41 Saxon Ave., Bay Shore

SUFFOLK COUNTY, NEW YORK

Periodic Review Report

NYSDEC Site Number: V00338-01

Prepared for:

The New York State Department of Environmental Conservation

Prepared by:

Dermody Consulting

32 Chichester Ave.

Center Moriches, NY

April 6, 2022

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Executive Summary

This Periodic Review Report is submitted as a component of the remedial program at 41 Saxon Ave., Bay Shore, New York (the "Site") under the New York State Voluntary Cleanup Program administered by the New York State Department of Environmental Conservation (NYSDEC).

An Interim Remedial Measures (IRMs) for the Site included the removal of contaminated soil and the remediation of a stormwater leaching pool. An air sparging/soil vapor extraction system (AS/SVE) system was then installed at the Site to remediate the soil and groundwater at the Site and to act as a sub-slab depressurization system (SSDS). Institutional and Engineering Controls (ICs/ECs) have been incorporated into the Site remedy to control exposure to remaining contamination during the on-going remediation.

The remedial system at the Site has significantly reduced the soil and groundwater contamination at the Site. The system continues to operate.

1.0 Site Overview

1.1 Introduction

This Periodic Review Report (PRR) is submitted as a component of the remedial program at 41 Saxon Ave., Bay Shore, New York (the "Site") under the New York State Voluntary Cleanup Program administered by the NYSDEC. The Site is being remediated in accordance with Voluntary Cleanup Agreement (VCA) Index No. D1-0010-00-09, Site # V00338-1.

An Interim Remedial Measures (IRM) action was taken at the Site. Following the IRM, a remedial system was installed at the Site to address residual contamination. A Site Management Plan (SMP) was prepared by Dermody Consulting on behalf of Saxon Avenue Enterprises, LLC and in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation. The SMP provided information for the implementation of the Institutional Controls (ICs) and Engineering Controls (ECs) that are required for the Site.

The Interim Remedial Measures (IRMs) for the Site consisted of the removal of contaminated soil and the remediation of a stormwater leaching pool. An air sparging/soil vapor extraction system (AS/SVE) was installed at the Site to remediate the soil and groundwater and to act as a sub-slab depressurization system (SSDS).

A Site Management Plan (SMP) was prepared that includes ECs that have been incorporated into the Site remedy to control exposure to remaining contamination during the use of the Site to provide protection of public health and the environment. The SMP also contains ICs that place restrictions on Site use and require operation, maintenance, monitoring, and reporting measures.

This PRR provides a description of steps undertaken to manage the remaining contamination at the Site including: (1) implementation and management of ECs and ICs; (2) Site monitoring, and; (3) operation and maintenance of the AS/SVE system. This PRR also provides certifications for the operation of the system and the EC/ICs.

1.2 Site Location and Description

The Site location and property boundaries are provided in Figure 1. The tax map number is 0500-343.00-01.00-093.002. The Site is bound by Saxon Avenue to the east, the Long Island Rail Road tracks to the north, residential apartments to the west, and a gasoline service station to the south. A 30,000-square-foot building is present on the Site. An asphalt parking area exists on the southern portion of the Site; a narrow swath of grass and trees exists to the west of the building; a grass, soil, and degraded asphalt area exists to the north of the building; and, an asphalt parking area and a grass area exist at the eastern portion of the Site. The Site building is currently subdivided and contains several tenants including a sports training facility [formerly Doggie U (dog training)], a church (which has expanded into an area formerly occupied by Century Tire), a storage area formerly used for kitchen cabinet storage, and a now-unoccupied former medical office.

1.3 Investigation and Remedial History

The Site is currently being remediated by AS/SVE. The system commenced operation on October 10, 2009.

Tetrachloroethylene was used at the Site by Staver Corp. The tetrachloroethylene was used in a degreaser machine that formerly existed in the north-central portion of the Site building (in the unit that was later used for kitchen cabinet storage). Soil sampling in the area beneath the concrete floor in the vicinity of the location of the former degreaser showed the presence of tetrachloroethylene and related volatile organic compounds (VOCs). In addition, a former wooden loading dock (also known as the scrap metal loading dock) was located adjacent and exterior to the north-central portion of the building and is the location where spent tetrachloroethylene degreaser sludge was disposed on the soil adjacent to the northeast corner of the former loading dock. Also, a previous soil sampling event showed that relatively minor concentrations of tetrachloroethylene and related VOCs were present in the soil to the west of the building in an area that formerly contained a concrete evaporation pond. Finally, the sediment in a subsurface stormwater leaching pool located within a concrete loading dock ramp location near the northeast corner of the building was sampled and was found to contain elevated concentrations of copper and chromium. The locations of the former degreaser, former wooden loading dock, former

evaporation pond, and stormwater leaching pool are shown in Figure 1.

Several investigations were performed to evaluate the nature and extent of soil, sediment, groundwater, and soil vapor contamination at the Site. The following summarizes the pertinent sample results and findings.

Subsurface investigations performed at the Site concluded that soil or sediment contamination was present at the Site in four areas: in the area of the former degreaser, in the area of the former loading dock, in the area to the west of the building where a former evaporation pool existed, and in the stormwater leaching pool at the base of the loading dock along the eastern wall of the building (see Figure 2 for the identified areas of soil and sediment contamination).

The former degreaser was used to clean metal parts using tetrachloroethylene. The tetrachloroethylene apparently leaked from the degreaser onto the concrete below and percolated through the concrete to the subsurface. The spent tetrachloroethylene that was removed from the degreaser was reported to have been dumped onto the soil on the north side of the building at the edge of the former loading dock and resulted in significant contamination of the soil. The soil in the area of the former evaporation pond was found to contain relatively minor concentrations of tetrachloroethylene and its degradation products. Finally, the stormwater leaching pool at the base of the loading dock on the east side of the building was found to contain elevated concentrations of copper and chromium.

Due to the presence of soil contamination consisting of tetrachloroethylene and its degradation products, a groundwater plume was identified at the Site that emanates from the area of the former loading dock and has migrated in a south-southeast direction to the southern property boundary. Figure 3 shows the locations of the 23 former and existing on-Site groundwater monitoring wells (which includes four wells at each of the three well cluster locations) and Figure 4 shows the 2 off-Site groundwater monitoring wells.

1.4 Remaining Contamination

Following the performance of IRMs for the loading dock area soil and leaching pool sediments, the remaining contamination at the Site consisted of relatively minor soil contamination in the area of the loading dock, soil contamination below the building's

concrete floor in the area of the former degreaser, groundwater contamination, and soil vapor generated from soil and groundwater contamination. To address the remaining contamination, an AS/SVE remediation system was installed at the Site.

2.0 Remedy Performance

2.1 Site ECs/ICs

Since remaining contaminated soil, soil vapor, and groundwater exist beneath the Site, ECs/ICs are required to protect human health and the environment.

2.2 Engineering Controls

Remaining soil contamination may still be present in three areas at the Site: the area of the former loading dock, the area of the former evaporation pond, and the area of the former degreaser. Exposure to remaining soil contamination in the former loading dock area is prevented by Site access control which consists of a locked six-foot-high chain-fencing that encloses the shed that contains the remedial system to the north of the building. A second locked chain-link fence (with a stockade fence on its east end) encloses the entire area to the north of the building. In addition, to further prevent potential contact with the soil in the area of the former loading dock, a plastic liner was installed above the area following the completion of the installation of the SVE leg in this area (L-5). The plastic liner was installed beneath a minimum of one foot of overlying clean sand/soil in a convex shape to prevent the accumulation of infiltrating precipitation on the liner. The area of the former evaporation pond contains exposed soil and contains a liner and one foot of overlying clean soil as well.

For the area of the former degreaser within the building, the SVE piping was installed by saw cutting and trenching beneath the concrete floor of the unit. Upon completion of the installation of the SVE legs, the trenches were backfilled and the concrete repaired. Therefore, the soil in this area is segregated from human contact by the concrete layer.

2.3 Institutional Controls

A series of ICs have been implemented to: (1) maintain and monitor EC systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) potentially limit the use and development of the Site to commercial and industrial uses during the period of remediation. These ICs are:

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;

- All ECs are operated and maintained as specified in the SMP;
- ECs on the Controlled Property are inspected at a frequency and in a manner defined in the SMP;
- Groundwater and system monitoring and other environmental or public health monitoring are performed;
- The locked fence in the area to the north of the Site building must be maintained until the remediation is deemed to be complete by the NYSDEC.

ICs identified in the Environmental Easement will not be discontinued without an amendment to, or extinguishment of, the Environmental Easement.

