CRP-CSH GREENBURGH SITE

WESTCHESTER COUNTY

GREENBURGH, NEW YORK

SITE MANAGEMENT PLAN

NYSDEC Site Number: C360151

Prepared for:

CRP/CSH Greenburgh L.L.C.

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Washington D.C. 20004

Prepared by:

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Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date

JUNE 2020

CERTIFICATION STATEMENT

I ROBERT DYKSTRA am currently a NYS registered professional engineer and certify to the best of my professional knowledge and belief that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

P.E.

6/01/2020 DATE

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List of Acronyms

AS	Air Sparging
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CO2	Carbon Dioxide
CP	Commissioner Policy
DER	Division of Environmental Remediation
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
EWP	Excavation Work Plan
GHG	Green House Gas
GWE&T	Groundwater Extraction and Treatment
HASP	Health and Safety Plan
IC	Institutional Control
LNAPL	Light Non-Aqueous Phase Liquid
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PAHs	Polycyclic Aromatic Hydrocarbons
PID	Photoionization Detector
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RP	Remedial Party
RSO	Remedial System Optimization

SAC	State Assistance Contract
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SPDES	State Pollutant Discharge Elimination System
SSDS	Sub-slab Depressurization System
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program

ES EXECUTIVE SUMMARY

The following provides a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, maintenance and reporting activities required by this Site Management Plan:

Site Identification: C360151, CRP-CSH Greenburgh Site, 715 Dobbs Ferry Road, Town of Greenburgh, Westchester County, NY

Institutional Controls:	1. The Site may be used for restricted residential use;
	2. The use of groundwater underlying the Site is prohibited without necessary water quality treatment as determined by the NYSDOH or the Westchester County Department of Health in order to render the groundwater 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 NYSDOH or the Westchester County Department of Health.
	3. Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as described in this SMP.
	4. The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on Figure 7, and any potential impacts that are identified must be monitored or mitigated.
	5. Vegetable gardens and farming on the site are prohibited.
	6. All ECs must be inspected at a frequency and in a manner defined in the SMP.
Engineering Controls:	1. Cover system
	2. Sub-slab depressurization system.

Inspections:	Frequency
1. Cover inspection	Quarterly until issuance of Certificate of Completion, then Annually

2. Sub-slab depressurization system.	Quarterly until issuance of Certificate of Completion, then Annually
Monitoring:	
1. Groundwater Monitoring Wells	Quarterly
Maintenance:	
1. Sub-slab depressurization system.	As needed
Reporting:	
1. Inspection Report	Annually
2. Periodic Review Report	Annually

Further descriptions of the above requirements are provided in detail in the latter sections of this Site Management Plan.

1.0 INTRODUCTION

1.1 General

This Site Management Plan (SMP) is a required element of the remedial program for the CRP-CSH Greenburgh Site located in Greenburgh, New York (hereinafter referred to as the "Site"). See Figure 1. The Site is currently in the New York State (NYS) Brownfield Cleanup Program (BCP) Site No. C360151 which is administered by New York State Department of Environmental Conservation (NYSDEC).

CRP/CSH Greenburgh L.L.C. entered into a Brownfield Cleanup Agreement (BCA) on August 2016 with the NYSDEC to remediate the Site. A figure showing the Site location and boundaries of this Site is provided in Figure 2. The boundaries of the Site are more fully described in the metes and bounds Site description that is part of the Environmental Easement provided in Appendix C. The Site contains a three-story a senior living facility with a footprint of approximately 32,025 square feet, and is a portion of the property located at 715 Dobbs Ferry Road in Greenburgh, NY. The southernmost portion of the property (see Figure 2) is outside of the designated Site.

After completion of the remedial work, some contamination was left at this Site, which is hereafter referred to as "remaining contamination". Institutional and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the Westchester County Clerk, requires compliance with this SMP and all ECs and ICs placed on the Site.

This SMP was prepared to manage remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor's successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion (COC);

- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the Brownfield Cleanup Program (BCA) Site #C360151 for the Site, and thereby subject to applicable penalties.

All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the Site is provided in Appendix A of this SMP.

This SMP was prepared by GTA Engineering Services of New York, PC, on behalf of CRP/CSH Greenburgh L.L.C., in accordance with the requirements of the NYSDEC's DER-10 ("Technical Guidance for Site Investigation and Remediation"), dated May 2010, and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs and/or ECs that are required by the Environmental Easement for the Site.

1.2 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, upgrades to or shut-down of a remedial system, post-remedial removal of contaminated sediment or soil, or other significant change to the Site conditions. In accordance with the Environmental Easement for the Site, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.3 Notifications

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER – 10 for the following reasons:

- 60-day advance notice of any proposed changes in Site use that are required under the terms of the BCA, 6NYCRR Part 375 and/or Environmental Conservation Law.

- 7-day advance notice of any field activity associated with the remedial program.

- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan.

- Notice within 48-hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.

- Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the Brownfield Cleanup Agreement (BCA), and all approved work plans and reports, including this SMP.

- Within 30 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

Table 1 on the following page includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of Site-related contact information is provided in Appendix A.

Table 1: Notifications*

Name	Contact Information
Doug MacNeal, NYSDEC, Div. of Env. Remediation, Bureau C	518-402-9662 douglas.macneal@dec.ny.gov
Alexandra Servis, NYSDEC, Div. of Env. Remediation, Env Program Specialist 1, Site Control	518-402-9473; Alexandra.servis@dec.ny.gov
Janet Brown, Director, Div. of Env Remediation, Bureau C	518-402-9662; janet.brown@dec.ny.gov
Sara Bogardus, NYSDOH Project Manager	518-402-7860; sara.bogardus@health.ny.gov

* Note: Notification contacts are subject to change and will be updated as necessary.

2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

2.1 Site Location and Description

The Site is located in Greenburgh, Westchester County, New York and is identified as a portion of Section 8.50 Block 28 and Lot 9 on the Westchester County Tax Map (see Figure 1). The Site is an approximately 5.54-acre area and is bounded by Dobbs Ferry Road to the north, a portion of the property not designated as the Site and the Westchester Greenhouses to the south, a utility right-of-way to the east, and Westchester Golf Range to the west (see Figure 2 – Site Layout Map). The boundaries of the Site are more fully described in Appendix C –Environmental Easement. The owner(s) of the Site parcel(s) at the time of issuance of this SMP is/are:

CRP/CSH Greenburgh L.L.C.

2.2 Physical Setting

2.2.1 Land Use

The Site consists of the following: a senior living facility, parking areas, and open land. The Site is zoned residential use and contains a senior living facility.

The properties adjoining the Site and in the neighborhood surrounding the Site primarily include mostly commercial, undeveloped land, and some residential use properties. The properties immediately south of the Site include the southern undeveloped portion of the property and a commercial property (Hartsdale Greenhouses); the properties immediately north of the Site include a commercial property (Elmwood County Club); the properties immediately east of the Site include utility properties followed by a residence; and the properties to the west of the Site include a commercial property (Game on Golf Center).

2.2.2 Geology

According to the Geologic Map of New York (1995), the bedrock geology at the Site consists of Fordham Gneiss bedrock, with occurrences of quartz-feldspar lenses. The

Surficial Geologic Map of New York (1989) indicates the overburden materials consist of glacial till, which can range from approximately 1 to 50 meters thick.

During the environmental evaluations, site-specific near surface geologic conditions were comprised of historic fill material underlain by unconsolidated sediments. Within portions of the Site, a historic peat layer was present between the historic fill and underlying sediments. The thickness of the historic fill layer, and therefore the depth of the peat, increased toward the southern portion of the Site. A geologic cross section is shown in Figure 3. Site specific boring logs are provided in Appendix D.

2.2.3 Hydrogeology

The groundwater at the Site is approximately 4-7 feet below ground level. Groundwater flow at the Site flows towards the southeast. Groundwater flow direction appears to be influenced by the presence of historic fill material, which dips in depth toward the south and southeast. Some localized groundwater flow variations are likely.

A groundwater contour map is shown in Figure 4. Groundwater elevation data is provided in Table 2. Groundwater monitoring well construction logs are provided in Appendix D.

2.3 Investigation and Remedial History

The following narrative provides a remedial history timeline and a brief summary of the available project records to document key investigative and remedial milestones for the Site. Full titles for each of the reports referenced below are provided in Section 8.0 - References.

- S*ubsurface Investigation and Delineation of Oil Contamination*, prepared by Clean Solutions, Inc., dated May 29, 2001;
- *Phase I Environmental Site Assessment*, prepared by Woodard and Curran, dated October 4, 2011;
- *Spill Investigation Report*, prepared by Woodard and Curran, dated October 31, 2012;

- *Site Investigation Report*, prepared by Woodard and Curran, dated February 22, 2013;
- *Supplemental Spill Investigation Report*, prepared by Woodard and Curran, dated May 2015;
- *Brownfield Cleanup Program Application*, prepared by Woodard and Curran, dated August 17, 2015; and
- *Report of Phase I and II Environmental Site Assessment*, GTA, March 9, 2016.
- *Remedial Action Work Plan,* GTA, April 2016 Revised June 2017
- *Remedial Investigation Report,* GTA, August 2016
- *Final Engineering Report,* GTA, March 2020

Historic fill containing construction/demolition debris and wood is present beneath the majority of the Site up to 20 feet bgs. Sampling of the fill identified polycyclic aromatic hydrocarbons (PAHs) and other contaminants above the NYSDEC Restricted Residential SCOs. Groundwater samples obtained from the Site identified PAHs and metals that are likely related to the historic fill. The historic fill has been remediated through establishment of a cover system during construction. The cover system consists of Site improvements constructed as part of the senior living facility.

A 2001 discharge from a fuel line associated with a heating oil UST, and discharges from other gasoline, diesel, and heating oil USTs, impacted soil and groundwater on the central portion of the Site. Five USTs were removed during remediation. Grossly impacted soil was remediated in 2018 and 2019 to remove the source of ongoing impacts to groundwater. Free product was removed from the surface of groundwater in the open remedial excavations. Dissolved petroleum groundwater contamination remains in the spill area; however, no free product has been encountered following the remediation. The remaining dissolved petroleum groundwater contamination represents a potential vapor intrusion source; therefore, an active vapor mitigation system has been installed and operating.

2.4 Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site as listed in the Decision Document dated August 2017 are as follows:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of ground or surface water contamination.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a Site.

2.5 Remaining Contamination

2.5.1 Soil

PAHs and metals remain in soil above the Restricted Residential SCOs. The concentrations of PAHs detected appear typical of historic fill. The historic fill extends beneath the majority of the Site up to 20 feet below ground surface (bgs). Contaminants detected above the SCOs that appear to be related to historic fill include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, arsenic, barium, lead, mercury, and selenium.

The VOCs acetone and 2-butanone were also detected marginally above the Protection of Groundwater SCOs. These contaminants do not appear to be associated with prior releases at the Site.

No other contaminants remain on Site in soil above applicable criteria.

Contaminated historic fill should be anticipated to be encountered beneath concrete or asphalt covered surfaces, or below the two-foot soil cover system constructed in pervious areas of the Site. Geotextile fabric was placed beneath the two-foot soil cover system as a demarcation layer. Soil encountered beneath the geotextile fabric should be considered contaminated. In addition, soil present when excavating utilities should be considered contaminated unless testing shows otherwise.

