.85E+01	6.12E+01	2.75E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.25E+00	6.85E+01	3.11E+02	5.49E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.25E+00	6.85E+01	2.99E+02	8.24E-01	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.25E+00	6.85E+01	2.03E+04	1.10E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC.
Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.35E+00	6.85E+01	5.70E-01	2.53E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.35E+00	6.85E+01	2.42E+02	5.07E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.35E+00	6.85E+01	2.44E+02	3.55E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.35E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.35E+00	6.85E+01	5.81E-01	1.01E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.35E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.35E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.35E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.35E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.35E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.35E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.35E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.35E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.35E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.35E+00	6.85E+01	3.90E+01	1.01E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.35E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.35E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.35E+00	6.85E+01	5.24E+02	2.53E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.35E+00	6.85E+01	1.34E+04	1.01E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.35E+00	6.85E+01	6.12E+01	2.53E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.35E+00	6.85E+01	3.11E+02	5.07E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.35E+00	6.85E+01	2.99E+02	7.60E-01	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.35E+00	6.85E+01	2.03E+04	1.01E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC.
Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.16E+00	6.85E+01	5.70E-01	2.95E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.16E+00	6.85E+01	2.42E+02	5.90E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.16E+00	6.85E+01	2.44E+02	4.13E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.16E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.16E+00	6.85E+01	5.81E-01	1.18E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.16E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.16E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.16E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.16E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.16E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.16E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.16E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.16E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.16E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.16E+00	6.85E+01	3.90E+01	1.18E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.16E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.16E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.16E+00	6.85E+01	5.24E+02	2.95E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.16E+00	6.85E+01	1.34E+04	1.18E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.16E+00	6.85E+01	6.12E+01	2.95E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.16E+00	6.85E+01	3.11E+02	5.90E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.16E+00	6.85E+01	2.99E+02	8.85E-01	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.16E+00	6.85E+01	2.03E+04	1.18E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC. Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	4.14E+00	6.85E+01	5.70E-01	8.27E-02	3.42E-01
Toluene	1.00E+00	2.82E-01	1	4.14E+00	6.85E+01	2.42E+02	1.65E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	4.14E+00	6.85E+01	2.44E+02	1.16E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	4.14E+00	6.85E+01	4.51E+02 *	1.65E+02	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	4.14E+00	6.85E+01	5.81E-01	3.31E-01	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	4.14E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	4.14E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	4.14E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	4.14E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	4.14E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	4.14E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	4.14E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	4.14E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	4.14E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	4.14E+00	6.85E+01	3.90E+01	3.31E-01	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	4.14E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	4.14E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	4.14E+00	6.85E+01	5.24E+02	8.27E-01	3.42E+00
Barium	2.00E+00	1.02E-02	1	4.14E+00	6.85E+01	1.34E+04	3.31E+01	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	4.14E+00	6.85E+01	6.12E+01	8.27E-02	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	4.14E+00	6.85E+01	3.11E+02	1.65E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	4.14E+00	6.85E+01	2.99E+02	2.48E-01	1.03E+00
Zinc	2.00E+00	6.76E-03	1	4.14E+00	6.85E+01	2.03E+04	3.31E+01	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC.
Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.35E+00	6.85E+01	5.70E-01	2.53E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.35E+00	6.85E+01	2.42E+02	5.07E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.35E+00	6.85E+01	2.44E+02	3.55E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.35E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.35E+00	6.85E+01	5.81E-01	1.01E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.35E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.35E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.35E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.35E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.35E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.35E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.35E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.35E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.35E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.35E+00	6.85E+01	3.90E+01	1.01E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.35E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.35E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.35E+00	6.85E+01	5.24E+02	2.53E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.35E+00	6.85E+01	1.34E+04	1.01E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.35E+00	6.85E+01	6.12E+01	2.53E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.35E+00	6.85E+01	3.11E+02	5.07E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.35E+00	6.85E+01	2.99E+02	7.60E-01	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.35E+00	6.85E+01	2.03E+04	1.01E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC.
Soil concentrations are presented on a dry weight basis.