The Site has a series of ICs in the form of Site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may be used for restricted residential, commercial, or industrial purposes (as these uses are defined in 6 NYCRR Part 375) provided that the EC/ICs included in the SMP are employed;
- The property may not be used for a higher level of use, such as unrestricted residential use without amendment of the Environmental Easement, as approved by the NYSDEC;
- No activities will be performed on the property that will disturb remaining contaminated material;
- The use of the groundwater underlying the Site is prohibited unless the water is properly treated;

The potential for soil vapor intrusion is evaluated for future buildings developed at the Site, and any potential impacts that are identified will be monitored or mitigated;

- Vegetable gardens and farming on the property are prohibited;

- No excavation or other related activities will be performed in the areas of identified soil contamination or areas where subsurface AS/SVE components are present. In addition, no excavation or related activities will be performed at any location on the Site that may encounter contaminated groundwater.

Dermody Consulting has completed the NYSDEC IC/EC Controls Certification Form. The form states that the EC/ICs (as listed on the certification form) at the Site have not been changed and remain in effect. The completed form is provided in Appendix A.

3.0 MONITORING AND SAMPLING PLAN

3.1 General

The Monitoring Plan was implemented to evaluate the performance and effectiveness of the AS/SVE system to reduce or mitigate contamination at the Site.

3.2 Site-Wide Inspections

Site-wide inspections will be performed annually and, if necessary, following weather events that may affect ECs or monitoring devices. The inspection will assess the following:

- Compliance with all ICs, including Site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General Site conditions at the time of the inspection;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with the schedules included in the Operation and Maintenance Plan;
- Confirm that Site records are current.

A Site-wide investigation was performed on February 21, 2022. The AS/SVE system was operating properly and there were no changes to any of the components of the system or area where the AS and SVE piping is present.

3.3 Remedial System Monitoring

Monitoring of the AS/SVE system is being performed on a routine basis. Modification to the frequency or sampling requirements will require approval from the NYSDEC. A visual inspection of the complete system will be conducted during each monitoring event. Unscheduled inspections and/or sampling may take place when a suspected failure of any EC or IC has been reported or an emergency occurs that is deemed likely to affect the operation of the system.

The system monitoring will include:

- Obtaining monthly PID readings from each leg of the SVE system
- Obtaining vacuum monitoring point readings once per year (during the heating season).

Monitoring of the groundwater, soil, SVE vapor, and indoor air are being performed. Trends in contaminant levels are evaluated to determine if the remedy continues to be effective in achieving remedial goals. The monitoring programs are summarized below.

3.4 Site Monitoring

- **Groundwater**

Groundwater monitoring is being performed to assess the performance of the remedy. Table 1 summarizes the on-site chemical analytical results for the recent sampling round. The results were compared to the NYSDEC Class GA Water Quality Standards (the "Standards"). The previous groundwater sampling results are presented in Attachment B. At present, there are eight targeted parameter (tetrachloroethylene and its degradation products and 1,1,1-trichoroethane) instances where the concentrations exceeded the Standards. The exceedances include tetrachloroethylene at 23 ug/l at WC-1 (5-10') and at 56 ug/l at WC-3 (5-10'); cis-1,2-dichloroethylene at 19 ug/l at WC-2 (5-10') and at 47 ug/l at MW-4; vinyl chloride at 89 ug/l at WC-2 (5-10') and at 2.4 ug/l at WC-3 (5-10') and at 8.4 ug/l at MW-9, and; trichloroethylene at 14 ug/l at WC-3 (5-10').

As discussed in previous monitoring reports, methyl tertiary butyl ether (MTBE) has been detected in several on-site wells at elevated concentrations for several years. MTBE is a constituent of gasoline and there is no known source of MTBE on site. MTBE has long been detected at the site at intermediate and deep depths indicating that its source appears to be upgradient (due to plume descent) of the Site.

For the off-site downgradient wells, gasoline constituents were detected and appear to be attributable to the known release at the gasoline service station located adjacent and south (downgradient) of the site. No exceedances of the Standards were found for any of the targeted parameters.

Previous sampling (see Appendix B) of the Site groundwater has shown

concentrations of tetrachloroethylene in the groundwater at concentrations as high as 2,900 mcg/l [at WC-1(5-10")]. The remediation system has been effective in reducing the contamination from groundwater in the source area.

- **System Monitoring**

Monthly monitoring of the remedial system has been performed to assure that the system is operating properly. The results are provided in Table 2. The contaminant vapor readings are obtained with a photoionization detector (PID) from each leg of the SVE system and from pre- and post-treatment ports on the carbon drums. The PID readings provide an indication of the levels of soil contamination remaining in the soil. The results of the monitoring shows generally consistently low PID readings.

- **Sub-Slab Soil Vapor Intrusion Sampling**

Soil vapor intrusion sampling was performed in the Site building in 2021. The AS/SVE remedial system was shut down for approximately two weeks prior to sampling to determine if contaminant rebound was occurring.

The results of the sampling showed that there were no concentrations of any chemicals that were above the NYSDOH indoor air guidance values. However, elevated concentrations of primarily tetrachloroethylene and trichloroethylene were detected at sub-slab sampling locations SS-3 and SS-4. Based on these findings, the AS/SVE system was should and is continuing to operate.

An additional round of sub-slab and indoor air sampling is being performed in March, 2022 to determine the current concentrations of VOCs in the sub-slab vapors and the indoor air. The results of that investigation will be submitted to NYSDEC as an addendum to this report.

Monthly monitoring of the remedial system has been performed to assure that the system is operating properly. The results are provided in Table 2. The contaminant vapor readings were obtained with a photoionization detector (PID) from each leg of the SVE system and from pre- and post-treatment ports on the carbon drums. The PID readings provide an indication of the levels of soil contamination/vapors remaining in the soil. The results of the monitoring shows generally consistently low PID readings. Soil sampling has not been performed since the commencement of system operation.

4.0 OPERATION AND MAINTENANCE PLAN

4.1 General

This Operation and Maintenance Plan describes the measures necessary to maintain the mechanical components of the AS/SVE system for the Site.

4.2 Remedial System Operation and Maintenance

The shed contains an AS compressor and an SVE blower. The sparge compressor is a Becker KDT 3.100 rotary vane oil-less 10 horsepower (hp) compressor rated at 69 scfm (standard cubic feet per minute) at 18 psi (pounds per square inch). The SVE blower is a Rotron 10 hp explosion-proof Environmental Blower rated at 400 scfm at 0 inches H2O. The sparge compressor is connected to air sparging wells AS-1 through AS-1. The SVE blower is connected to SVE legs L-1 through L-9.

The SVE blower discharge is directed to two drums of activated carbon connected in series. The drums are located adjacent and east of the remediation shed. The final discharge from the drums is directed to a point approximately four feet above the building's roofline.

The monthly maintenance tasks for the AS/ SVE system are as follows:

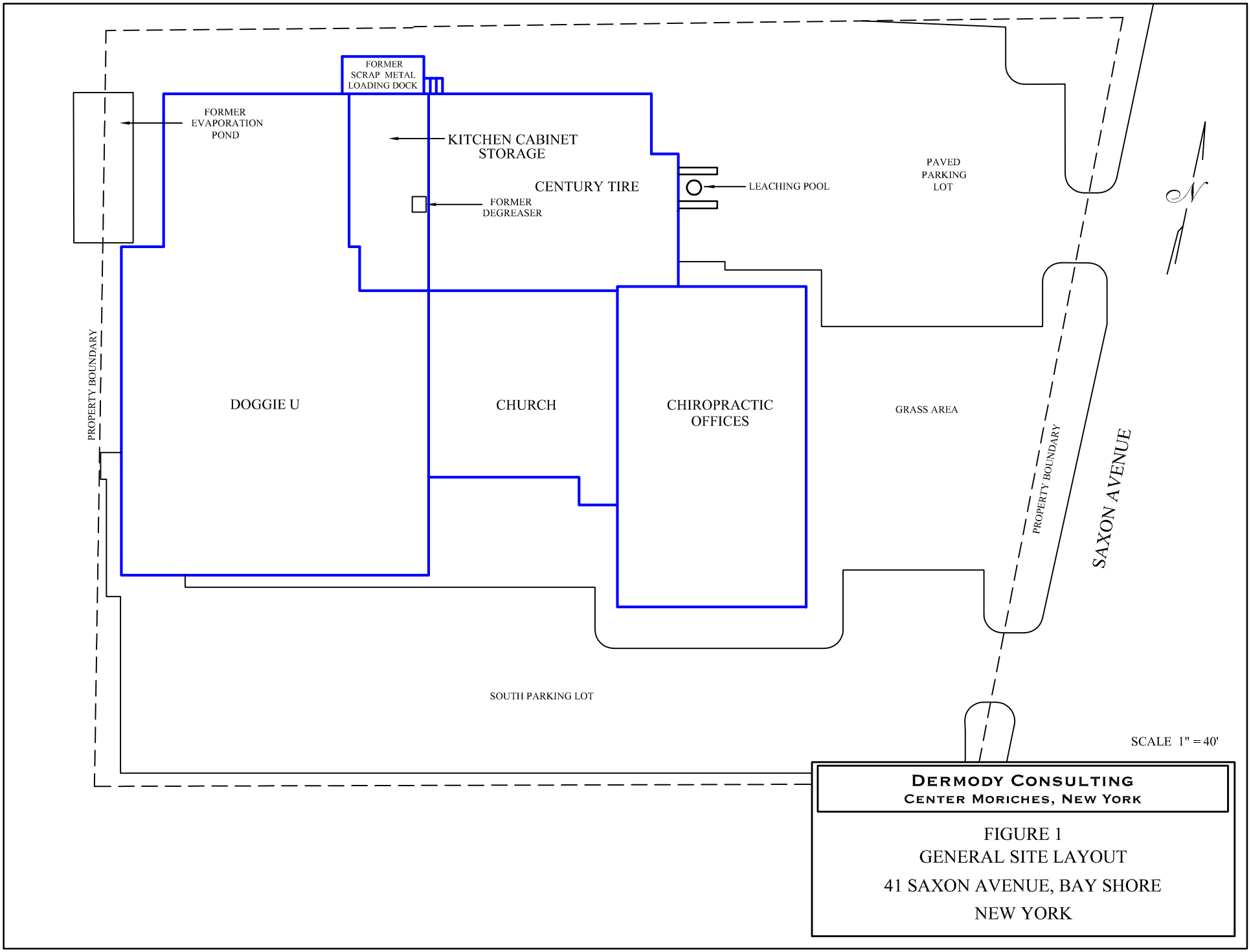
- Checking of blower and compressor motor operation;
- Shutting down system as necessary to inspect and clean the system filters;
- Restarting system and monitoring of components for proper operation;
- Noting any issues and making recommendations for repairs, if necessary.