Table 3 and Figure 5 summarize the results of all soil samples collected that exceed the Unrestricted Use SCOs, Protection of Groundwater SCOs, and the Restricted Residential Use SCOs at the Site after completion of remedial action.

2.5.2 Groundwater

Groundwater monitoring performed following remediation did not identify the presence of free product or light non-aqueous phase liquid (LNAPL). Groundwater samples obtained following remediation identified VOCs, SVOCs, and metals above the SCGs. The primary contaminants of concern in groundwater are related to the presence of historic fill, including phenol, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, antimony, arsenic, barium, cadmium, total chromium, copper, iron, lead, magnesium, manganese, mercury, sodium, thallium, zinc, and selenium. Naphthalene, toluene, and p-isopropyltoluene have also periodically been detected above the SCGs. Groundwater is present between 4 and 8 feet bgs. It should be presumed that contaminants exist beneath the entire Site based on the Site-wide presence of historic fill. Table 4 and Figure 6 summarize the results of all samples of groundwater that exceed the SCGs after completion of the remedial action. It is noted that groundwater samples obtained to date for metals analysis were not filtered. This SMP includes a recommendation to include filtered and unfiltered samples for metals analysis during future sampling events.

No other contaminants remain on Site in groundwater above applicable criteria.

Some of the contaminants of concern detected in groundwater following remediation are higher than concentrations detected prior to completing the active petroleum remediation. These compounds appear related to the presence of historic fill. Remediation of the petroleum impacts included excavation below the water table (without dewatering), and therefore disturbance of the historic fill. It appears the elevated concentrations detected in groundwater following remediation may be related to this disturbance of historic fill below the water table. Accordingly, the groundwater concentrations are anticipated to decrease over time since construction activities are complete.

2.5.3 Soil Vapor

GTA understands that due to the historic contamination on the Site there is a potential for soil vapor to migrate into the building. Accordingly, a sub-slab depressurization system has been installed under the building. The sub-slab depressurization system is an active system.

3.0 INSTITUTIONAL AND ENGINEERING CONTROL PLAN

3.1 General

Since remaining contamination exists at the Site, Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment. This IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the Site. The IC/EC Plan is one component of the SMP and is subject to revision by the NYSDEC.

This plan provides:

- A description of all IC/ECs on the Site;
- The basic implementation and intended role of each IC/EC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the controls to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the Excavation Work Plan (EWP) (as provided in Appendix B) for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the Site; and
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the Site remedy, as determined by the NYSDEC.

3.2 Institutional Controls

A series of ICs is required by the RAWP and SMP to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the Site to restricted residential uses only. Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under this SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The IC boundaries are shown on Figure 7. These ICs are:

- The property may be used for restricted residential use;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Westchester County 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.
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- 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 potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on Figure 7, and any potential impacts that are identified must be monitored or mitigated; and

- Vegetable gardens and farming on the Site are prohibited.

3.3 Engineering Controls

3.3.1 Cover System

Exposure to remaining contamination at the Site is prevented by a cover system placed over the Site. This cover system is comprised of a minimum of 24 inches of soil meeting the Residential and Protection of Groundwater SCOs, asphalt pavement, pavers, concrete-covered sidewalks, and concrete building slabs. Figure 8 presents the location of the cover system and applicable demarcation layers. The Excavation Work Plan (EWP) provided in Appendix B outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection of this cover are provided in the Monitoring and Sampling Plan included in Section 4.0 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and associated Community Air Monitoring Plan (CAMP) prepared for the Site and provided in Appendix G.

3.3.2 Sub-slab Depressurization Systems

Following active soil remediation, an active sub-slab depressurization system (SSDS) was installed and consists of ventilation piping placed within sub-slab gravel, an exhaust fan, and vapor barrier placed above the gravel and sealed to the footing/foundation walls. Pipe and conduit penetrations of the floor slab were sealed. The vapor barrier was smoke-tested, and any leaks were repaired in accordance with the manufacturer's instructions. The exhaust fans are equipped with signal lights that alert the building managers of fan outages. These signal lights are located proximate to the vent stacks with fans and will be visible from commonly used interior areas.

Procedures for operating and maintaining the active sub-slab depressurization system are documented in the Operation and Maintenance Plan (Section 5.0 of this SMP).

As built drawings, signed and sealed by a professional engineer, are included in Appendix I – Operations and Maintenance Manual. Figure 8 shows the location of the ECs for the Site.

3.3.3 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.4 of NYSDEC DER-10.

3.3.3.1 - Cover System

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with this SMP in perpetuity until such time that the easement is extinguished or amended by a release provided by the NYSDEC, and filed with the County of Westchester.

3.3.3.2 - Sub-Slab Depressurization System

The active SSDS will not be discontinued unless prior written approval is granted by the NYSDEC and the NYSDOH. In the event that monitoring data indicates that the SSDS may no longer be required, a proposal to discontinue the SSDS will be submitted by the remedial party to the NYSDEC and NYSDOH.

3.3.3.3 - Monitoring Wells associated with Monitored Natural Attenuation

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC with consultation with NYSDOH, until residual groundwater concentrations are found to be consistently below ambient water quality standards, the Site SCGs, are demonstrating a decreasing trend, or have become asymptotic at an acceptable level over an extended period. In the event that monitoring data indicates that monitoring for natural attenuation may no longer be required, a proposal to discontinue the system will be submitted by the remedial party. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels

become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

4.0 MONITORING AND SAMPLING PLAN

4.1 General

This Monitoring and Sampling Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Monitoring and Sampling Plan may only be revised with the approval of the NYSDEC. Details regarding the sampling procedures, data quality usability objectives, analytical methods, etc. for all samples collected as part of Site management for the Site are included in the Quality Assurance Project Plan provided in Appendix F.

This Monitoring and Sampling Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance (SCGs), particularly groundwater standards and Part 375 SCOs for soil; and
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment;

To adequately address these issues, this Monitoring and Sampling Plan provides information on:

- Sampling locations, protocol and frequency;
- Information on all designed monitoring systems;
- Analytical sampling program requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and

- Annual inspection and periodic certification.

Reporting requirements are provided in Section 7.0 of this SMP.

4.2 Site – wide Inspection

Site-wide inspections will be performed on a quarterly basis until the Certificate of Completion is issued, then on an annually basis. Modification to the frequency or duration of the inspections will require approval from the NYSDEC. Site-wide inspections will also be performed after all severe weather conditions that may affect ECs or monitoring devices. During these inspections, an inspection form will be completed as provided in Appendix H – Site Management Forms. The form will compile sufficient information to 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; and
- Confirm that Site records are up to date.

Inspections of all remedial components installed at the Site will be conducted. A comprehensive Site-wide inspection will be conducted and documented according to the SMP schedule, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria; and

- If Site records are complete and up to date; and

Reporting requirements are outlined in Section 7.0 of this plan.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, verbal notice to the NYSDEC must be given by noon of the following day. In addition, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the Site by a qualified environmental professional, as determined by the NYSDEC. Written confirmation must be provided to the NYSDEC within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

4.3 Post-Remediation Media Monitoring and Sampling

Samples shall be collected from the monitoring wells on a routine basis. It is anticipated that the quarterly groundwater sampling will resume following approval of this Site Management Plan, anticipated in May 2020. Sampling locations, required analytical parameters and schedule are provided in Table 5 – Remedial System Sampling Requirements and Schedule below. Modification to the frequency or sampling requirements will require approval from the NYSDEC.

Table 5 – Post Remediation Sampling Requirements and Schedule

Sampling Location	Analytical Parameters				Schedule
	VOCs (EPA Method 624)	TAL Metals (EPA Method 6010B) Filtered	TAL Metals (EPA Method 6010B) Unfiltered	SVOCs (EPA Method 8270)	
Monitoring Well #101	X	X	X	X	Quarterly
Monitoring Well #102	X	X	X	X	Quarterly
Monitoring Well #103	X	X	X	X	Quarterly
Monitoring Well #104	X	X	X	X	Quarterly
Monitoring Well #105	X	X	X	X	Quarterly
Monitoring Well #106	X	X	X	X	Quarterly
Monitoring Well #107	X	X	X	X	Quarterly
Monitoring Well #108	X	X	X	X	Quarterly
Monitoring Well #109	X	X	X	X	Quarterly
Monitoring Well #110	X	X	X	X	Quarterly
Monitoring Well #111	X	X	X	X	Quarterly

Detailed sample collection and analytical procedures and protocols are provided in Appendix E – Field Sampling Plan and Appendix F – Quality Assurance Project Plan.

4.3.1 Soil Sampling

Based on the completed remediation, no soil sampling is required under this SMP.

4.3.2 Groundwater Sampling

Groundwater monitoring will be performed quarterly to assess the performance of the remedy. Modification to the frequency or sampling requirements will require approval from the NYSDEC.

As outlined in the NYSDEC's DER-10 in Chapter 3 Section 3.3, the viability of monitored natural attenuation (MNA) will be evaluated as a remedial approach for groundwater at the Site. Appropriate hydrogeologic and geochemical data will be collected for the Site and submitted to NYSDEC.

The network of monitoring wells has been installed to monitor upgradient, on-site and downgradient groundwater conditions at the Site. The network of on-site wells has been designed based on the following criteria:

Table 6 summarizes the wells identification number, as well as the purpose, location, depths, diameter and screened intervals of the wells. As part of the groundwater monitoring, 11 on-site monitoring wells, which include two upgradient wells and four downgradient wells, are sampled to evaluate the effectiveness of the remedial system.

Table 6 – Monitoring Well Construction Details

Monitoring Well ID	Well Location	Coordinates (longitude/ latitude)	Well Diameter (inches)	Elevation (above mean sea level)			
				Casing	Surface	Screen Top	Screen Bottom
MW-101	Gasoline excavation	41.0339005° N, -73.8224331° W	2	325.37	324.08	321.37	311.37
MW-102	Downgradient of gasoline excavation	41.0337819° N, -73.8221362° W	2	323.93	322.01	320.93	310.93
MW-103	Upgradient of petroleum excavation	41.0340831° N, -73.8232418° W	2	324.05	321.44	321.05	311.05
MW-104	Upgradient of petroleum excavation	41.0332989° N, -73.8231152° W	2	324.04	321.51	321.04	311.04
MW-105	Petroleum excavation	41.0333720° N, -73.8226352° W	2	323.94	321.34	320.94	310.94
MW-106	Downgradient of petroleum excavation	41.0332695° N, -73.8222268° W	2	323.44	320.66	321.44	311.44
MW-107	Downgradient of petroleum excavation	41.0330368° N, -73.8225507° W	2	323.71	320.51	321.71	311.71
MW-108	Petroleum excavation	41.0332156° N, -73.8229851° W	2	323.62	321.26	320.26	310.26
MW-109	Downgradient of petroleum excavation	41.0331668° N, -73.8224713° W	2	323.35	320.47	321.35	311.35
MW-110	Diesel excavation	41.0340247° N, -73.8229418° W	2	323.95	323.50	319.95	309.95
MW-111	Historic Fill	41.0346833° N, -73.8222973° W	2	326.63	326.08	321.63	311.63

Monitoring well construction logs are included in Appendix D of this document.