NA: Not available

GROUNDWATER RESOURCE PROTECTION - WITHOUT BIODEGRADATION

CHEMICALS OF CONCERN	Target Groundwater Conc.at POE	Dry Leaching Factor to Groundwater (LFsw)	User Specified Unsaturated Zone DAF	Saturated Zone DAF		Allowable Soil Conc. Protective of GW at the POE	Allowable GW Conc.	
				for POC	for POE		at a POC Protective of a POE	at the Source Protective of a POE
	[mg/L]	[mg/L]/[mg/kg]	[--]	[--]	[--]	[mg/kg]	[mg/L]	[mg/L]
ORGANICS								
Benzene	5.00E-03	6.01E-01	1	1.00E+00	6.85E+01	5.70E-01	3.42E-01	3.42E-01
Toluene	1.00E+00	2.82E-01	1	1.00E+00	6.85E+01	2.42E+02	6.85E+01	6.85E+01
Ethylbenzene	7.00E-01	1.97E-01	1	1.00E+00	6.85E+01	2.44E+02	4.79E+01	4.79E+01
Xylenes (mixed)	1.00E+01	1.63E-01	1	1.00E+00	6.85E+01	4.51E+02 *	1.75E+02 #	1.75E+02 #
Methyl-tert-butyl-ether (MTBE)*	2.00E-02	2.36E+00	1	1.00E+00	6.85E+01	5.81E-01	1.37E+00	1.37E+00
Anthracene	4.34E-02	1.79E-03	1	1.00E+00	6.85E+01	1.02E+01 *	4.34E-02 #	4.34E-02 #
Benzo(a)anthracene	1.17E-03	1.17E-04	1	1.00E+00	6.85E+01	3.37E+01 *	9.40E-03 #	9.40E-03 #
Benzo(a)pyrene	2.00E-04	4.33E-05	1	1.00E+00	6.85E+01	1.57E+01 *	1.62E-03 #	1.62E-03 #
Benzo(b)fluoranthene	1.17E-03	3.41E-05	1	1.00E+00	6.85E+01	1.85E+01 *	1.50E-03 #	1.50E-03 #
Benzo(g,h,i)perylene	7.00E-04	2.66E-05	1	1.00E+00	6.85E+01	1.11E+01 *	7.00E-04 #	7.00E-04 #
Benzo(k)fluoranthene	8.00E-04	3.41E-05	1	1.00E+00	6.85E+01	9.84E+00 *	8.00E-04 #	8.00E-04 #
Chrysene	1.60E-03	1.05E-04	1	1.00E+00	6.85E+01	6.37E+00 *	1.60E-03 #	1.60E-03 #
Fluoranthene	2.06E-01	8.55E-04	1	1.00E+00	6.85E+01	1.01E+02 *	2.06E-01 #	2.06E-01 #
Fluorene	1.46E+00	5.44E-03	1	1.00E+00	6.85E+01	1.53E+02 *	1.98E+00 #	1.98E+00 #
Naphthalene	2.00E-02	3.51E-02	1	1.00E+00	6.85E+01	3.90E+01	1.37E+00	1.37E+00
Phenanthrene	1.00E+00	2.97E-03	1	1.00E+00	6.85E+01	1.41E+02 *	1.00E+00 #	1.00E+00 #
Pyrene	1.35E-01	6.17E-04	1	1.00E+00	6.85E+01	9.18E+01 *	1.35E-01 #	1.35E-01 #
METALS								
Arsenic	5.00E-02	6.54E-03	1	1.00E+00	6.85E+01	5.24E+02	3.42E+00	3.42E+00
Barium	2.00E+00	1.02E-02	1	1.00E+00	6.85E+01	1.34E+04	1.37E+02	1.37E+02
Cadmium	5.00E-03	5.59E-03	1	1.00E+00	6.85E+01	6.12E+01	3.42E-01	3.42E-01
Chromium VI	1.00E-01	2.20E-02	1	1.00E+00	6.85E+01	3.11E+02	6.85E+00	6.85E+00
Lead	1.50E-02	3.44E-03	1	1.00E+00	6.85E+01	2.99E+02	1.03E+00	1.03E+00
Zinc	2.00E+00	6.76E-03	1	1.00E+00	6.85E+01	2.03E+04	1.37E+02	1.37E+02

*: Calculated concentrations exceeded saturated soil concentration and hence saturated soil concentrations are listed soil concentrations protective of groundwater.

#: Calculated concentrations exceeded pure component water solubility and hence water solubilities are listed as allowable groundwater concentrations at the POE and/or POC.
Soil concentrations are presented on a dry weight basis.