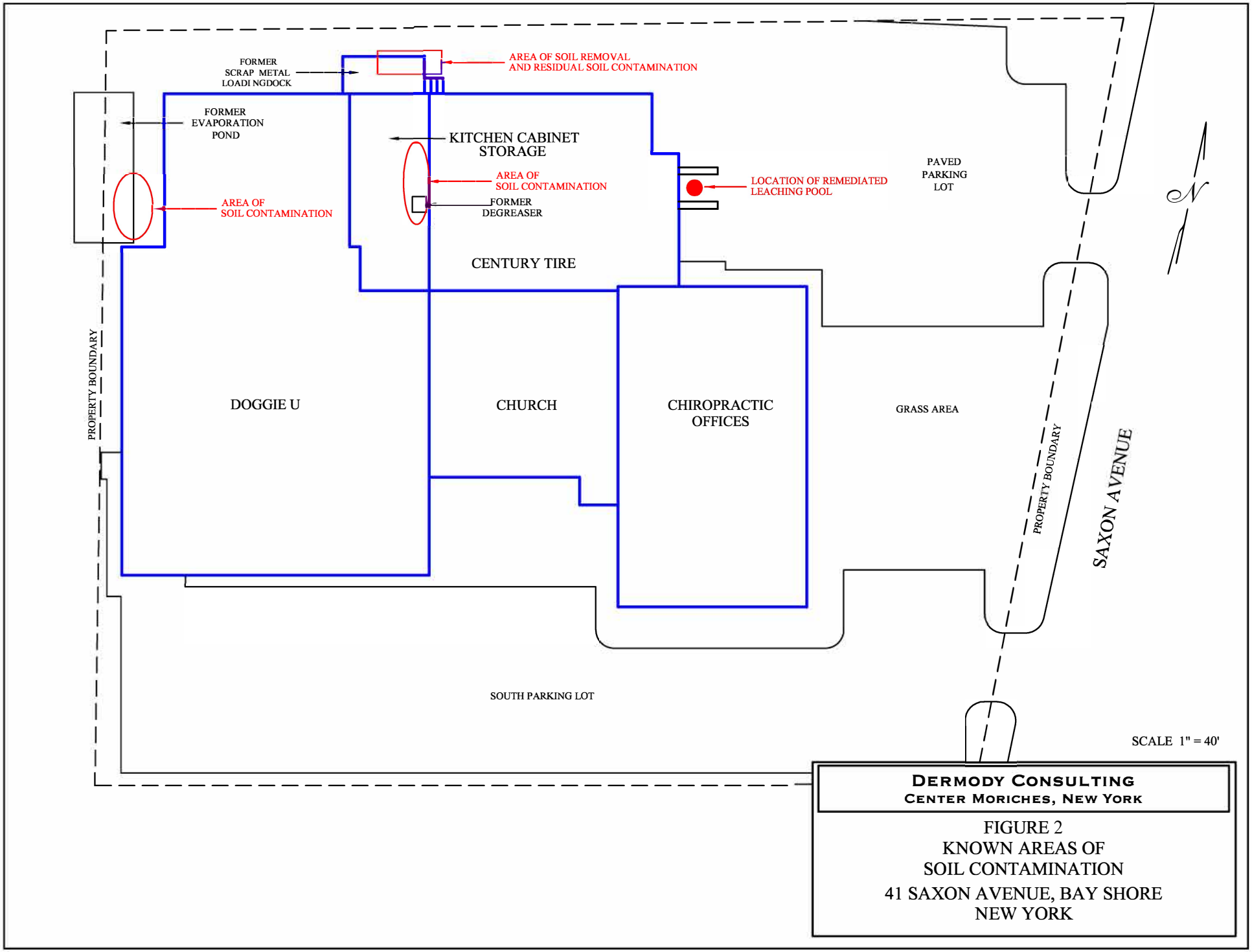
The operation of the AS/SVE is designed to remove contaminated vapors from the soil beneath and exterior to the building, remove contaminants from the groundwater, and, also, act as an SSDS to prevent the intrusion of soil vapor into the indoor airspace of the building.