If biofouling or silt accumulation occurs in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally,

monitoring wells will be properly decommissioned and replaced, if an event renders the wells unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

The NYSDEC will be notified prior to any repair or decommissioning of any monitoring well for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent Periodic Review Report. Well decommissioning without replacement will be done only with the prior approval of the NYSDEC. Well abandonment will be performed in accordance with NYSDEC's guidance entitled "CP-43: Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be replaced in kind in the nearest available location, unless otherwise approved by the NYSDEC.

The sampling frequency may only be modified with the approval of the NYSDEC. This SMP will be modified to reflect changes in sampling plans approved by the NYSDEC.

Deliverables for the groundwater monitoring program are specified in Section 7.0 – Reporting Requirements.

4.3.3 Vapor Intrusion Sampling

The SSDS has been installed and no periodic vapor intrusion sampling is required. The long-term need for the SSDS may be evaluated in the future through testing of contaminant levels in sub-slab soil gas or other vapor intrusion evaluation methodologies. Future proposals to terminate or modify the SSDS (e.g., switching to a passive system) will be submitted to the NYSDEC for approval.

4.3.4 Monitoring and Sampling Protocol

All sampling activities will be recorded in a field book and associated sampling log as provided in Appendix H - Site Management Forms. Other observations (e.g., groundwater monitoring well integrity, etc.) will be noted on the sampling log. The sampling log will serve as the inspection form for the monitoring network. Additional detail regarding monitoring and sampling protocols are provided in the site-specific Field Sampling Plan provided as Appendix E of this document.

5.0 OPERATION AND MAINTENANCE PLAN

5.1 General

This Operation and Maintenance Plan provides a brief description of the measures necessary to operate, monitor and maintain the mechanical components of the remedy selected for the Site. This Operation and Maintenance Plan:

- Includes the procedures necessary to allow individuals unfamiliar with the Site to operate and maintain the sub-slab depressurization systems;
- Will be updated periodically to reflect changes in Site conditions or the manner in which the sub-slab depressurization systems are operated and maintained.

Further detail regarding the Operation and Maintenance of the sub-slab depressurization system is provided in Appendix I - Operation and Maintenance Manual. A copy of this Operation and Maintenance Manual, along with the complete SMP, is to be maintained at the Site. This Operation and Maintenance Plan is not to be used as a stand-alone document, but as a component document of this SMP.

5.2 Operation and Maintenance of Sub-Slab Depressurization System

The following sections provide a description of the operations and maintenance of the sub-slab depressurization system. Cut-sheets and as-built drawings for sub-slab depressurization system are provided in Appendix I - Operations and Maintenance Manual.

5.2.1 System Start-Up and Testing

Following active soil remediation, an active SSDS was installed and consists of ventilation piping placed within sub-slab gravel, exhaust fans, and a vapor barrier placed above the gravel. Pipe and conduit penetrations of the floor slab were sealed. The vapor barrier was smoke-tested, and any leaks were repaired in accordance with the manufacturer's instructions. The system was installed as shown on the design drawings included in Appendix I. During initial startup, the vent risers and sub-slab differential pressures were tested using a micro-manometer. The pressure testing results are listed below.

Testing Location	Location ID	Vacuum (“WC)
Riser with fan, in stairwell	AVR1	-1.09
Riser with fan, in stairwell	AVR2	-1.08
Riser without fan, access door near elevator	VR3	No fan
Riser with fan, access door in hallway	AVR4	-1.02
Riser without fan, in electrical closet	VR5	No fan
Sub-slab outside Room 109	1	-0.008
Sub-slab in closet of Room 104	2	-0.009
Sub-slab outside Room 112	3	-0.005
Sub-slab in Room 126	4	-0.007
Sub-slab in Room 122	5	-0.01
Sub-slab in kitchen	6	-0.009
Sub-slab in Office 1027	7	-0.015
Sub-slab in Construction Office	8	-0.015
Sub-slab in Lobby	9	-0.014
Sub-slab in electrical room	10	-0.006

The system testing described above will be conducted if, in the course of the sub-slab depressurization system lifetime, the system goes down, significant changes are made to the system, the system must be restarted, or there is a change in building use.

5.2.2 Routine System Operation and Maintenance

Routine maintenance shall be performed every 12 months following commissioning of the vapor mitigation system, and will include the following activities:

a. a visual inspection of the complete system (e.g., vent fan, piping, warning device or indicator, labeling on systems, manometer inspection, etc.),

b. identification of breaches in the slab created by building settlement and/or maintenance, and

c. inspection of the exhaust or discharge point to verify no air intakes have been located nearby.

The vent fans will need to be replaced as they reach the end of their expected life expectancy, or if they fail during normal operation.

If significant changes are made to the system or when the system's performance is unacceptable, the system may need to be redesigned and restarted as described in Section 5.2.1.

In addition to the routine OM&M activities described here, a copy of the SMP and information packages explaining the system’s operation, maintenance, and monitoring will be made available to the building owner and tenants. Therefore, at any time during the system's operation, the building's owner or tenants may check that the system is operating properly.

5.2.3 System Monitoring Devices and Alarms

The sub-slab depressurization system has a warning device to indicate that the fans are not operating properly. The exhaust fans are equipped with signal lights that alert the building managers of fan outages. These signal lights are located proximate to the vent stacks with fans and will be visible from commonly used interior areas. The warning device signals that the fan(s) is not operational and will require maintenance or replacement. In the case of a system shutdown or restart, please refer to Section 5.2.1.

6.0 PERIODIC ASSESSMENTS/EVALUATIONS

6.1 Climate Change Vulnerability Assessment

Increases in both the severity and frequency of storms/weather events, an increase in sea level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuation, resulting from global climactic change and instability, have the potential to significantly impact the performance, effectiveness and protectiveness of a given Site and associated remedial systems. Vulnerability assessments provide information so that the Site and associated remedial systems are prepared for the impacts of the increasing frequency and intensity of severe storms/weather events and associated flooding.

This section provides a summary of vulnerability assessments that will be conducted for the Site during periodic assessments, and briefly summarizes the vulnerability of the Site and/or engineering controls to severe storms/weather events and associated flooding.

This assessment included evaluation of the following potential vulnerabilities, which should be reassessed during periodic reviews:

- Flood Plain: The Site is not within a flood plain, low-lying or low-groundwater recharge area.
- Site Drainage and Storm Water Management: A storm water management system was installed as part of the redevelopment of the Site; therefore, this system is not anticipated to be vulnerable to climate change.
- Erosion: The Site redevelopment was designed to prevent erosion during periods of severe rain events.
- High Wind: The Site is not anticipated to be susceptible to damage from high winds.
- Electricity: The SSDS is vulnerable to power outages; however, the Site (including the SSDS) is serviced by an emergency generator.
- Spill/Contaminant Release: The Site and remedial system is not susceptible to a spill or other contaminant release due to storm-related damage caused by flooding, erosion, high winds, loss of power etc.

6.2 Green Remediation Evaluation

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including Site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any implemented green technology. This section of the SMP provides a summary of any green remediation evaluations to be completed for the Site during Site management, and as reported in the Periodic Review Report (PRR).

The following were considered at the Site:

- Waste Generation: The long-term remediation of the Site is not anticipated to generate significant quantities of wastes.
- Energy usage: The size of the fans incorporated into the SSDS were selected to be appropriate for the size and type of building, while reducing the amount of energy usage.
- Emissions: No emissions are anticipated from the remediation systems.
- Water usage: The remediation systems do not use water.
- Land and/or ecosystems: No disturbances or restoration of land and/or ecosystems was required as part of implementation/operation of the remedy.

6.2.1 Timing of Green Remediation Evaluations

For major remedial system components, green remediation evaluations and corresponding modifications will be undertaken as part of a formal Remedial System Optimization (RSO), or at any time that the Project Manager feels appropriate, e.g. during significant maintenance events or in conjunction with storm recovery activities.

Modifications resulting from green remediation evaluations will be routinely implemented and scheduled to occur during planned/routine operation and maintenance activities. Reporting of these modifications will be presented in the PRR.

6.2.2 Frequency of System Checks, Sampling and Other Periodic Activities

Transportation to and from the Site and use of consumables in relation to visiting the Site in order to conduct system checks and or collect samples and shipping samples to

a laboratory for analyses have direct and/or inherent energy costs. The schedule and/or means of these periodic activities have been prepared so that these tasks can be accomplished in a manner that does not impact remedy protectiveness but reduces expenditure of energy or resources.

6.2.3 Metrics and Reporting

As discussed in Section 7.0 and as shown in Appendix H – Site Management Forms, information on energy usage, solid waste generation, transportation and shipping, water usage and land use and ecosystems will be recorded to facilitate and document consistent implementation of green remediation during Site management and to identify corresponding benefits; a set of metrics has been developed.

6.3 Remedial System Optimization

A Remedial Site Optimization (RSO) study will be conducted any time that the NYSDEC or the remedial party requests in writing that an in-depth evaluation of the remedy is needed. An RSO may be appropriate if any of the following occur:

- The remedial actions have not met or are not expected to meet RAOs in the time frame estimated in the Decision Document;
- The management and operation of the remedial system is exceeding the estimated costs;
- The remedial system is not performing as expected or as designed;
- Previously unidentified source material may be suspected;
- Plume shift has potentially occurred;
- Site conditions change due to development, change of use, change in groundwater use, etc.;
- There is an anticipated transfer of the Site management to another remedial party or agency; and
- A new and applicable remedial technology becomes available.

An RSO will provide a critique of a Site's conceptual model, give a summary of past performance, document current cleanup practices, summarize progress made toward the Site's cleanup goals, gather additional performance or media specific data and information and provide recommendations for improvements to enhance the ability of the present system to reach RAOs or to provide a basis for changing the remedial strategy.

7.0. REPORTING REQUIREMENTS

7.1 Site Management Reports

All Site management inspection, maintenance and monitoring events will be recorded on the appropriate Site management forms provided in Appendix H. These forms are subject to NYSDEC revision.

All applicable inspection forms and other records, including media sampling data and system maintenance reports, generated for the Site during the reporting period will be provided in electronic format to the NYSDEC in accordance with the requirements of Table 7 and summarized in the Periodic Review Report.

Table 7: Schedule of Interim Monitoring/Inspection Reports

Task/Report	Reporting Frequency*
Inspection Report	Annually
Periodic Review Report	Annually, or as otherwise determined by the Department

* The frequency of events will be conducted as specified until otherwise approved by the NYSDEC.

All interim monitoring/inspections reports will include, at a minimum:

- Date of event or reporting period;
- Name, company, and position of person(s) conducting monitoring/inspection activities;
- Description of the activities performed;

- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet);

- Type of samples collected (e.g., sub-slab vapor, indoor air, outdoor air, etc);

- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.);

- Sampling results in comparison to appropriate standards/criteria;

- A figure illustrating sample type and sampling locations;

- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format);

- Any observations, conclusions, or recommendations; and

- A determination as to whether contaminant conditions have changed since the last reporting event.

Routine maintenance event reporting forms will include, at a minimum:

- Date of event;

- Name, company, and position of person(s) conducting maintenance activities;

- Description of maintenance activities performed;

- Any modifications to the system;

- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and,

- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

Non-routine maintenance event reporting forms will include, at a minimum:

- Date of event;

- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;

- Description of non-routine activities performed;

- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and

- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

Data will be reported in digital format as determined by the NYSDEC. Currently, data is to be supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link http://www.dec.ny.gov/chemical/62440.html.