NA: Not available

THREE NOTCH GROUP

ADEM FORMS

APPENDIX D

UST RELEASE FACT SHEET

GENERAL INFORMATION:

SITE NAME: Greystone Chevron
ADDRESS: 6950 Cahaba Valley Road
Hoover, Shelby County, Alabama

FACILITY I.D. NO.: 21152-117-018549
INCIDENT NO.: UST22-08-01

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, { } Diesel, { } Waste Oil
{ } Kerosene, { } Other _____

Free product present in wells? {X} Yes { } No Maximum thickness measured: 0.95' MW-2 (9/24/25)

Maximum BTEX concentrations measured in soil: 5.181 mg/kg MW-1 10-15 ft-bgs

Maximum BTEX or PAH concentrations measured in groundwater: 69.81 mg/L in MW-4 (2/5/24)

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:	Greystone Chevron
SITE ADDRESS:	6950 Cahaba Valley Road
	Hoover, Shelby County, AL
FACILITY I.D. NO.:	21152-117-018549
UST INCIDENT NO.:	UST22-08-01
OWNER NAME:	Greystone Petro, LLC
OWNER ADDRESS:	7415 Gadsden Highway
	Trussville, AL 35173
NAME & ADDRESS OF PERSON COMPLETING THIS FORM:	Alecia Hamilton, Project Manager
	Three Notch Group, Inc
	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

January - March 2026 (CP-17)

Greystone Chevron

6950 Cahaba Valley Road

Hoover, Shelby County, AL

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/ Review
Alec Black, PG							X	
Michelle Grantham, PM	X		X					X
Alecia Hamilton, PM	X		X				X	X
Daniel Roe, ES							X	
Evan Morrison, Tech								
Ray Hollinghead, Drafter						X		
James Arnold, Drafter								
Karen Moore, Admin	X						X	
Patricia Horwath, Admin								X
Kim Ballard, Admin								
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

SVY=Site Survey

SLG=Slug Test

MEME=MEME Oversight

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.

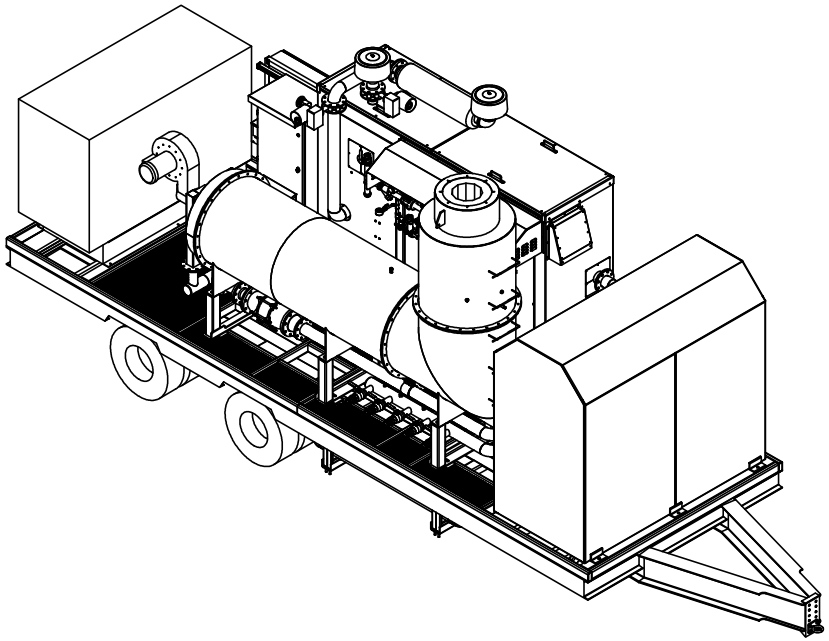
Unit will be fully tested prior to shipment. Control Panel will be UL698a stamped. Customer onsite training will be supplied for 2 days on a site in Alabama and initial training at the pdblowers Gainesville location. The vacuum system will be controlled by a variable frequency drive that will allow it 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.

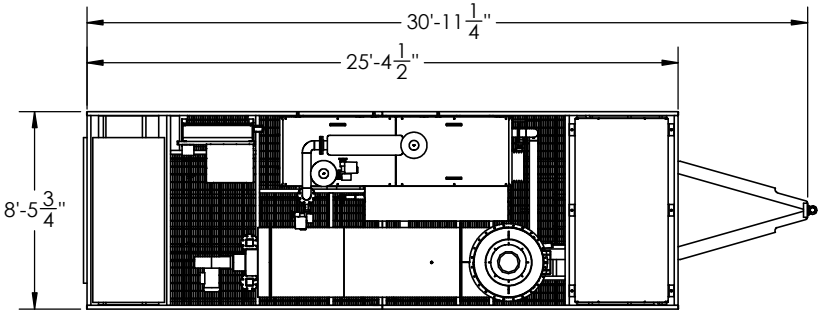
Deck mounted holding tank (approx 1600 gallons) for extented operation. The tank should be pumped to an exceptable weight before traveling on the road.