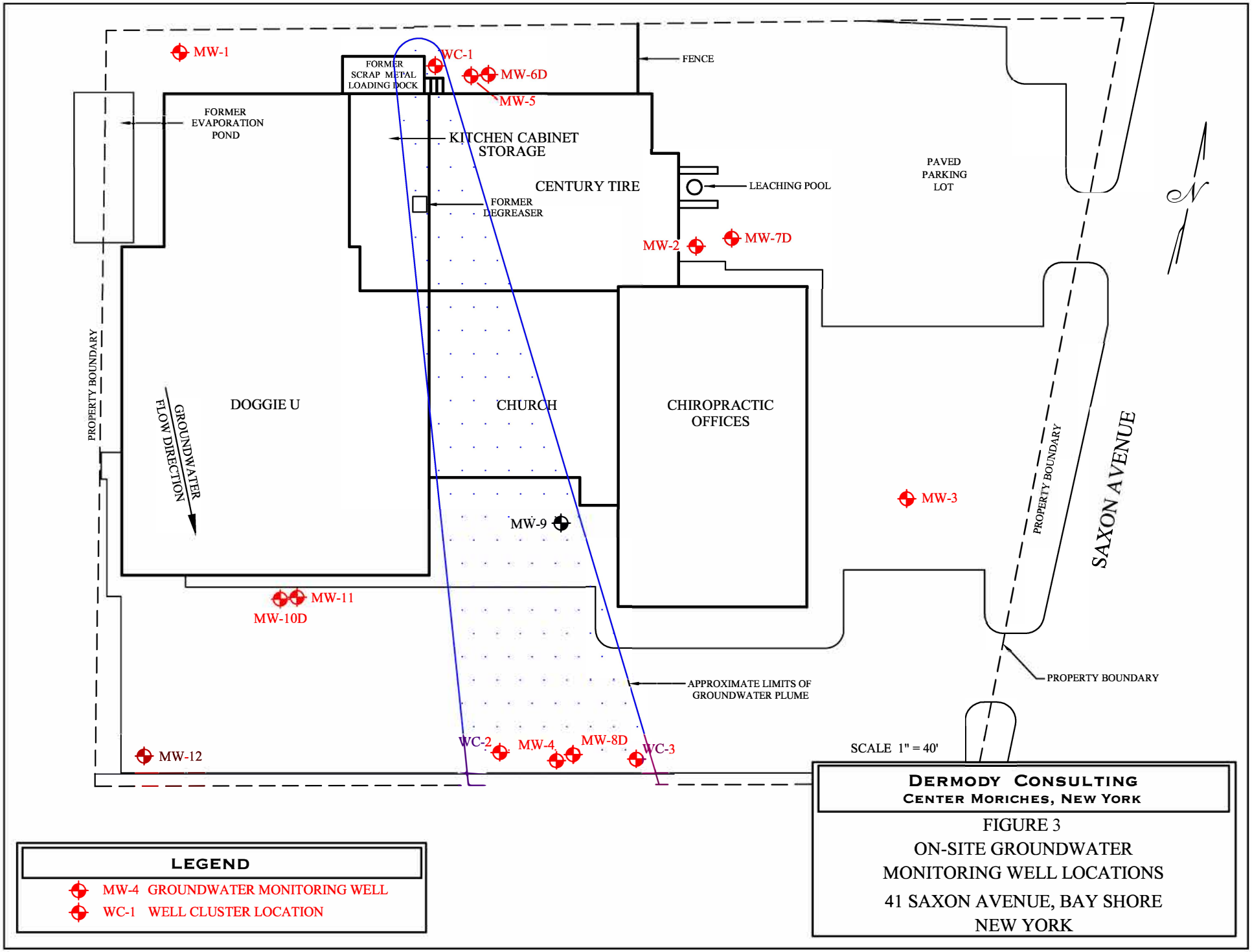
4.3 System Alarms

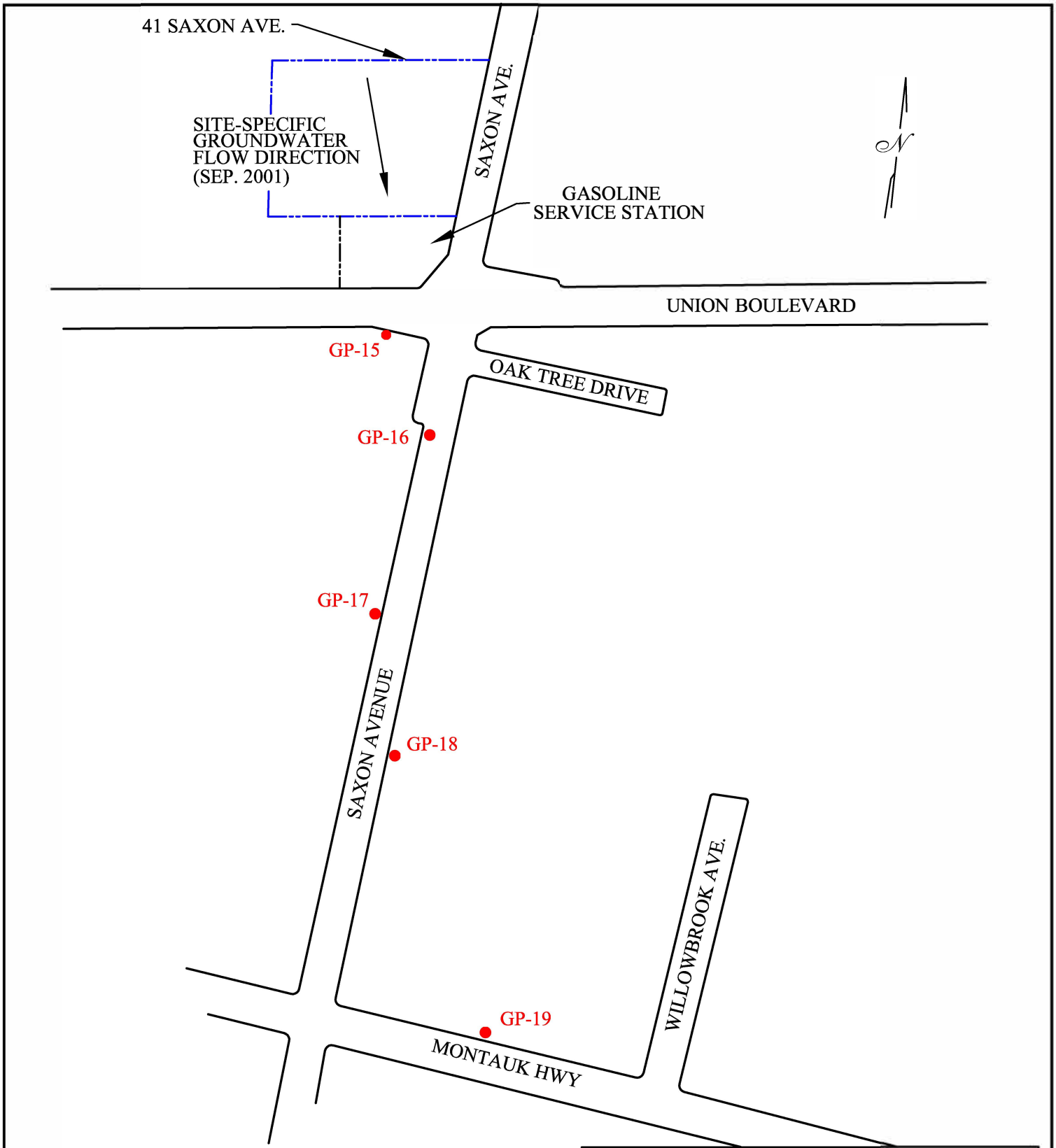
In the event that the system blower or compressor overheat, the system

automatically shuts down and a high-temperature visual alarm lights on the control panel. In addition, the AS compressor cannot be operated without the concurrent operation of the SVE blower.


FORMER SCRAP METAL LOADING DOCK
FORMER EVAPORATION POND
KITCHEN CABINET STORAGE
CENTURY TIRE
FORMER DEGREASER
LEACHING POOL
PAVED PARKING LOT
N
PROPERTY BOUNDARY
DOGGIE U
CHURCH
CHIROPRACTIC OFFICES
GRASS AREA
PROPERTY BOUNDARY
SAXON AVENUE
SOUTH PARKING LOT
SCALE 1" = 40'
DERMODY CONSULTING
CENTER MORICHES, NEW YORK
FIGURE 1
GENERAL SITE LAYOUT
41 SAXON AVENUE, BAY SHORE
NEW YORK


FORMER
SCRAP METAL
LOADI NGDOCK
AREA OF SOIL REMOVAL
AND RESIDUAL SOIL CONTAMINATION
FORMER
EVAPORATION
POND
KITCHEN CABINET
STORAGE
AREA OF
SOIL CONTAMINATION
FORMER
DEGREASER
LOCATION OF REMEDIATED
LEACHING POOL
PAVED
PARKING
LOT
AREA OF
SOIL CONTAMINATION
CENTURY TIRE
PROPERTY BOUNDARY
DOGGIE U
CHURCH
CHIROPRACTIC
OFFICES
GRASS AREA
PROPERTY BOUNDARY
SAXON AVENUE
SOUTH PARKING LOT
SCALE 1" = 40'
DERMODY CONSULTING
CENTER MORICHES, NEW YORK
FIGURE 2
KNOWN AREAS OF
SOIL CONTAMINATION
41 SAXON AVENUE, BAY SHORE
NEW YORK


MW-1
WC-1
MW-6D
MW-5
FORMER SCRAP METAL LOADING DOCK
FENCE
FORMER EVAPORATION POND
KITCHEN CABINET STORAGE
CENTURY TIRE
FORMER DEGREASER
LEACHING POOL
PAVED PARKING LOT
MW-2
MW-7D
PROPERTY BOUNDARY
DOGGIE U
CHURCH
CHIROPRACTIC OFFICES
GROUNDWATER FLOW DIRECTION
MW-3
MW-9
SAXON AVENUE
PROPERTY BOUNDARY
MW-11
MW-10D
APPROXIMATE LIMITS OF GROUNDWATER PLUME
PROPERTY BOUNDARY
MW-12
WC-2
MW-4
MW-8D
WC-3
SCALE 1" = 40'
N
LEGEND
MW-4 GROUNDWATER MONITORING WELL
WC-1 WELL CLUSTER LOCATION
DERMODY CONSULTING
CENTER MORICHES, NEW YORK
FIGURE 3
ON-SITE GROUNDWATER MONITORING WELL LOCATIONS
41 SAXON AVENUE, BAY SHORE
NEW YORK