7.2 Periodic Review Report

A Periodic Review Report (PRR) will be submitted to the Department beginning sixteen (16) months after the Certificate of Completion is issued. After submittal of the initial Periodic Review Report, the next PRR shall be submitted annually to the Department or at another frequency as may be required by the Department. In the event that the Site is sub divided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the Site described in Appendix E -Environmental Easement. The report will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the Site.

- Results of the required annual Site inspections and severe condition inspections, if applicable.

- All applicable Site management forms and other records generated for the Site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.

- A summary of any discharge monitoring data and/or information generated during the reporting period, with comments and conclusions.

- Data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor, etc.), which include a listing of all

compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends.

- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted in digital format as determined by the NYSDEC. Currently, data is supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link: http://www.dec.ny.gov/chemical/62440.html.

- A Site evaluation, which includes the following:

  – The compliance of the remedy with the requirements of the site-specific RAWP, ROD or Decision Document;

  – The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;

  – Any new conclusions or observations regarding Site contamination based on inspections or data generated by the Monitoring and Sampling Plan for the media being monitored;

  – Recommendations regarding any necessary changes to the remedy and/or Monitoring and Sampling Plan; and

  – Trends in contaminant levels in the affected media will be evaluated to determine if the remedy continues to be effective in achieving remedial goals as specified by the Decision Document.

  – The overall performance and effectiveness of the remedy.

7.2.1 Certification of Institutional and Engineering Controls

Following the last inspection of the reporting period, a Professional Engineer licensed to practice in New York State will prepare, and include in the Periodic Review Report, the following certification as per the requirements of NYSDEC DER-10:

"For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- *The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*

- *The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any Site management plan for this control;*
- *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;*
- *If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document;*
- *Use of the Site is compliant with the environmental easement;*
- *The engineering control systems are performing as designed and are effective;*
- *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 in this report is accurate and complete.*
- *The assumptions made in the qualitative exposure assessment remain valid.*

I certify that all information and statements in this certification form 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, [name], of [business address], am certifying as [Owner or Owner's Designated Site Representative] for the Site."

The signed certification will be included in the Periodic Review Report.

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the Site is located and the NYSDOH Bureau of Environmental Exposure Investigation. The Periodic Review Report may need to be submitted in hard-copy format, as requested by the NYSDEC project manager.

7.3 Corrective Measures Work Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Work Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Work Plan until it has been approved by the NYSDEC.

8.0 REFERENCES

- S*ubsurface Investigation and Delineation of Oil Contamination*, prepared by Clean Solutions, Inc., dated May 29, 2001;
- *Phase I Environmental Site Assessment*, prepared by Woodard and Curran, dated October 4, 2011;
- *Spill Investigation Report*, prepared by Woodard and Curran, dated October 31, 2012;
- *Site Investigation Report*, prepared by Woodard and Curran, dated February 22, 2013;
- *Supplemental Spill Investigation Report*, prepared by Woodard and Curran, dated May 2015;
- *Brownfield Cleanup Program Application*, prepared by Woodard and Curran, dated August 17, 2015; and
- *Report of Phase I and II Environmental Site Assessment*, GTA, March 9, 2016.
- *Remedial Action Work Plan*, GTA, April 2016 Revised June 2017
- *Remedial Investigation Report*, GTA, August 2016

6NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.

NYSDEC DER-10 – "Technical Guidance for Site Investigation and Remediation".

NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. June 1998 (April 2000 addendum).

Tables

TABLE 2 - GROUNDWATER ELEVATION MEASUREMENTS
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

Well	Latitude	Longitude	Casing Elevation	Depth to Water on 4/24/19	Groundwater Elevation on 4/24/19	Depth to Water on 5/22/19	Groundwater Elevation on 5/22/19
MW-101	41.0339005	-73.8224331	325.37	9.34	316.03	9.3	306.73
MW-102	41.0337819	-73.8221362	323.93	7.93	316	7.9	308.1
MW-103	41.0340831	-73.8232418	324.05	7.4	316.65	7.4	309.25
MW-104	41.0332989	-73.8231152	324.04	7.82	316.22	7.75	308.47
MW-105	41.033372	-73.8226352	323.94	7.96	315.98	7.81	308.17
MW-106	41.0332695	-73.8222268	323.44	7.52	315.92	7.9	308.02
MW-107	41.0330368	-73.8225507	323.71	7.69	316.02	7.8	308.22
MW-108	41.0332156	-73.8229851	323.62	7.55	316.07	7.73	308.34
MW-109	41.0331668	-73.8224713	323.35	7.38	315.97	7.6	308.37
MW-110	41.0340247	-73.8229418	323.95	8.02	315.93	7.86	308.07
MW-111	41.0346833	-73.8222973	326.63	9.16	317.47	9.05	308.42

TABLE 2 - GROUNDWATER ELEVATION MEASUREMENTS
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

Well	Latitude	Longitude	Casing Elevation	Depth to Water on 6/25/19	Groundwater Elevation on 6/25/19	Depth to Water on 7/30/19	Groundwater Elevation on 7/30/19
MW-101	41.0339005	-73.8224331	325.37	9.78	296.95	9.96	286.99
MW-102	41.0337819	-73.8221362	323.93	8.26	299.84	8.28	291.56
MW-103	41.0340831	-73.8232418	324.05	7.49	301.76	8.32	293.44
MW-104	41.0332989	-73.8231152	324.04	7.8	300.67	7.83	292.84
MW-105	41.033372	-73.8226352	323.94	8.13	300.04	8.18	291.86
MW-106	41.0332695	-73.8222268	323.44	7.8	300.22	8.02	292.2
MW-107	41.0330368	-73.8225507	323.71	7.98	300.24	8.1	292.14
MW-108	41.0332156	-73.8229851	323.62	7.9	300.44	8.02	292.42
MW-109	41.0331668	-73.8224713	323.35	7.65	300.72	7.78	292.94
MW-110	41.0340247	-73.8229418	323.95	7.56	300.51	7.67	292.84
MW-111	41.0346833	-73.8222973	326.63	9.36	299.06	9.68	289.38

TABLE 2 - GROUNDWATER ELEVATION MEASUREMENTS
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

Well	Latitude	Longitude	Casing Elevation	Depth to Water on 8/27/19	Groundwater Elevation on 8/27/19
MW-101	41.0339005	-73.8224331	325.37	10.05	276.94
MW-102	41.0337819	-73.8221362	323.93	8.49	283.07
MW-103	41.0340831	-73.8232418	324.05	8.63	284.81
MW-104	41.0332989	-73.8231152	324.04	7.98	284.86
MW-105	41.033372	-73.8226352	323.94	8.4	283.46
MW-106	41.0332695	-73.8222268	323.44	8.23	283.97
MW-107	41.0330368	-73.8225507	323.71	8.21	283.93
MW-108	41.0332156	-73.8229851	323.62	8.2	284.22
MW-109	41.0331668	-73.8224713	323.35	7.97	284.97
MW-110	41.0340247	-73.8229418	323.95	7.89	284.95
MW-111	41.0346833	-73.8222973	326.63	10.02	279.36

TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-B1			PE-B2			PE-B3			PE-B4			PE-B5		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822903-01			L1828506-01			L1841629-01			L1846349-01			L1850521-01		
COLLECTION DATE:				6/18/2018			7/24/2018			10/12/2018			11/12/2018			12/7/2018		
SAMPLE DEPTH (FT):				10-10.5			18-18.5			11-11.5			12-12.5			10.5-11		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS																		
Methylene chloride	NC	0.05	100	ND		0.1	ND		0.051	ND		0.015	ND		0.042	ND		0.029
1,1-Dichloroethane	NC	0.27	26	ND		0.015	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Chloroform	NC	0.37	49	ND		0.015	ND		0.015	ND		0.0046	0.0043	J	0.013	ND		0.0088
Carbon tetrachloride	NC	0.76	2.4	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
1,2-Dichloropropane	NC	NC	NC	ND		0.036	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Dibromochloromethane	NC	NC	NC	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
1,1,2-Trichloroethane	NC	NC	NC	ND		0.015	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Tetrachloroethene	NC	1.3	19	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
Chlorobenzene	NC	1.1	100	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
Trichlorofluoromethane	NC	NC	NC	ND		0.051	ND		0.041	ND		0.012	ND		0.034	ND		0.023
1,2-Dichloroethane	NC	0.02	3.1	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
1,1,1-Trichloroethane	NC	0.68	100	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
Bromodichloromethane	NC	NC	NC	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
trans-1,3-Dichloropropene	NC	NC	NC	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
cis-1,3-Dichloropropene	NC	NC	NC	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
1,3-Dichloropropene, Total	NC	NC	NC	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
1,1-Dichloropropene	NC	NC	NC	ND		0.051	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
Bromoform	NC	NC	NC	ND		0.041	ND		0.041	ND		0.012	ND		0.034	ND		0.023
1,1,2,2-Tetrachloroethane	NC	NC	NC	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
Benzene	0.06	0.06	4.8	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
Toluene	0.7	0.7	100	0.0048	J	0.015	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Ethylbenzene	1	1	41	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Chloromethane	NC	NC	NC	ND		0.051	ND		0.041	ND		0.012	ND		0.034	ND		0.023
Bromomethane	NC	NC	NC	ND		0.02	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
Vinyl chloride	NC	0.02	0.9	ND		0.02	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Chloroethane	NC	NC	NC	ND		0.02	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,1-Dichloroethene	NC	0.33	100	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
trans-1,2-Dichloroethene	NC	0.19	100	ND		0.015	ND		0.015	ND		0.0046	ND		0.013	ND		0.0088
Trichloroethene	NC	0.47	21	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
1,2-Dichlorobenzene	NC	1.1	100	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,3-Dichlorobenzene	NC	2.4	49	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,4-Dichlorobenzene	NC	1.8	13	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
Methyl tert butyl ether	0.93	0.93	100	ND		0.02	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
p/m-Xylene	0.26	NC	NC	ND		0.02	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
o-Xylene	0.26	NC	NC	ND		0.02	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Xylenes, Total	0.26	1.6	100	ND		0.02	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
cis-1,2-Dichloroethene	NC	0.25	100	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
1,2-Dichloroethene, Total	NC	NC	NC	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Dibromomethane	NC	NC	NC	ND		0.1	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
Styrene	NC	NC	NC	ND		0.02	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Dichlorodifluoromethane	NC	NC	NC	ND		0.1	ND		0.1	ND		0.031	ND		0.085	ND		0.059
Acetone	NC	0.05	100	1.2		0.1	0.32		0.1	0.48		0.031	0.38		0.085	1.5		0.061
Carbon disulfide	NC	NC	NC	ND		0.1	ND		0.1	0.014	J	0.031	ND		0.085	ND		0.061
2-Butanone	NC	0.12	100	0.19		0.1	ND		0.1	0.099		0.031	0.087		0.085	0.54		0.061
Vinyl acetate	NC	NC	NC	ND		0.1	ND		0.1	ND		0.031	ND		0.085	ND		0.059
4-Methyl-2-pentanone	NC	NC	NC	ND		0.1	ND		0.1	ND		0.031	ND		0.085	ND		0.059
1,2,3-Trichloropropane	NC	NC	NC	ND		0.1	ND		0.02	ND		0.0061	ND		0.017	ND		0.012