Thermal Oxidizer System

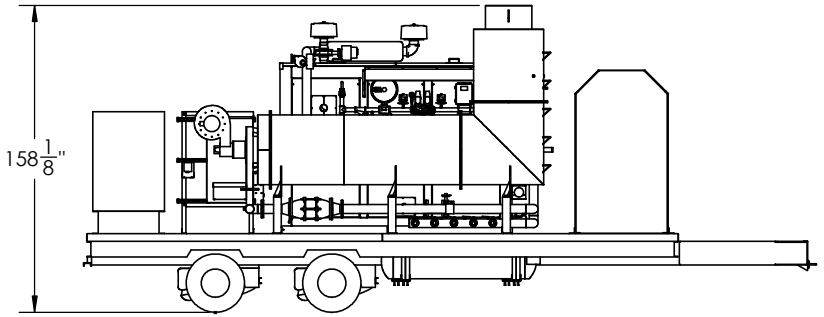
The thermal oxidizer will be designed to consume up to 7.5 MMBtu/hr of fuel and volatile vapors. The vessel will be constructed of 304 SS, 3/16” thick. Combustion air will be supplied by a turbo blower, 5HP with variable frequency drive. Volatile vapors will be introduced into the chamber via the vacuum 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

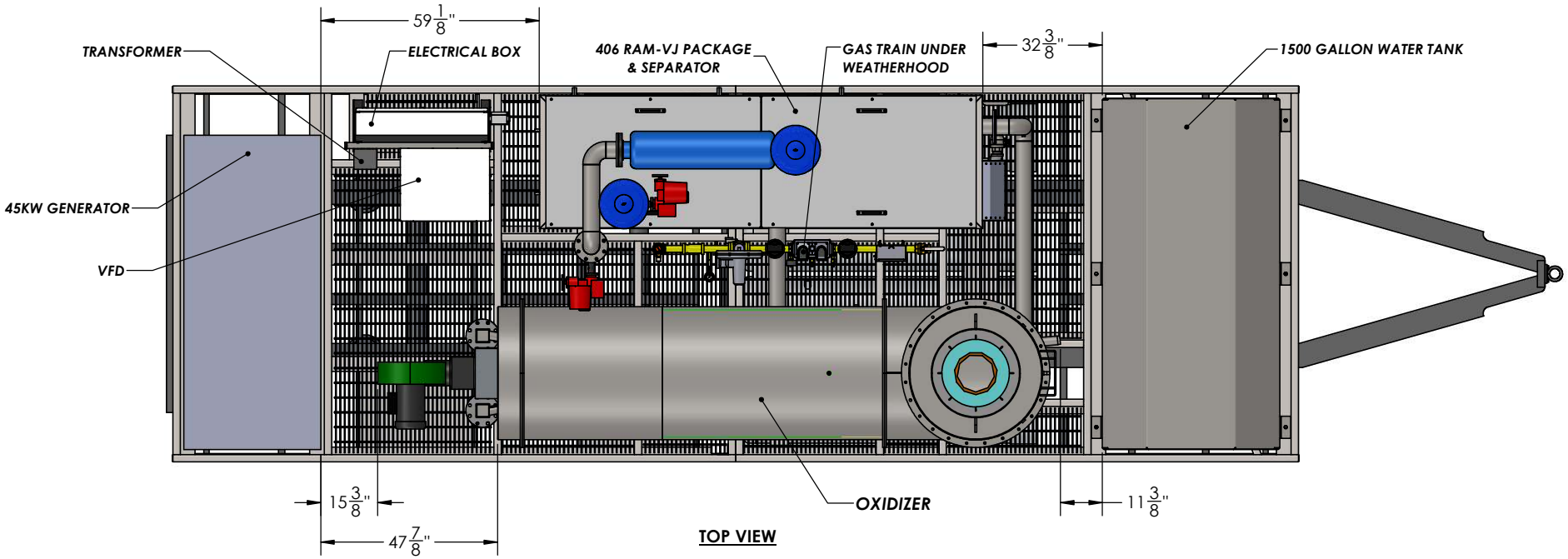
pdblowers inc
2280 Chicopee Mill Road SW • Gainesville, GA • 30504
800-536-9933