DERMODY CONSULTING
CENTER MORICHES, NEW YORK

FIGURE 4

OFF-SITE GEOPROBE SAMPLING LOCATIONS
41 SAXON AVENUE, BAY SHORE
NEW YORK

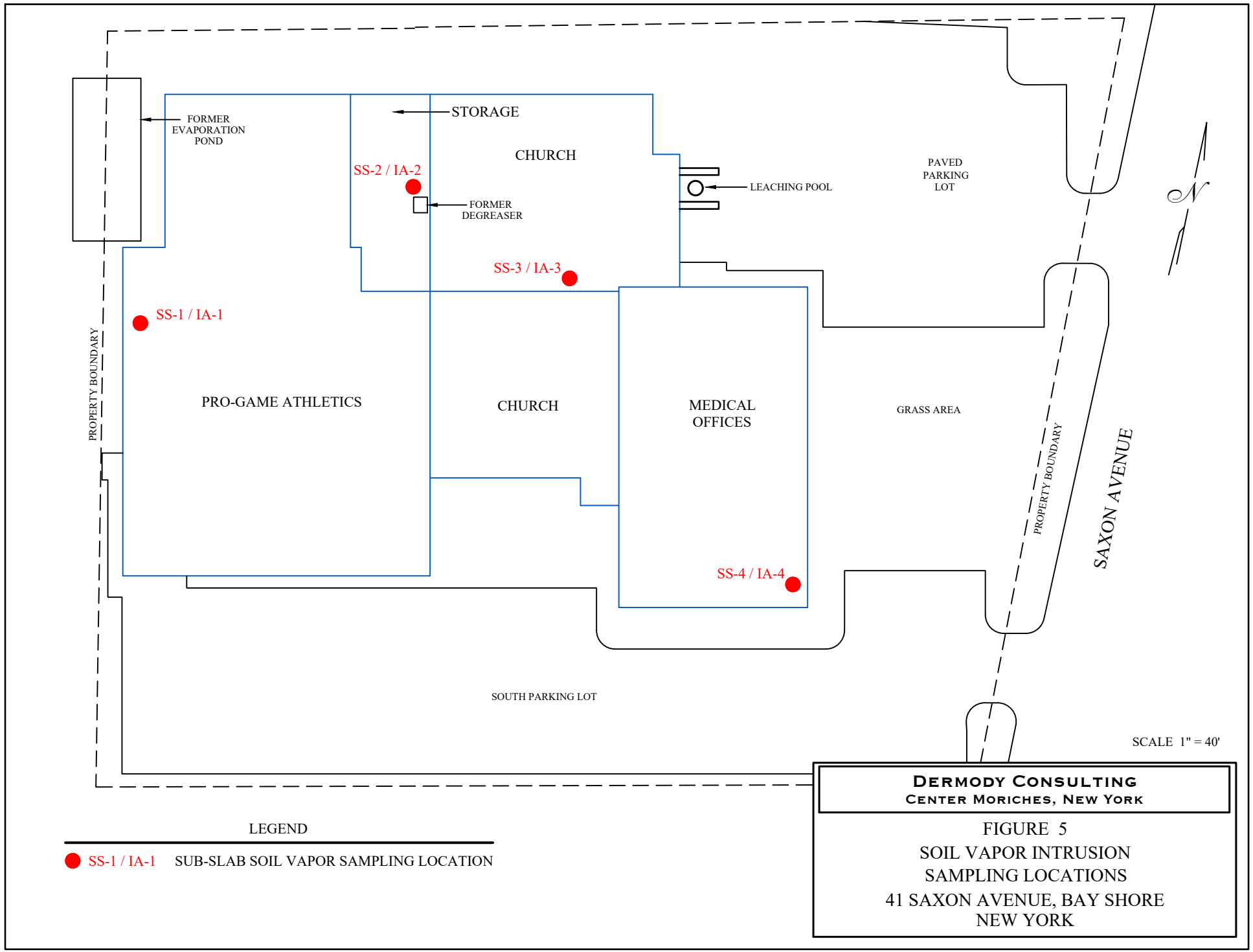

FORMER EVAPORATION POND
STORAGE
CHURCH
SS-2 / IA-2
FORMER DEGREASER
LEACHING POOL
PAVED PARKING LOT
N
SS-3 / IA-3
SS-1 / IA-1
PROPERTY BOUNDARY
PRO-GAME ATHLETICS
CHURCH
MEDICAL OFFICES
GRASS AREA
PROPERTY BOUNDARY
SAXON AVENUE
SS-4 / IA-4
SOUTH PARKING LOT
SCALE 1" = 40'
LEGEND
SS-1 / IA-1 SUB-SLAB SOIL VAPOR SAMPLING LOCATION
DERMODY CONSULTING
CENTER MORICHES, NEW YORK
FIGURE 5
SOIL VAPOR INTRUSION
SAMPLING LOCATIONS
41 SAXON AVENUE, BAY SHORE
NEW YORK

Table 1
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-1 (5'-10')	WC-1 (20'-25')	WC-1 (35'-40')	WC-1 (50'-55')	NYSDEC Class GA Standards
Volatile Organic Compounds ***(in micrograms per liter)***					
Sample Date	**11-21-21**	**11-21-21**	**11-21-21**	**11-21-21**	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	**5**
1,2-Dichlorobenzene	ND	ND	ND	ND	**3**
1,3-Dichlorobenzene	ND	ND	ND	ND	**3**
1,4-Dichlorobenzene	ND	0.61	ND	ND	**3**
p-Diethylbenzene	ND	ND	ND	ND	**5**
1,2-Dichloroethane	ND	ND	ND	ND	**5**
Naphthalene	1.6 J	ND	ND	ND	**10**
Ethylbenzene	0.24 J	0.22 J	0.25 J	ND	**5**
1,2,4-Trimethylbenzene	0.81	0.47 J	0.46 J	ND	**5**
1,1,1-Trichloroethane	ND	ND	ND	ND	**5**
p&m-Xylene	0.80 J	1.0	1.2	ND	**5**
p-Diethylbenzene	ND	ND	ND	ND	**-**
o-Xylene	0.24 J	ND	ND	ND	**5**
Xylenes, total	1.0 J	1.2 J	1.4 J	ND	**5**
Toluene	ND	ND	ND	ND	**5**
Acetone	ND	ND	ND	ND	**50**
Chlorobenzene	ND	0.20 J	0.72	ND	**5**
trans-1,2-dichloroethylene	ND	ND	ND	ND	**5**
cis-1,2-Dichloroethylene	4.2	ND	ND	0.29 J	**5**
MTBE	ND	ND	1.4	0.34 J	**10**
Tetrachloroethylene	**23**	ND	0.21 J	0.51	**5**
Vinyl Chloride	ND	ND	ND	ND	**5**

Table 1
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-1 (5'-10')	WC-1 (20'-25')	WC-1 (35'-40')	WC-1 (50'-55')	NYSDEC Class GA Standards
Volatile Organic Compounds ***(in micrograms per liter)***					
Sample Date	**11-21-21**	**11-21-21**	**11-21-21**	**11-21-21**	**5**
Trichloroethylene	**7.7**	ND	ND	ND	**5**
1,1-Dichloroethane	ND	ND	ND	ND	**5**
Chloromethane	0.27 J	ND	ND	0.34 J	**5**
1,2,3-Trichloropropane	ND	ND	ND	ND	**5**
1,2,4,5-Tetramethylbenzene	ND	ND	ND	0.52	**5**
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	**5**
4-Methyl-2-pentanone	ND	ND	ND	ND	**5**
1,3,5-Trimethylbenzene	0.20 J	ND	ND	ND	**5**
trans-1,3-Dichloropropylene	ND	ND	ND	ND	**5**

Table 1
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-3 (5'-10')	WC-3 (20'-25')	WC-3 (35'-40')	WC-3 (56'-60')	NYSDEC Class GA Standard
Volatile Organic Compounds ***(in micrograms per liter)***					
Sample Date	**11-21-21**	**11-21-21**	**11-21-21**	**11-21-21**	
Acetone	1.0 J	ND	ND	ND	**50**
Benzene	ND	ND	ND	ND	**1**
Bromomethane	ND	ND	ND	ND	**5**
cis-1,2-Dichloroethylene	4.0	ND	0.23 J	ND	**5**
2-Chlorotoluene	ND	ND	ND	ND	**5**
4-Chlorotoluene	ND	ND	ND	ND	**5**
Carbon disulfide	ND	ND	ND	ND	**5**
p-Diethylbenzene	ND	ND	ND	ND	**5**
Chlorobenzene	ND	2.5	1.7	ND	**5**
Chloromethane	ND	ND	ND	ND	**5**
1,1-Dichloroethane	0.93	ND	0.42 J	0.36 J	**5**
1,4-Dichlorobenzene	ND	0.22 J	0.37 J	ND	**3**
Isopropylbenzene	ND	ND	ND	ND	**5**
Methyl tertiary butyl ether (MTBE)	ND	0.25 J	0.92	**230**	**10**
sec-Butylbenzene	0.23 J	ND	ND	ND	**5**
Toluene	ND	ND	ND	ND	**5**
Tetrachloroethylene	**56**	0.43 J	ND	0.59	**5**
Trichloroethylene	**14**	ND	ND	0.40 J	**5**
Vinyl Chloride	**2.4 CCV-E**	ND	ND	ND	**2**
Naphthalene	ND	ND	ND	ND	**10**
1,2,4-Trimethylbenzene	0.21 J	ND	ND	ND	**5**
1,2-Dichlorobenzene	ND	ND	ND	ND	**3**