Notes:
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-B1			PE-B2			PE-B3			PE-B4			PE-B5		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822903-01			L1828506-01			L1841629-01			L1846349-01			L1850521-01		
COLLECTION DATE:				6/18/2018			7/24/2018			10/12/2018			11/12/2018			12/7/2018		
SAMPLE DEPTH (FT):				10-10.5			18-18.5			11-11.5			12-12.5			10.5-11		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Hexanone	NC	NC	NC	ND		0.1	ND		0.1	ND		0.031	ND		0.085	ND		0.059
Bromochloromethane	NC	NC	NC	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
2,2-Dichloropropane	NC	NC	NC	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,2-Dibromoethane	NC	NC	NC	ND		0.041	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
1,3-Dichloropropane	NC	NC	NC	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,1,1,2-Tetrachloroethane	NC	NC	NC	ND		0.01	ND		0.0051	ND		0.0015	ND		0.0042	ND		0.0029
Bromobenzene	NC	NC	NC	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
n-Butylbenzene	12	12	100	0.0072	J	0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
sec-Butylbenzene	11	11	100	0.0069	J	0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
tert-Butylbenzene	5.9	5.9	100	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
o-Chlorotoluene	NC	NC	NC	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
p-Chlorotoluene	NC	NC	NC	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,2-Dibromo-3-chloropropane	NC	NC	NC	ND		0.051	ND		0.03	ND		0.0092	ND		0.026	ND		0.018
Hexachlorobutadiene	NC	NC	NC	ND		0.051	ND		0.041	ND		0.012	ND		0.034	ND		0.023
Isopropylbenzene	2.3	NC	NC	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
p-Isopropyltoluene	10	NC	NC	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
Naphthalene	12	12	100	0.016	J	0.051	ND		0.041	ND		0.012	ND		0.034	ND		0.023
Acrylonitrile	NC	NC	NC	ND		0.1	ND		0.041	ND		0.012	ND		0.034	ND		0.023
n-Propylbenzene	3.9	3.9	100	ND		0.01	ND		0.01	ND		0.0031	ND		0.0085	ND		0.0059
1,2,3-Trichlorobenzene	NC	NC	NC	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,3,5-Trimethylbenzene	8.4	8.4	52	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,2,4-Trimethylbenzene	3.6	3.6	52	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,4-Dioxane	NC	0.1	13	ND		0.41	ND		1	ND		0.31	ND		0.85	ND		0.59
p-Diethylbenzene	NC	NC	NC	ND		0.041	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
p-Ethyltoluene	NC	NC	NC	ND		0.041	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
1,2,4,5-Tetramethylbenzene	NC	NC	NC	0.037	J	0.041	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
Ethyl ether	NC	NC	NC	ND		0.051	ND		0.02	ND		0.0061	ND		0.017	ND		0.012
trans-1,4-Dichloro-2-butene	NC	NC	NC	ND		0.051	ND		0.051	ND		0.015	ND		0.042	ND		0.029
SEMIVOLATILE ORGANICS																		
Acenaphthene	20	98	100	ND		4.8	ND		0.79	ND		0.3	ND		0.66	ND		0.49
1,2,4-Trichlorobenzene	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Hexachlorobenzene	NC	3.2	1.2	ND		3.6	ND		0.59	ND		0.22	ND		0.49	ND		0.37
Bis(2-chloroethyl)ether	NC	NC	NC	ND		5.4	ND		0.89	ND		0.34	ND		0.74	ND		0.55
2-Chloronaphthalene	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
1,2-Dichlorobenzene	NC	1.1	100	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
1,3-Dichlorobenzene	NC	2.4	49	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
1,4-Dichlorobenzene	NC	1.8	13	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
3,3'-Dichlorobenzidine	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
2,4-Dinitrotoluene	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
2,6-Dinitrotoluene	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Fluoranthene	100	1000	100	ND		3.6	ND		0.59	ND		0.22	ND		0.49	0.15	J	0.37
4-Chlorophenyl phenyl ether	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
4-Bromophenyl phenyl ether	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Bis(2-chloroisopropyl)ether	NC	NC	NC	ND		7.1	ND		1.2	ND		0.45	ND		0.99	ND		0.74
Bis(2-chloroethoxy)methane	NC	NC	NC	ND		6.4	ND		1.1	ND		0.4	ND		0.89	ND		0.66
Hexachlorobutadiene	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Hexachlorocyclopentadiene	NC	NC	NC	ND		17	ND		2.8	ND		1.1	ND		2.4	ND		1.8

Notes:
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-B1			PE-B2			PE-B3			PE-B4			PE-B5		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822903-01			L1828506-01			L1841629-01			L1846349-01			L1850521-01		
COLLECTION DATE:				6/18/2018			7/24/2018			10/12/2018			11/12/2018			12/7/2018		
SAMPLE DEPTH (FT):				10-10.5			18-18.5			11-11.5			12-12.5			10.5-11		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Hexachloroethane	NC	NC	NC	ND		4.8	ND		0.79	ND		0.3	ND		0.66	ND		0.49
Isophorone	NC	NC	NC	ND		5.4	ND		0.89	ND		0.34	ND		0.74	ND		0.55
Naphthalene	12	12	100	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Nitrobenzene	NC	NC	NC	ND		5.4	ND		0.89	ND		0.34	ND		0.74	ND		0.55
NDPA/DPA	NC	NC	NC	ND		4.8	ND		0.79	ND		0.3	ND		0.66	ND		0.49
n-Nitrosodi-n-propylamine	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Bis(2-ethylhexyl)phthalate	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Butyl benzyl phthalate	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Di-n-butylphthalate	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Di-n-octylphthalate	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Diethyl phthalate	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Dimethyl phthalate	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Benzo(a)anthracene	1	1	1	ND		3.6	ND		0.59	ND		0.22	ND		0.49	ND		0.37
Benzo(a)pyrene	1	22	1	ND		4.8	ND		0.79	ND		0.3	ND		0.66	ND		0.49
Benzo(b)fluoranthene	1	1.7	1	ND		3.6	ND		0.59	ND		0.22	ND		0.49	0.17	J	0.37
Benzo(k)fluoranthene	0.8	1.7	3.9	ND		3.6	ND		0.59	ND		0.22	ND		0.49	ND		0.37
Chrysene	1	1	3.9	ND		3.6	ND		0.59	ND		0.22	ND		0.49	0.11	J	0.37
Acenaphthylene	100	107	100	ND		4.8	ND		0.79	ND		0.3	ND		0.66	ND		0.49
Anthracene	100	1000	100	ND		3.6	ND		0.59	ND		0.22	ND		0.49	ND		0.37
Benzo(ghi)perylene	100	1000	100	ND		4.8	ND		0.79	ND		0.3	ND		0.66	0.086	J	0.49
Fluorene	30	386	100	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Phenanthrene	100	1000	100	ND		3.6	ND		0.59	ND		0.22	ND		0.49	0.093	J	0.37
Dibenzo(a,h)anthracene	0.33	1000	0.33	ND		3.6	ND		0.59	ND		0.22	ND		0.49	ND		0.37
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	ND		4.8	ND		0.79	ND		0.3	ND		0.66	0.099	J	0.49
Pyrene	100	1000	100	ND		3.6	ND		0.59	ND		0.22	ND		0.49	0.14	J	0.37
Biphenyl	NC	NC	NC	ND		14	ND		2.2	ND		0.85	ND		1.9	ND		1.4
4-Chloroaniline	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
2-Nitroaniline	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
3-Nitroaniline	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
4-Nitroaniline	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Dibenzofuran	NC	210	59	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
2-Methylnaphthalene	NC	NC	NC	ND		7.1	ND		1.2	ND		0.45	ND		0.99	ND		0.74
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Acetophenone	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
2,4,6-Trichlorophenol	NC	NC	NC	ND		3.6	ND		0.59	ND		0.22	ND		0.49	ND		0.37
p-Chloro-m-cresol	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
2-Chlorophenol	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
2,4-Dichlorophenol	NC	NC	NC	ND		5.4	ND		0.89	ND		0.34	ND		0.74	ND		0.55
2,4-Dimethylphenol	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
2-Nitrophenol	NC	NC	NC	ND		13	ND		2.1	ND		0.81	ND		1.8	ND		1.3
4-Nitrophenol	NC	NC	NC	ND		8.3	ND		1.4	ND		0.52	ND		1.2	ND		0.86
2,4-Dinitrophenol	NC	NC	NC	ND		28	ND		4.8	ND		1.8	ND		4	ND		2.9
4,6-Dinitro-o-cresol	NC	NC	NC	ND		15	ND		2.6	ND		0.97	ND		2.1	ND		1.6
Pentachlorophenol	NC	0.8	6.7	ND		4.8	ND		0.79	ND		0.3	ND		0.66	ND		0.49
Phenol	NC	0.33	100	1.7	J	6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
2-Methylphenol	NC	0.33	100	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
3-Methylphenol/4-Methylphenol	NC	0.33	100	ND		8.6	ND		1.4	ND		0.54	ND		1.2	ND		0.88
2,4,5-Trichlorophenol	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61

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TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-B1			PE-B2			PE-B3			PE-B4			PE-B5		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822903-01			L1828506-01			L1841629-01			L1846349-01			L1850521-01		
COLLECTION DATE:				6/18/2018			7/24/2018			10/12/2018			11/12/2018			12/7/2018		
SAMPLE DEPTH (FT):				10-10.5			18-18.5			11-11.5			12-12.5			10.5-11		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Benzoic Acid	NC	NC	NC	ND		19	ND		3.2	ND		1.2	ND		2.7	1	J	2
Benzyl Alcohol	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
Carbazole	NC	NC	NC	ND		6	ND		0.99	ND		0.37	ND		0.82	ND		0.61
POLYCHLORINATED BIPHENYLS (PCBs)																		
Aroclor 1016	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1221	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1232	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1242	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1248	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1254	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1260	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1262	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1268	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PCBs, Total	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PETROLEUM HYDROCARBON (TPH)																		
DROD (C9-C44)	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
PESTICIDES																		
Delta-BHC	NC	0.25	100	-		-	-		-	-		-	-		-	-		-
Lindane	NC	0.1	1.3	-		-	-		-	-		-	-		-	-		-
Alpha-BHC	NC	0.02	0.48	-		-	-		-	-		-	-		-	-		-
Beta-BHC	NC	0.09	0.36	-		-	-		-	-		-	-		-	-		-
Heptachlor	NC	0.38	2.1	-		-	-		-	-		-	-		-	-		-
Aldrin	NC	0.19	0.097	-		-	-		-	-		-	-		-	-		-
Heptachlor epoxide	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin	NC	0.06	11	-		-	-		-	-		-	-		-	-		-
Endrin aldehyde	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin ketone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dieldrin	NC	0.1	0.2	-		-	-		-	-		-	-		-	-		-
4,4'-DDD	NC	17	8.9	-		-	-		-	-		-	-		-	-		-
4,4'-DDT	NC	14	13	-		-	-		-	-		-	-		-	-		-
4,4'-DDE	NC	136	7.9	-		-	-		-	-		-	-		-	-		-
Endosulfan I	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan II	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan sulfate	NC	1000	24	-		-	-		-	-		-	-		-	-		-
Methoxychlor	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Toxaphene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
cis-Chlordane	NC	2.9	4.2	-		-	-		-	-		-	-		-	-		-
trans-Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	374		46.2	431		46.6	5340		17.3	894		38.6	6930		29.2
Beryllium, Total	NC	47	72	ND		2.31	ND		2.33	0.19	J	0.865	ND		1.93	0.497	J	1.46
Cadmium, Total	NC	7.5	4.3	ND		4.62	ND		4.66	0.605	J	1.73	ND		3.86	1.2	J	2.92
Calcium, Total	NC	NC	NC	22300		46.2	27400		46.6	7270		17.3	26800		38.6	22800		29.2
Chromium, Trivalent	NC	NC	36	-		-	-		-	-		-	-		-	-		-
Chromium, Total	NC	NC	NC	0.786	J	4.62	0.886	J	4.66	12.3		1.73	3.32	J	3.86	15		2.92
Cobalt, Total	NC	NC	NC	ND		9.25	ND		9.33	6.82		3.46	0.656	J	7.71	2.22	J	5.84