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

SIZE	DWG. NO.	REV
B	60097	

SCALE: 1:46 SHEET 1 OF 3

DWG. NO.
60097

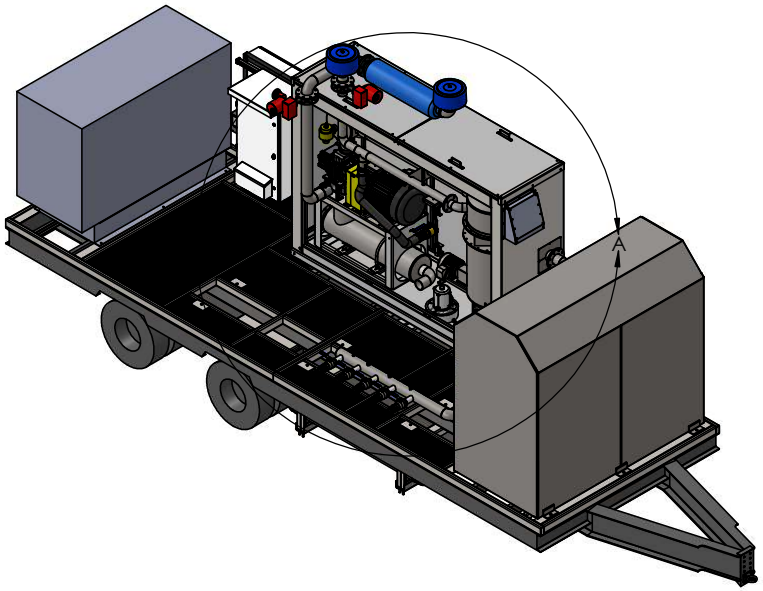


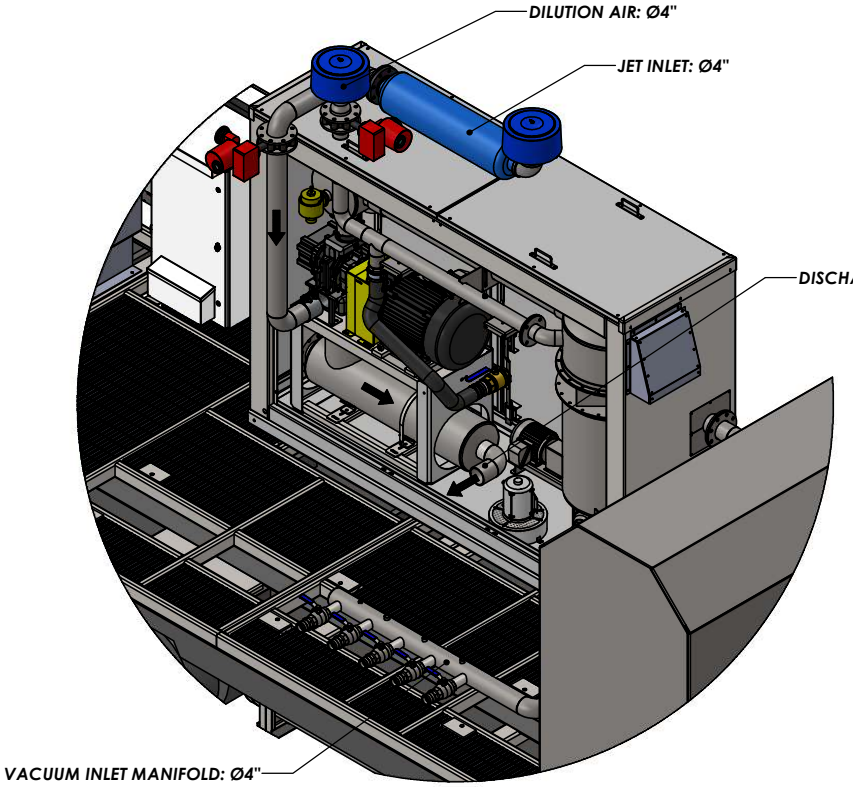
TOP VIEW

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
INTERPRET GEOMETRIC TOLERANCING PER:				
MATERIAL: SEE BOM				SIZE B · DWG. NO. 60097 · REV
THICKNESS:				SCALE: 1:28 · SHEET 2 OF 3
FINISH				
WEIGHT: 40877.72				

JOB NUMBER	PARENT P/N
403803	

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
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800-536-9933

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

SIZE	DWG. NO.	REV
B	60097	

SCALE: 1:50 SHEET 3 OF 3