Table 1
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-3 (5'-10')	WC-3 (20'-25')	WC-3 (35'-40')	WC-3 (55'-60')	NYSDEC Class GA Standard
Volatile Organic Compounds ***(in micrograms per liter)***					
Sample Date	**11-21-21**	**11-21-21**	**11-21-21**	**11-21-21**	
1,3-Dichlorobenzene	ND	ND	ND	ND	**3**
1,4-Dichlorobenzene	ND	ND	ND	ND	**3**
1,2,4,5-Tetramethylbenzene	ND	ND	ND	ND	**5**
1,1,1-Trichloroethane	0.30 J	ND	ND	ND	**5**
1,1-Dichloroethylene	ND	ND	ND	ND	**5**

Table 1
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	MW-8D	MW-9	MW-A	MW-B	MW-4	NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*						
Sample Date	**11-21-21**	**11-21-21**	**11-21-21**	**11-21-21**	**11-21-21**	
trans-1,2-Dichloroethylene	ND	ND	ND	1.1	ND	**5**
Ethylbenzene	ND	ND	1.1	ND	ND	**5**
Isopropylbenzene	ND	ND	**22**	ND	ND	**5**
1,1-Dichloroethylene	ND	ND	ND	ND	0.23 J	**5**
1,1-Dichloroethane	ND	0.70	0.35 J	0.84	ND	**5**
cis-1,2-Dichloroethylene	ND	1.1	0.93	**83**	**47**	**5**
Methyl tertiary butyl ether (MTBE)	0.33 J	0.25 J	ND	ND	ND	**10**
o-Xylene	ND	ND	ND	ND	ND	**5**
p&m-Xylenes	ND	ND	ND	ND	ND	**5**
Xylenes (total)	ND	ND	**5.2**	ND	ND	**5**
1,2,4,5-Tetramethylbenzene	ND	ND	**51** QL-02	0.21 QL-02. J	ND	**5**
1,1,1-Trichloroethane	ND	ND	ND	0.34 J	ND	**5**
Tetrachloroethylene	ND	ND	ND	ND	0.80	**5**
Trichloroethylene	ND	0.37 J	ND	**8.6**	1.5	**5**
n-Butylbenzene	ND	ND	**11**	ND	ND	**5**
n-Propylbenzene	ND	ND	**64**	ND	ND	**5**
Naphthalene	ND	ND	ND	ND	ND	**5**
p-Diethylbenzene	ND	ND	**16**	ND	ND	**5**
p-Isopropyltoluene	ND	ND	0.39 J	ND	ND	**5**
p-Ethyltoluene	ND	ND	1.2	ND	ND	**5**
Chlorobenzene	3.3	ND	ND	ND	ND	**5**
Acetone	ND	1.4 J	1.0 J	1.2 J	1.3 J	**50**

Table 1
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	MW-8D	MW-9	MW-A	MW-B	MW-4	NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*						
Sample Date	**11-21-21**	**11-21-21**	**11-21-21**	**11-21-21**	**11-21-21**	
Chloromethane	ND	0.26 J	ND	ND	ND	**5**
sec-Butylbenzene	ND	**ND**	**10**	ND	ND	**5**
1,2,4-Trimethylbenzene	ND	0.20 J	0.43 J	ND	ND	**5**
2-Butanone	ND	ND	ND	ND	ND	**50**
Vinyl chloride	0.20 J	**8.4**	0.71	**22**	ND	**2**
Toluene	ND	ND	0.35 J	ND	ND	**5**
1,3,5-Trimethylbenzene	ND	ND	0.38 J	ND	ND	**5**
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	**5**
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	**3**
1,4-Dichlorobenzene	0.45 J	ND	ND	ND	ND	**5**
2-Chlorotoluene	ND	ND	ND	ND	ND	**5**
Carbon disulfide	ND	ND	ND	ND	ND	**5**
Trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	**5**

ND: NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

QL-02: This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

J: Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

CCV-E: The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

B: Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants

Table 2
Photoionization Detector Readings
41 Saxon Ave.
Bay Shore, New York

Date/Sample location	2-21-22	1-9-22	12-12-21	11-21-21	10-9-21	8-19-21	7-11-21	6-17-21	4-6-21	3-13-21
L-1	0.0	0.2	0.0	0.3	1.2	2.4	0.7	1.9	0.3	0.0
L-2	0.1	0.2	0.3	0.3	0.3	3.4	0.6	0.9	0.2	0.6
L-3	0.1	0.1	0.4	0.3	0.9	2.6	0.6	2.2	0.2	0.9
L-4	0.6	1.1	1.5	4.2	3.3	1.3	1.8	2.9	1.1	1.1
L-5	1.7	2.1	2.3	3.1	3.1	4.9	3.1	5.0	1.6	2.1
L-6	2.1	1.0	0.2	1.3	1.8	2.3	0.5	0.9	0.5	0.2
L-7	3.3	1.3	0.2	NS	NS	1.5	NS	0.1	0.3	NS
L-8	1.7	1.1	0.9	NS	NS	3.7	NS	1.7	1.9	NS
L-9	1.7	1.9	2.2	NS	NS	4.6	NS	1.1	2.4	NS
InfluentDrum #1	NS	NS	NS	NS	NS	0.9	1.3	0.2	1.8	1.0
InfluentDrum #2	NS	NS	NS	NS	NS	1.1	0.0	1.1	1.3	0.2
EffluentDrum #2	NS	NS	NS	NS	NS	1.3	0.4	0.8	1.0	0.8

NS- not sampled

Date/Sample location	2-16-21	1-24-21
L-1	1.1	0.4
L-2	2.1	0.7
L-3	0.7	0.2
L-4	0.5	1.9
L-5	1.9	2.5
L-6	2.9	1.5
L-7	6.3	2.0
L-8	5.1	3.0
L-9	1.8	3.1
InfluentDrum #1	0.9	1.0
InfluentDrum #2	1.0	1.5
EffluentDrum #2	1.5	1.5

NS- not sampled

Appendix A

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Site Management Periodic Review Report Notice

Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. V00338

Site Name The Staver Company, Inc.

Site Address: 41 Saxon Avenue Zip Code: 11706
City/Town: Bay Shore
County: Suffolk
Site Acreage: 1.900

Reporting Period: January 30, 2021 to January 30, 2022

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below?	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. V00338

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
	Mr. Joseph Content	Soil Management Plan Monitoring Plan
		Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan O&M Plan IC/EC Plan
		Ground Water Use Restriction Landuse Restriction Site Management Plan

The property may be used for restricted residential, commercial, or industrial use (as these uses are defined in 6 NYCRR Part 375);

Groundwater and system monitoring and other environmental or public health monitoring will be performed as defined in this SMP;

The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the New York State Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in this SMP;

All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;

Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;

Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;

Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;

The NYSDEC will be notified if the Site has a change of use, is sold or is subdivided;

The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, and any potential impacts that are identified must be monitored or mitigated; and

Vegetable gardens and farming on the Site are prohibited.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
	Cover System Air Sparging/Soil Vapor Extraction Air Sparging/Soil Vapor Extraction Monitoring Wells

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00338

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Pete Dermody (print name) at Dermody Consultins 32 Chichester Ave., Center Moriches, NY 11934 (print business address)

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4/6/22
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Peter Demody (print name) at Demody Consulting, 32 Chichester Ave. Center Moriches NY 11934 (print business address)

am certifying as a Qualified Environmental Professional for the Owner (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
Peter Cor		4/6/22

Appendix B

Table 1
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-1 (5'-10')					WC-1 (20'-25')					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
1,1,1-Trichloroethane	ND	ND	ND	0.51	0.30 J	ND	ND	ND	ND	ND	**5***
1,1-Dichloroethane	ND	ND	ND	0.70	0.32 J	ND	ND	ND	ND	ND	**5***
1,2,3-Trichlorobenzene	ND	ND	0.27 CCV-E QL-02, J	ND	ND	ND	ND	ND	ND	ND	**3**
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,2,4,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,2-Dibromo-3- Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27 J	**5***
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28	**5***
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	1.1	0.54	ND	0.27 J	**3**
2-Butanone	0.55 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	**50**
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Acetone	ND	ND	1.0 CCV-E, J	ND	ND	1.2 CCV-E, J	ND	ND	ND	ND	**50**
Chlorobenzene	ND	ND	ND	ND	ND	ND	0.22 J	ND	ND	3.6	**5***
Chloromethane	ND	0.56	ND	ND	ND	0.56	0.47 J	ND	ND	ND	**5***
cis-1,2- Dichloroethylene	0.71	ND	ND	**90**	**42**	ND	ND	ND	ND	0.43 J	**5***
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
MTBE	ND	ND	ND	ND	ND	ND	ND	0.59	ND	1.8	**10**
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10**
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
p-& m-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
p-Diethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28	**5***