Notes:
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For samples collected in 2013, only exceedances are shown
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J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
P = The relative percent difference (RPD) between the two columns exceeds the method-specified criteria
I = The lower value for the two columns has been reported due to obvious interference
- = Not analyzed

TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-B1			PE-B2			PE-B3			PE-B4			PE-B5		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822903-01			L1828506-01			L1841629-01			L1846349-01			L1850521-01		
COLLECTION DATE:				6/18/2018			7/24/2018			10/12/2018			11/12/2018			12/7/2018		
SAMPLE DEPTH (FT):				10-10.5			18-18.5			11-11.5			12-12.5			10.5-11		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Copper, Total	NC	1720	270	4.81		4.62	3.12	J	4.66	32.9		1.73	2.51	J	3.86	51.3		2.92
Iron, Total	NC	NC	NC	2040		23.1	1350		23.3	13500		8.65	2000		19.3	4920		14.6
Lead, Total	NC	450	400	ND		23.1	1.26	J	23.3	96.6		8.65	1.62	J	19.3	82.5		14.6
Magnesium, Total	NC	NC	NC	2870		46.2	3160		46.6	4960		17.3	4340		38.6	2800		29.2
Manganese, Total	NC	2000	2000	77.2		4.62	91.8		4.66	104		1.73	125		3.86	239		2.92
Mercury, Total	NC	0.73	0.81	ND		0.378	ND		0.375	ND		0.142	ND		0.312	0.948		0.236
Nickel, Total	NC	130	310	3.01	J	11.6	1.4	J	11.6	19.7		4.32	5.32	J	9.64	11		7.3
Potassium, Total	NC	NC	NC	97	J	1160	ND		1160	753		432	121	J	964	260	J	730
Selenium, Total	NC	4	180	4.26	J	9.25	2.38	J	9.33	1.9	J	3.46	3.62	J	7.71	7.74		5.84
Silver, Total	NC	8.3	180	ND		4.62	ND		4.66	ND		1.73	ND		3.86	ND		2.92
Sodium, Total	NC	NC	NC	275	J	925	70.7	J	933	99	J	346	168	J	771	930		584
Thallium, Total	NC	NC	NC	ND		9.25	ND		9.33	ND		3.46	ND		7.71	ND		5.84
Vanadium, Total	NC	NC	NC	1.16	J	4.62	ND		4.66	15.9		1.73	3.9		3.86	30.4		2.92
Zinc, Total	NC	2480	10000	2.4	J	23.1	3.08	J	23.3	89.6		8.65	2.04	J	19.3	93.9		14.6

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CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-S1			PE-S2			PE-W1			PE-W2			PE-W3		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1846349-02			L1847489-01			L1850521-02			L1850721-01			L1851788-01		
COLLECTION DATE:				11/12/2018			11/19/2018			12/7/2018			12/10/2018			12/14/2018		
SAMPLE DEPTH (FT):				6-6.5			6-6.5			6-6.5			6-6.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS																		
Methylene chloride	NC	0.05	100	ND		0.0059	ND		0.008	ND		0.0065	ND		0.0062	ND		0.0044
1,1-Dichloroethane	NC	0.27	26	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
Chloroform	NC	0.37	49	0.00036	J	0.0018	0.00047	J	0.0024	ND		0.0019	ND		0.0019	ND		0.0013
Carbon tetrachloride	NC	0.76	2.4	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
1,2-Dichloropropane	NC	NC	NC	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
Dibromochloromethane	NC	NC	NC	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
1,1,2-Trichloroethane	NC	NC	NC	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
Tetrachloroethene	NC	1.3	19	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
Chlorobenzene	NC	1.1	100	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
Trichlorofluoromethane	NC	NC	NC	ND		0.0047	ND		0.0064	ND		0.0052	ND		0.005	ND		0.0035
1,2-Dichloroethane	NC	0.02	3.1	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
1,1,1-Trichloroethane	NC	0.68	100	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
Bromodichloromethane	NC	NC	NC	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
trans-1,3-Dichloropropene	NC	NC	NC	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
cis-1,3-Dichloropropene	NC	NC	NC	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
1,3-Dichloropropene, Total	NC	NC	NC	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
1,1-Dichloropropene	NC	NC	NC	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
Bromoform	NC	NC	NC	ND		0.0047	ND		0.0064	ND		0.0052	ND		0.005	ND		0.0035
1,1,2,2-Tetrachloroethane	NC	NC	NC	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
Benzene	0.06	0.06	4.8	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
Toluene	0.7	0.7	100	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
Ethylbenzene	1	1	41	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
Chloromethane	NC	NC	NC	ND		0.0047	ND		0.0064	ND		0.0052	ND		0.005	ND		0.0035
Bromomethane	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
Vinyl chloride	NC	0.02	0.9	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
Chloroethane	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,1-Dichloroethene	NC	0.33	100	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
trans-1,2-Dichloroethene	NC	0.19	100	ND		0.0018	ND		0.0024	ND		0.0019	ND		0.0019	ND		0.0013
Trichloroethene	NC	0.47	21	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
1,2-Dichlorobenzene	NC	1.1	100	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,3-Dichlorobenzene	NC	2.4	49	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,4-Dichlorobenzene	NC	1.8	13	ND		0.0024	0.0008	J	0.0032	ND		0.0026	ND		0.0025	ND		0.0017
Methyl tert butyl ether	0.93	0.93	100	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
p/m-Xylene	0.26	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
o-Xylene	0.26	NC	NC	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
Xylenes, Total	0.26	1.6	100	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
cis-1,2-Dichloroethene	NC	0.25	100	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
1,2-Dichloroethene, Total	NC	NC	NC	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
Dibromomethane	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
Styrene	NC	NC	NC	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
Dichlorodifluoromethane	NC	NC	NC	ND		0.012	ND		0.016	ND		0.013	ND		0.012	ND		0.0087
Acetone	NC	0.05	100	ND		0.012	ND		0.016	0.017		0.013	0.014		0.012	0.038		0.0087
Carbon disulfide	NC	NC	NC	ND		0.012	ND		0.016	ND		0.013	ND		0.012	ND		0.0087
2-Butanone	NC	0.12	100	ND		0.012	ND		0.016	ND		0.013	ND		0.012	ND		0.0087
Vinyl acetate	NC	NC	NC	ND		0.012	ND		0.016	ND		0.013	ND		0.012	ND		0.0087
4-Methyl-2-pentanone	NC	NC	NC	ND		0.012	ND		0.016	ND		0.013	ND		0.012	ND		0.0087
1,2,3-Trichloropropane	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017

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LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1846349-02			L1847489-01			L1850521-02			L1850721-01			L1851788-01		
COLLECTION DATE:				11/12/2018			11/19/2018			12/7/2018			12/10/2018			12/14/2018		
SAMPLE DEPTH (FT):				6-6.5			6-6.5			6-6.5			6-6.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Hexanone	NC	NC	NC	ND		0.012	ND		0.016	ND		0.013	ND		0.012	ND		0.0087
Bromochloromethane	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
2,2-Dichloropropane	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,2-Dibromoethane	NC	NC	NC	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
1,3-Dichloropropane	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,1,1,2-Tetrachloroethane	NC	NC	NC	ND		0.00059	ND		0.0008	ND		0.00065	ND		0.00062	ND		0.00044
Bromobenzene	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
n-Butylbenzene	12	12	100	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
sec-Butylbenzene	11	11	100	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
tert-Butylbenzene	5.9	5.9	100	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
o-Chlorotoluene	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
p-Chlorotoluene	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,2-Dibromo-3-chloropropane	NC	NC	NC	ND		0.0035	ND		0.0048	ND		0.0039	ND		0.0038	ND		0.0026
Hexachlorobutadiene	NC	NC	NC	ND		0.0047	ND		0.0064	ND		0.0052	ND		0.005	ND		0.0035
Isopropylbenzene	2.3	NC	NC	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
p-Isopropyltoluene	10	NC	NC	ND		0.0012	ND		0.0016	0.0015		0.0013	ND		0.0012	ND		0.00087
Naphthalene	12	12	100	ND		0.0047	0.0012	J	0.0064	ND		0.0052	ND		0.005	ND		0.0035
Acrylonitrile	NC	NC	NC	ND		0.0047	ND		0.0064	ND		0.0052	ND		0.005	ND		0.0035
n-Propylbenzene	3.9	3.9	100	ND		0.0012	ND		0.0016	ND		0.0013	ND		0.0012	ND		0.00087
1,2,3-Trichlorobenzene	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,3,5-Trimethylbenzene	8.4	8.4	52	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,2,4-Trimethylbenzene	3.6	3.6	52	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,4-Dioxane	NC	0.1	13	ND		0.12	ND		0.16	ND		0.13	ND		0.12	ND		0.087
p-Diethylbenzene	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
p-Ethyltoluene	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
1,2,4,5-Tetramethylbenzene	NC	NC	NC	ND		0.0024	0.00036	J	0.0032	ND		0.0026	ND		0.0025	ND		0.0017
Ethyl ether	NC	NC	NC	ND		0.0024	ND		0.0032	ND		0.0026	ND		0.0025	ND		0.0017
trans-1,4-Dichloro-2-butene	NC	NC	NC	ND		0.0059	ND		0.008	ND		0.0065	ND		0.0062	ND		0.0044
SEMIVOLATILE ORGANICS																		
Acenaphthene	20	98	100	0.061	J	0.16	0.57	J	0.88	0.22		0.17	0.11	J	0.31	0.089	J	0.16
1,2,4-Trichlorobenzene	NC	NC	NC	0.15	J	0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Hexachlorobenzene	NC	3.2	1.2	ND		0.12	ND		0.66	ND		0.13	ND		0.24	ND		0.12
Bis(2-chloroethyl)ether	NC	NC	NC	ND		0.18	ND		0.99	ND		0.19	ND		0.35	ND		0.18
2-Chloronaphthalene	NC	NC	NC	0.066	J	0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
1,2-Dichlorobenzene	NC	1.1	100	0.18	J	0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
1,3-Dichlorobenzene	NC	2.4	49	0.2		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
1,4-Dichlorobenzene	NC	1.8	13	0.16	J	0.2	0.21	J	1.1	ND		0.21	ND		0.39	ND		0.19
3,3'-Dichlorobenzidine	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
2,4-Dinitrotoluene	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
2,6-Dinitrotoluene	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Fluoranthene	100	1000	100	1		0.12	17		0.66	3		0.13	1.5		0.24	2.3		0.12
4-Chlorophenyl phenyl ether	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
4-Bromophenyl phenyl ether	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Bis(2-chloroisopropyl)ether	NC	NC	NC	ND		0.24	ND		1.3	ND		0.26	ND		0.47	ND		0.23
Bis(2-chloroethoxy)methane	NC	NC	NC	ND		0.22	ND		1.2	ND		0.23	ND		0.42	ND		0.21
Hexachlorobutadiene	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Hexachlorocyclopentadiene	NC	NC	NC	ND		0.58	ND		3.2	ND		0.61	ND		1.1	ND		0.56

Notes:
Results reported in milligrams per kilogram (mg/kg) or parts per million
Exceedances (if any) are highlighted
For samples collected in 2013, only exceedances are shown
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
P = The relative percent difference (RPD) between the two columns exceeds the method-specified criteria
I = The lower value for the two columns has been reported due to obvious interference
- = Not analyzed

TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-S1			PE-S2			PE-W1			PE-W2			PE-W3		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1846349-02			L1847489-01			L1850521-02			L1850721-01			L1851788-01		
COLLECTION DATE:				11/12/2018			11/19/2018			12/7/2018			12/10/2018			12/14/2018		
SAMPLE DEPTH (FT):				6-6.5			6-6.5			6-6.5			6-6.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Hexachloroethane	NC	NC	NC	ND		0.16	ND		0.88	ND		0.17	ND		0.31	ND		0.16
Isophorone	NC	NC	NC	ND		0.18	ND		0.99	ND		0.19	ND		0.35	ND		0.18
Naphthalene	12	12	100	0.28		0.2	0.31	J	1.1	0.11	J	0.21	ND		0.39	0.046	J	0.19
Nitrobenzene	NC	NC	NC	ND		0.18	ND		0.99	ND		0.19	ND		0.35	ND		0.18
NDPA/DPA	NC	NC	NC	ND		0.16	ND		0.88	ND		0.17	ND		0.31	ND		0.16
n-Nitrosodi-n-propylamine	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Bis(2-ethylhexyl)phthalate	NC	NC	NC	1.6		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Butyl benzyl phthalate	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Di-n-butylphthalate	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Di-n-octylphthalate	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Diethyl phthalate	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Dimethyl phthalate	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Benzo(a)anthracene	1	1	1	0.54		0.12	10		0.66	1.5		0.13	0.77		0.24	1		0.12
Benzo(a)pyrene	1	22	1	0.45		0.16	15		0.88	1.5		0.17	0.79		0.31	1.1		0.16
Benzo(b)fluoranthene	1	1.7	1	0.63		0.12	21		0.66	2.1		0.13	1		0.24	1.6		0.12
Benzo(k)fluoranthene	0.8	1.7	3.9	0.23		0.12	7.1		0.66	0.65		0.13	0.38		0.24	0.54		0.12
Chrysene	1	1	3.9	0.53		0.12	11		0.66	1.5		0.13	0.78		0.24	1.1		0.12
Acenaphthylene	100	107	100	0.15	J	0.16	2.1		0.88	0.24		0.17	0.074	J	0.31	0.21		0.16
Anthracene	100	1000	100	0.24		0.12	3.2		0.66	0.58		0.13	0.25		0.24	0.34		0.12
Benzo(ghi)perylene	100	1000	100	0.31		0.16	9.6		0.88	0.91		0.17	0.52		0.31	0.77		0.16
Fluorene	30	386	100	0.08	J	0.2	0.98	J	1.1	0.24		0.21	0.09	J	0.39	0.1	J	0.19
Phenanthrene	100	1000	100	0.62		0.12	8.7		0.66	2		0.13	0.83		0.24	1.3		0.12
Dibenzo(a,h)anthracene	0.33	1000	0.33	0.079	J	0.12	2.5		0.66	0.23		0.13	0.14	J	0.24	0.19		0.12
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	0.34		0.16	11		0.88	1		0.17	0.52		0.31	0.87		0.16
Pyrene	100	1000	100	0.99		0.12	20		0.66	2.6		0.13	1.3		0.24	1.9		0.12
Biphenyl	NC	NC	NC	ND		0.46	ND		2.5	ND		0.49	ND		0.89	ND		0.44
4-Chloroaniline	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
2-Nitroaniline	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
3-Nitroaniline	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
4-Nitroaniline	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Dibenzofuran	NC	210	59	0.062	J	0.2	0.48	J	1.1	0.11	J	0.21	ND		0.39	0.058	J	0.19
2-Methylnaphthalene	NC	NC	NC	0.051	J	0.24	0.16	J	1.3	0.043	J	0.26	ND		0.47	0.025	J	0.23
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Acetophenone	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
2,4,6-Trichlorophenol	NC	NC	NC	ND		0.12	ND		0.66	ND		0.13	ND		0.24	ND		0.12
p-Chloro-m-cresol	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
2-Chlorophenol	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
2,4-Dichlorophenol	NC	NC	NC	ND		0.18	ND		0.99	ND		0.19	ND		0.35	ND		0.18
2,4-Dimethylphenol	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
2-Nitrophenol	NC	NC	NC	ND		0.44	ND		2.4	ND		0.46	ND		0.85	ND		0.42
4-Nitrophenol	NC	NC	NC	ND		0.28	ND		1.5	ND		0.3	ND		0.55	ND		0.27
2,4-Dinitrophenol	NC	NC	NC	ND		0.97	ND		5.3	ND		1	ND		1.9	ND		0.93
4,6-Dinitro-o-cresol	NC	NC	NC	ND		0.53	ND		2.9	ND		0.56	ND		1	ND		0.5
Pentachlorophenol	NC	0.8	6.7	ND		0.16	ND		0.88	ND		0.17	ND		0.31	ND		0.16
Phenol	NC	0.33	100	0.15	J	0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
2-Methylphenol	NC	0.33	100	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
3-Methylphenol/4-Methylphenol	NC	0.33	100	0.067	J	0.29	ND		1.6	ND		0.31	ND		0.56	ND		0.28
2,4,5-Trichlorophenol	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19

Notes:
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-S1			PE-S2			PE-W1			PE-W2			PE-W3		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1846349-02			L1847489-01			L1850521-02			L1850721-01			L1851788-01		
COLLECTION DATE:				11/12/2018			11/19/2018			12/7/2018			12/10/2018			12/14/2018		
SAMPLE DEPTH (FT):				6-6.5			6-6.5			6-6.5			6-6.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Benzoic Acid	NC	NC	NC	ND		0.66	ND		3.6	ND		0.69	ND		1.3	ND		0.63
Benzyl Alcohol	NC	NC	NC	ND		0.2	ND		1.1	ND		0.21	ND		0.39	ND		0.19
Carbazole	NC	NC	NC	0.071	J	0.2	2.2		1.1	0.28		0.21	0.13	J	0.39	0.18	J	0.19
POLYCHLORINATED BIPHENYLS (PCBs)																		
Aroclor 1016	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1221	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1232	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1242	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1248	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1254	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1260	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1262	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1268	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PCBs, Total	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PETROLEUM HYDROCARBON (TPH)																		
DROD (C9-C44)	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
PESTICIDES																		
Delta-BHC	NC	0.25	100	-		-	-		-	-		-	-		-	-		-
Lindane	NC	0.1	1.3	-		-	-		-	-		-	-		-	-		-
Alpha-BHC	NC	0.02	0.48	-		-	-		-	-		-	-		-	-		-
Beta-BHC	NC	0.09	0.36	-		-	-		-	-		-	-		-	-		-
Heptachlor	NC	0.38	2.1	-		-	-		-	-		-	-		-	-		-
Aldrin	NC	0.19	0.097	-		-	-		-	-		-	-		-	-		-
Heptachlor epoxide	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin	NC	0.06	11	-		-	-		-	-		-	-		-	-		-
Endrin aldehyde	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin ketone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dieldrin	NC	0.1	0.2	-		-	-		-	-		-	-		-	-		-
4,4'-DDD	NC	17	8.9	-		-	-		-	-		-	-		-	-		-
4,4'-DDT	NC	14	13	-		-	-		-	-		-	-		-	-		-
4,4'-DDE	NC	136	7.9	-		-	-		-	-		-	-		-	-		-
Endosulfan I	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan II	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan sulfate	NC	1000	24	-		-	-		-	-		-	-		-	-		-
Methoxychlor	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Toxaphene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
cis-Chlordane	NC	2.9	4.2	-		-	-		-	-		-	-		-	-		-
trans-Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	8120		9.7	6010		10.7	10500		10	6140		9.44	7370		9.11
Beryllium, Total	NC	47	72	ND		0.485	ND		0.536	0.221	J	0.501	0.236	J	0.472	ND		0.456
Cadmium, Total	NC	7.5	4.3	0.679	J	0.97	0.943	J	1.07	ND		1	1.65		0.944	0.419	J	0.911
Calcium, Total	NC	NC	NC	12300		9.7	26200		10.7	7400		10	8880		9.44	26500		9.11
Chromium, Trivalent	NC	NC	36	-		-	-		-	-		-	-		-	-		-
Chromium, Total	NC	NC	NC	19.9		0.97	18.8		1.07	25.1		1	23.9		0.944	18		0.911
Cobalt, Total	NC	NC	NC	8.88		1.94	5.93		2.14	8.74		2	5.13		1.89	7.19		1.82

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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-S1			PE-S2			PE-W1			PE-W2			PE-W3		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1846349-02			L1847489-01			L1850521-02			L1850721-01			L1851788-01		
COLLECTION DATE:				11/12/2018			11/19/2018			12/7/2018			12/10/2018			12/14/2018		
SAMPLE DEPTH (FT):				6-6.5			6-6.5			6-6.5			6-6.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Copper, Total	NC	1720	270	50.1		0.97	41.1		1.07	33.2		1	47.7		0.944	45		0.911
Iron, Total	NC	NC	NC	18400		4.85	10500		5.36	17100		5.01	16400		4.72	16700		4.56
Lead, Total	NC	450	400	741		4.85	930		5.36	318		5.01	858		4.72	198		4.56
Magnesium, Total	NC	NC	NC	5140		9.7	11700		10.7	5460		10	3810		9.44	10100		9.11
Manganese, Total	NC	2000	2000	207		0.97	166		1.07	259		1	223		0.944	205		0.911
Mercury, Total	NC	0.73	0.81	0.254		0.079	0.587		0.085	0.254		0.082	0.332		0.076	0.125		0.074
Nickel, Total	NC	130	310	15.4		2.42	12.4		2.68	15.3		2.51	13.9		2.36	12.7		2.28
Potassium, Total	NC	NC	NC	2610		242	1730		268	2400		251	1220		236	1860		228
Selenium, Total	NC	4	180	0.436	J	1.94	0.686	J	2.14	0.461	J	2	0.651	J	1.89	0.583	J	1.82
Silver, Total	NC	8.3	180	ND		0.97	ND		1.07	ND		1	0.396	J	0.944	ND		0.911
Sodium, Total	NC	NC	NC	214		194	236		214	166	J	200	178	J	189	205		182
Thallium, Total	NC	NC	NC	ND		1.94	ND		2.14	ND		2	ND		1.89	ND		1.82
Vanadium, Total	NC	NC	NC	28.2		0.97	17		1.07	29.4		1	25.6		0.944	25.2		0.911
Zinc, Total	NC	2480	10000	307		4.85	300		5.36	209		5.01	986		4.72	154		4.56