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-1 (5'-10')					WC-1 (20'-25')					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
Tetrachloroethylene	**5.2 QL-02**	0.50	0.44 QL-02, J	**120**	**110**	ND	ND	ND	0.28 QL- 02,J	0.50	**5***
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
trans-1,2-Dichloroethylene	ND	ND	ND	0.83	0.42 J	ND	ND	ND	ND	ND	**5***
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Trichloroethylene	1.4	ND	ND	**66**	**68**	ND	ND	ND	ND	0.51	**5***
Vinyl Chloride	ND	ND	ND	ND	0.82	ND	ND	ND	ND	ND	**5***
Xylenes, total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-1 (35'-40')					WC-1 (55'-60')					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,1-Dichloroethane	ND	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND	**5***
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7.8**	**5***
1,2,4,5-Tetramethylbenzene	ND	0.21 J	ND	ND	ND	ND	ND	ND	ND	0.38	**5***
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,2-Dibromo-3- Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	**77**	**5***
1,2-Dichlorobenzene	0.20 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.39 J	**5***
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,4-Dichlorobenzene	0.59	0.47 J	ND	0.22 J	ND	ND	ND	ND	ND	ND	**3**
2-Butanone	0.34 Cal-E, J	ND	ND	ND	ND	0.53 J, B	ND	ND	ND	ND	**50**
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.40 J	**5***
Acetone	ND	1.2 J	ND	ND	ND	ND	1.2 J	2.2 CCV-E	ND	ND	**50**
Chlorobenzene	4.3	3.1	ND	1.6	0.27 J	ND	0.23 J	ND	ND	ND	**5***
Chloromethane	ND	0.64	ND	ND	ND	ND	0.48 J	ND	ND	ND	**5***
cis-1,2- Dichloroethylene	0.56	ND	ND	0.30 J	0.20 J	ND	0.23 J	ND	**8.7**	0.34 J	**5***
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
MTBE	0.45 J	ND	**13**	2.3	ND	0.77	1.2	0.32 J	0.29 J	ND	**10**
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10**
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
p-& m-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
p-Diethylbenzene	0.25 J	0.33 CCV-E, J	ND	ND	ND	ND	ND	ND	ND	ND	**5***

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-1 (35'-40')					WC-1 (55'-60')					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
Tetrachloroethylene	0.32 J	0.20 QL-02, J	ND	0.23 QL-02, J	0.66	0.93 QL-02	4.1 QL-02	1.5 QL-02	**20**	**9.6**	**5***
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
trans-1,3- Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22 J	**5***
Trichloroethylene	0.22 J	ND	ND	0.22 J	0.21 J	0.41 J	2.5 QL-02	0.74	**6.1**	2.1	**5***
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Xylenes, total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-2 (5'-10')					WC-2 (20'-25')					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
1,1,1-Trichloroethane	4.6	**10**	3.7	4.5	1.6	ND	ND	ND	ND	ND	**5***
1,2,3-Trichloropropane	ND	ND	ND	ND	**12**	ND	ND	ND	ND	ND	**5***
1,1-Dichloroethane	**7.9**	**10**	4.6	ND	3.3	ND	ND	ND	ND	ND	**5***
1,1-Dichloroethylene	ND	0.73	0.50	0.27 J	0.27 J	ND	ND	ND	ND	ND	**5***
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	**120**	ND	ND	ND	ND	ND	**5***
1,2-Dichlorobenzene	ND	0.29 J	0.20, J	0.51	ND	ND	ND	ND	ND	ND	**3**
1,2-Dichloroethane	ND	ND	ND	2.9	0.71	ND	ND	ND	ND	ND	**5***
1,4-Dichlorobenzene	ND	ND	ND	0.25 J	ND	0.31 J	0.27 J	0.23 J	0.26 J	0.23 J	**3**
2-Butanone	ND	ND	ND	ND	**13**	ND	ND	ND	ND	ND	**5***
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Acetone	ND	ND	1.1 CCV-E, J	ND	ND	ND	ND	ND	ND	ND	**50**
Bromochloromethane	ND	ND	ND	ND	**7.0**	ND	ND	ND	ND	ND	**5***
Bromoform	ND	ND	ND	ND	0.35 J	ND	ND	ND	ND	ND	**5***
Bromomethane	1.4 J, B	ND	ND	ND	ND	0.22 J, B	ND	ND	ND	ND	**5***
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Chlorobenzene	ND	0.29 J	ND	0.30 J	ND	2.0	0.98	1.5 QL-02	1.1	0.71	**5***
Chloroethane	4.2	ND	1.5	ND	**36**	ND	ND	ND	ND	ND	**5***
Chloromethane	ND	0.71	ND	ND	ND	ND	0.38 J	ND	ND	ND	**5***
cis-1,2-Dichloroethylene	**470**	**290**	**160**	**150**	**100**	1.2	4.3	ND	0.27 J	0.32 J	**5***
MTBE	ND	0.42 J	ND	ND	ND	ND	0.20 J	0.36 J	0.36 J	0.73	**10**
Tetrachloroethylene	ND	0.91 QL-02	4.5 QL-02	0.32 QL-02, J	0.23 J	ND	ND	ND	ND	ND	**5***
Toluene	ND	ND	ND	ND	0.47 J	ND	ND	ND	ND	ND	**5***
trans-1,2- Dichloroethylene	**14**	**6.8**	**5.3**	3.8	2.9	ND	ND	ND	ND	ND	**5***
trans-1,3- Dichloropropylene	ND	ND	ND	ND	0.21 J	ND	ND	ND	ND	ND	**5***
Trichloroethylene	1.8 J	**6.3 QL-02**	**17**	1.1	1.8	ND	ND	ND	ND	0.24 J	**5***
Vinyl Chloride	**350**	**240**	**76**	**150**	**93**	0.92	3.1	ND	ND	ND	**5***

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-2 (35'-40')					WC-2 (55'-60')					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	**5***
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,1-Dichloroethane	ND	ND	0.38 J	1.2	0.23 J	0.24 J	0.89 QL-02	0.60	1.3	0.52	**5***
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,4-Dichlorobenzene	0.31 J	0.20 J	ND	0.22 J	ND	ND	ND	ND	0.23 J	0.30 J	**3**
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21 J	**5***
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	0.91	ND	ND	ND	**5***
Acetone	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	**50**
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Bromomethane	0.21 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Chlorobenzene	2.0	0.90	0.51 QL-02	1.2	1.4	0.27 J	ND	ND	2.2	**5.3**	**5***
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Chloromethane	ND	0.20 CCV-E, QL-02, J	ND	ND	ND	ND	0.38 CCV-E, QL-02, J	ND	ND	ND	**5***
cis-1,2-Dichloroethylene	1.2	0.91	0.60	1.0	0.41 J	1.0	0.66	ND	0.20 J	0.37 J	**5***
MTBE	0.20 J	**34**	8.0	**12**	5.1	**240**	**2300**	**250**	**82**	**360**	**10**
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	2.7	0.79 QL-02	0.87 QL-02	0.36 J	**5***
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
trans-1,2- dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
trans-1,3- Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Trichloroethylene	ND	ND	0.44 J	0.51	0.21 J	0.21 J	0.32 J	ND	0.25 J	ND	**5***
Vinyl Chloride	0.90	0.42 J	ND	ND	ND	ND	ND	ND	ND	ND	**5***

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-3 (5'-10')					WC-3 (20'-25')					NYSDEC Class GA Standard
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,1-Dichloroethane	0.29 J	0.53 QL-02	0.33 J	0.25 J	0.41 J	ND	ND	ND	ND	ND	**5***
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,2,4,5-Tetramethylbenzene	ND	ND	ND	0.63 B	ND	ND	ND	ND	ND	ND	**5***
1,2,4-Trimethylbenzene	ND	ND	ND	0.72	ND	ND	ND	ND	ND	ND	**5***
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	0.32 J	ND	ND	**3**
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	ND	**3**
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.22 J	ND	ND	0.35 J	0.20 J	**3**
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	0.20 J	ND	ND	**5***
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Benzene	ND	ND	ND	ND	ND	ND	ND	0.29 J	ND	ND	**1**
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Chlorobenzene	ND	ND	ND	ND	ND	1.8	0.36 J	**7.4** QL-02	3.6	2.6	**5***
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
cis-1,2-Dichloroethylene	1.8	1.7	3.4	1.2	1.2	0.34 J	0.29 J	ND	ND	ND	**5***
Isopropylbenzene	ND	ND	ND	0.47 CCV- E, J	ND	ND	ND	ND	0.21 CCV- E, J	ND	**5***
Methyl tertiary butyl ether (MTBE)	0.37 J	3.7	0.37 J	ND	0.32 J	0.47 J	1.8	1.6	1.0	1.2	**10**
Naphthalene	ND	ND	ND	1.5 CCV-E, QL-02, J	ND	ND	ND	ND	ND	ND	**10**
p-Diethylbenzene	ND	ND	ND	0.45 J	0.25 J	ND	ND	0.59	0.29 J	ND	**5***
sec-Butylbenzene	0.30 J	0.20 J	0.33 J	1.1	0.56	ND	ND	ND	ND	ND	**5***
Tetrachloroethylene	4.2	3.7	**8.4** QL-02	1.8	3.4	ND	ND	ND	ND	ND	**5***
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Trichloroethylene	1.2	1.2	3.9	1.2	2.2	ND	ND	ND	ND	ND	**5***
Vinyl Chloride	ND	ND	0.94	0.63	0.34 J	ND	ND	ND	ND	ND	**2**

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	WC-3 (35'-40')					WC-3 (55'-60')					NYSDEC Class GA Standard
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.26 J	ND	**5***
1,1-Dichloroethane	ND	ND	ND	0.70	1.4	0.26 J	ND	1.5	1.5	0.45 J	**5***
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	0.28 J	ND	**5***
1,2,4,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,2-Dichlorobenzene	0.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,3-Dichlorobenzene	0.29 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,4-Dichlorobenzene	0.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
2-Butanone	ND	ND	ND	ND	ND	0.47 Cal-E, J	ND	ND	ND	ND	**50**
2-Chlorotoluene	0.22 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Acetone	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	**50**
Benzene	ND	0.20 QL-02, J	ND	ND	ND	ND	ND	ND	ND	ND	**1**
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Chlorobenzene	**6.0**	0.72	ND	ND	0.74	ND	ND	ND	ND	ND	**5***
Chloromethane	ND	0.44 CCV-E, QL-02, J	ND	ND	ND	0.69	ND	ND	ND	ND	**5***
cis-1,2-Dichloroethylene	0.26 J	0.35 J	0.25 J	0.93	1.6	0.38 J	1.7 J	ND	0.25 J	0.25 J	**5***
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Methyl tertiary butyl ether (MTBE)	0.82	2.0	0.46 J	3.7	1.0	**88**	**260**	**450**	**190**	0.85	**10**
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10**
***p-Diethylbenzene**	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Tetrachloroethylene	ND	ND	ND	ND	ND	0.56	ND	1.1 QL-02	0.92 QL-02	0.49 J	**5***
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Trichloroethylene	ND	ND	ND	0.45 J	0.37 J	0.35 J	ND	0.50	0.63	0.84	**5***
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	MW-8D					MW-9					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	1.0	**7.3**	**66**	**50**	**5***
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.66	1.4	1.4	4.9	3.8	**5***
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	0.22 J	1.6	1.2	**5***
1,2,4,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	0.22 QL-02, J	ND	ND	ND	**5***
1,2,4-Trimethylbenzene	ND	ND	ND	0.54	0.26 J	ND	ND	ND	0.54	0.26 J	**5***
1,2-Dichlorobenzene	ND	0.28 J	ND	ND	ND	ND	ND	ND	ND	ND	**5***
1,3,5-Trimethylbenzene	ND	ND	ND	1.0	ND	ND	ND	ND	1.0	ND	**5***
1,3-Dichlorobenzene	0.10 J	0.20 J	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,4-Dichlorobenzene	0.63	0.66	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Acetone	ND	ND	ND	ND	ND	1.9 J	ND	ND	ND	ND	**50**
2-Butanone	0.59 J, B	ND	ND	ND	20	ND	ND	ND	ND	20	**50**
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Carbon disulfide	ND	ND	ND	ND	ND	ND	0.52	ND	ND	ND	**5***
Chlorobenzene	**5.2 QL-02**	2.9	3.4 QL-02	1.4	4.6	ND	ND	ND	ND	ND	**5***
Chloromethane	0.46 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
cis-1,2-Dichloroethylene	0.20 J	ND	ND	ND	ND	2.9	**8.6**	**34**	**230**	**150**	**5***
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Isopropylbenzene	ND	0.25 J	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Methyl tertiary butyl ether (MTBE)	0.67	1.9	0.67	0.99	1.0	ND	0.44 J	ND	ND	ND	**10**
trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	0.29 J	ND	3.2	1.8	**5***
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
p-& m-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
***p-Diethylbenzene**	0.31 J	0.38 J	0.21 J	ND	ND	ND	0.25 J	ND	ND	ND	**5***
***p-Ethyltoluene**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	3.0	**5.7** QL-02	**19**	**17**	**5***

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	MW-8D					MW-9					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Trans-1,2-Dichloroethylene	ND	ND	0.51	ND	ND	ND	ND	0.51	ND	ND	**5***
Trichloroethylene	ND	ND	ND	ND	ND	0.64	2.1	**19**	**100**	**99**	**5***
Vinyl chloride	ND	ND	**14**	**44**	**16**	**2.3**	ND	**14**	**44**	**16**	**2**
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	MW-A					MW-B					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J	ND	**5***
1,1-Dichloroethane	ND	0.22 J	ND	ND	0.21 J	ND	ND	ND	0.86	ND	**5***
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
***1,2,4,5-Tetramethylbenzene**	**56**	**82**	**59**	**80**	**83**	0.66	2.3	2.6	**7.1**	3.9	**5***
1,2,4-Trimethylbenzene	ND	0.90	0.48 J	ND	0.26 J	ND	ND	ND	ND	ND	**5***
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.20 J	ND	**5***
1,3,5-Trimethylbenzene	ND	2.7	1.3	ND	1.0	ND	ND	DN	ND	ND	**5***
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**50**
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Acetone	ND	ND	ND	ND	ND	1.4 J	ND	ND	ND	ND	**50**
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5***
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.42 J	ND	**5***
Chloromethane	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	**5***
cis-1,2-Dichloroethylene	ND	1.2	1.6	1.2	2.9	0.26 J	1.4	**8.6**	**110**	0.39 J	**5***
Ethyl Benzene	2.1 J	2.7	3.8	**17**	**13**	ND	ND	ND	ND	0.29 J	**5***
Isopropylbenzene	**31**	**53 CCV-E**	**48**	**74 CCV-E**	41	ND	0.20 CCV-E, J	0.29 J	1.1 CCV-E	1.6	**5***
Methyl tertiary butyl ether (MTBE)	ND	ND	ND	ND	ND	ND	0.32 J	ND	1.1 J	ND	**10**
Naphthalene	ND	ND	ND	1.5	1.6 JB	ND	ND	ND	ND	ND	**5***
n-Butylbenzene	**13**	**15 CCV-E, QL-02**	**11**	**18**	**14**	ND	0,20 CCV-E, QL-02, J	ND	0.65	0.62	**5***
n-Propylbenzene	**86**	**150 CCV-E, QL-02**	**120**	**160**	**95**	ND	0.51 CCV-E, QL-02	0.67	2.7 CCV-E, QL-02	3.9	**5***
o-Xylene	ND	0.79	1.1	0.49 J	0.30 J	ND	ND	ND	ND	ND	**5***
p- & m-Xylenes	**11**	**13**	**18**	**8.9**	3.8	ND	ND	ND	ND	ND	**5***
***p-Diethylbenzene**	**21**	**31 CCV-E**	**22**	**31**	**24**	ND	0.57 CCV-E	0.63	2.0	1.0	**5***
***p-Ethyltoluene**	1.5 J	3.3	2.6	2.3	1.1	ND	ND	ND	ND	ND	**5***
p-Isopropyltoluene	ND	1.2 CCV-E, QL-02	0.78 J	0.88	0.58	ND	ND	ND	ND	ND	**5***

Table 1 *(Continued)*
Groundwater Chemical Analytical Results
41 Saxon Avenue, Bay Shore, New York

Sample ID	MW-A					MW-B					NYSDEC Class GA Standards
Volatile Organic Compounds *(in micrograms per liter)*											
Sample Date	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	**12/13/20**	**6-14-20**	**2-9-20**	**4-14-19**	**11-4-18**	
sec-Butylbenzene	**10**	**15 CCV-E, QL-02**	**12**	**20**	**13**	ND	0.21 CCV-E, QL-02, J	0.23 J	0.89	0.50	**5***
trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	**5***
Tetrachloroethylene	ND	ND	ND	ND	0.24 J	ND	ND	ND	**18**	0.83	**5***
Toluene	ND	0.90	1.1	1.3	1.4	ND	ND	ND	ND	0.23 J	**5***
Trichloroethylene	ND	ND	ND	1.6	1.6	ND	ND	ND	**64**	1.4	**5***
Vinyl chloride	ND	ND	ND	ND	0.41 J	ND	ND	1.4	**14**	ND	**2**
Xylenes (total)	**11**	**13**	**19**	ND	4.1	ND	ND	ND	ND	ND	**5***

NOTES:
ND: NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL).
QL-02: This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J: Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E: The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B: Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants
* Analyte is not certified, or the state of the sample's origination does not offer certification for the analyte.