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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-GAS-N			PE-GAS-E			PE-GAS-BE			PE-GAS-BW			GT2-B1		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1817461-01			L1817461-02			L1817461-05			L1817461-06			L1822494-01		
COLLECTION DATE:				5/14/2018			5/14/2018			5/14/2018			5/14/2018			6/14/2018		
SAMPLE DEPTH (FT):				5-5.5			5-5.5			9-9.5			9-9.5			9-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS																		
Methylene chloride	NC	0.05	100	ND		0.012	ND		0.012	ND		0.64	ND		0.012	ND		0.062
1,1-Dichloroethane	NC	0.27	26	ND		0.0018	ND		0.0019	ND		0.096	ND		0.0018	ND		0.0094
Chloroform	NC	0.37	49	ND		0.0018	ND		0.0019	ND		0.096	ND		0.0018	ND		0.0094
Carbon tetrachloride	NC	0.76	2.4	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
1,2-Dichloropropane	NC	NC	NC	ND		0.0042	ND		0.0044	ND		0.22	ND		0.0041	ND		0.022
Dibromochloromethane	NC	NC	NC	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
1,1,2-Trichloroethane	NC	NC	NC	ND		0.0018	ND		0.0019	ND		0.096	ND		0.0018	ND		0.0094
Tetrachloroethene	NC	1.3	19	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
Chlorobenzene	NC	1.1	100	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
Trichlorofluoromethane	NC	NC	NC	0.0006	J	0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
1,2-Dichloroethane	NC	0.02	3.1	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
1,1,1-Trichloroethane	NC	0.68	100	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
Bromodichloromethane	NC	NC	NC	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
trans-1,3-Dichloropropene	NC	NC	NC	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
cis-1,3-Dichloropropene	NC	NC	NC	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
1,3-Dichloropropene, Total	NC	NC	NC	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
1,1-Dichloropropene	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
Bromoform	NC	NC	NC	ND		0.0048	ND		0.005	ND		0.26	ND		0.0047	ND		0.025
1,1,2,2-Tetrachloroethane	NC	NC	NC	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
Benzene	0.06	0.06	4.8	0.00044	J	0.0012	0.0037		0.0012	ND		0.064	0.0028		0.0012	0.026		0.0062
Toluene	0.7	0.7	100	0.0003	J	0.0018	0.014		0.0019	ND		0.096	0.0088		0.0018	0.072		0.0094
Ethylbenzene	1	1	41	ND		0.0012	0.014		0.0012	0.012	J	0.064	0.0027		0.0012	0.011		0.0062
Chloromethane	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	0.0031	J	0.031
Bromomethane	NC	NC	NC	ND		0.0024	ND		0.0025	ND		0.13	ND		0.0024	ND		0.012
Vinyl chloride	NC	0.02	0.9	ND		0.0024	ND		0.0025	ND		0.13	ND		0.0024	ND		0.012
Chloroethane	NC	NC	NC	ND		0.0024	ND		0.0025	ND		0.13	ND		0.0024	ND		0.012
1,1-Dichloroethene	NC	0.33	100	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
trans-1,2-Dichloroethene	NC	0.19	100	ND		0.0018	ND		0.0019	ND		0.096	ND		0.0018	ND		0.0094
Trichloroethene	NC	0.47	21	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
1,2-Dichlorobenzene	NC	1.1	100	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
1,3-Dichlorobenzene	NC	2.4	49	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
1,4-Dichlorobenzene	NC	1.8	13	0.00038	J	0.0059	0.00033	J	0.0062	ND		0.32	ND		0.0059	ND		0.031
Methyl tert butyl ether	0.93	0.93	100	ND		0.0024	ND		0.0025	ND		0.13	ND		0.0024	ND		0.012
p/m-Xylene	0.26	NC	NC	ND		0.0024	0.064		0.0025	0.095	J	0.13	0.015		0.0024	0.041		0.012
o-Xylene	0.26	NC	NC	ND		0.0024	0.021		0.0025	ND		0.13	0.0059		0.0024	0.016		0.012
Xylenes, Total	0.26	1.6	100	ND		0.0024	0.085		0.0025	0.095	J	0.13	0.021		0.0024	0.057		0.012
cis-1,2-Dichloroethene	NC	0.25	100	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
1,2-Dichloroethene, Total	NC	NC	NC	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
Dibromomethane	NC	NC	NC	ND		0.012	ND		0.012	ND		0.64	ND		0.012	ND		0.062
Styrene	NC	NC	NC	ND		0.0024	0.0013	J	0.0025	ND		0.13	ND		0.0024	ND		0.012
Dichlorodifluoromethane	NC	NC	NC	ND		0.012	ND		0.012	ND		0.64	ND		0.012	ND		0.062
Acetone	NC	0.05	100	ND		0.012	0.094		0.012	ND		0.64	0.025		0.012	0.34		0.062
Carbon disulfide	NC	NC	NC	ND		0.012	0.0088	J	0.012	ND		0.64	0.0021	J	0.012	ND		0.062
2-Butanone	NC	0.12	100	ND		0.012	ND		0.012	ND		0.64	ND		0.012	ND		0.062
Vinyl acetate	NC	NC	NC	ND		0.012	ND		0.012	ND		0.64	ND		0.012	ND		0.062
4-Methyl-2-pentanone	NC	NC	NC	ND		0.012	ND		0.012	ND		0.64	ND		0.012	ND		0.062
1,2,3-Trichloropropane	NC	NC	NC	ND		0.012	ND		0.012	ND		0.64	ND		0.012	ND		0.062

Notes:
Results reported in milligrams per kilogram (mg/kg) or parts per million
Exceedances (if any) are highlighted
For samples collected in 2013, only exceedances are shown
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
P = The relative percent difference (RPD) between the two columns exceeds the method-specified criteria
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LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1817461-01			L1817461-02			L1817461-05			L1817461-06			L1822494-01		
COLLECTION DATE:				5/14/2018			5/14/2018			5/14/2018			5/14/2018			6/14/2018		
SAMPLE DEPTH (FT):				5-5.5			5-5.5			9-9.5			9-9.5			9-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Hexanone	NC	NC	NC	ND		0.012	ND		0.012	ND		0.64	ND		0.012	ND		0.062
Bromochloromethane	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
2,2-Dichloropropane	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
1,2-Dibromoethane	NC	NC	NC	ND		0.0048	ND		0.005	ND		0.26	ND		0.0047	ND		0.025
1,3-Dichloropropane	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
1,1,1,2-Tetrachloroethane	NC	NC	NC	ND		0.0012	ND		0.0012	ND		0.064	ND		0.0012	ND		0.0062
Bromobenzene	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
n-Butylbenzene	12	12	100	ND		0.0012	0.0031		0.0012	0.016	J	0.064	0.0005	J	0.0012	ND		0.0062
sec-Butylbenzene	11	11	100	ND		0.0012	0.0019		0.0012	ND		0.064	0.00064	J	0.0012	ND		0.0062
tert-Butylbenzene	5.9	5.9	100	ND		0.0059	ND		0.0062	ND		0.32	0.00062	J	0.0059	ND		0.031
o-Chlorotoluene	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
p-Chlorotoluene	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
1,2-Dibromo-3-chloropropane	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
Hexachlorobutadiene	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
Isopropylbenzene	2.3	NC	NC	ND		0.0012	0.0027		0.0012	0.039	J	0.064	0.00067	J	0.0012	0.0016	J	0.0062
p-Isopropyltoluene	10	NC	NC	ND		0.0012	0.0022		0.0012	0.014	J	0.064	0.0004	J	0.0012	ND		0.0062
Naphthalene	12	12	100	0.00024	J	0.0059	0.016		0.0062	0.078	J	0.32	0.0051	J	0.0059	0.00093	J	0.031
Acrylonitrile	NC	NC	NC	ND		0.012	ND		0.012	ND		0.64	ND		0.012	ND		0.062
n-Propylbenzene	3.9	3.9	100	ND		0.0012	0.0097		0.0012	0.032	J	0.064	0.0018		0.0012	0.0044	J	0.0062
1,2,3-Trichlorobenzene	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
1,3,5-Trimethylbenzene	8.4	8.4	52	0.0004	J	0.0059	0.034		0.0062	0.093	J	0.32	0.0047	J	0.0059	0.0072	J	0.031
1,2,4-Trimethylbenzene	3.6	3.6	52	0.00034	J	0.0059	0.077		0.0062	0.14	J	0.32	0.012		0.0059	0.019	J	0.031
1,4-Dioxane	NC	0.1	13	ND		0.048	ND		0.05	ND		2.6	ND		0.047	ND		0.25
p-Diethylbenzene	NC	NC	NC	ND		0.0048	0.035		0.005	ND		0.26	ND		0.0047	ND		0.025
p-Ethyltoluene	NC	NC	NC	0.0005	J	0.0048	0.063		0.005	0.056	J	0.26	0.0086		0.0047	0.018	J	0.025
1,2,4,5-Tetramethylbenzene	NC	NC	NC	0.00076	J	0.0048	0.01		0.005	0.082	J	0.26	0.0068		0.0047	0.0011	J	0.025
Ethyl ether	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
trans-1,4-Dichloro-2-butene	NC	NC	NC	ND		0.0059	ND		0.0062	ND		0.32	ND		0.0059	ND		0.031
SEMIVOLATILE ORGANICS																		
Acenaphthene	20	98	100	0.19		0.15	0.16		0.15	0.37		0.16	6.5		0.84	0.36	J	1.5
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Hexachlorobenzene	NC	3.2	1.2	ND		0.12	ND		0.11	ND		0.12	ND		0.63	ND		1.1
Bis(2-chloroethyl)ether	NC	NC	NC	ND		0.17	ND		0.17	ND		0.18	ND		0.95	ND		1.7
2-Chloronaphthalene	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
1,2-Dichlorobenzene	NC	1.1	100	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
1,3-Dichlorobenzene	NC	2.4	49	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
1,4-Dichlorobenzene	NC	1.8	13	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
3,3'-Dichlorobenzidine	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
2,4-Dinitrotoluene	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
2,6-Dinitrotoluene	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Fluoranthene	100	1000	100	2.2		0.12	1.6		0.11	2.8		0.12	39		0.63	3.4		1.1
4-Chlorophenyl phenyl ether	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
4-Bromophenyl phenyl ether	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Bis(2-chloroisopropyl)ether	NC	NC	NC	ND		0.23	ND		0.22	ND		0.23	ND		1.3	ND		2.2
Bis(2-chloroethoxy)methane	NC	NC	NC	ND		0.21	ND		0.2	ND		0.21	ND		1.1	ND		2
Hexachlorobutadiene	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Hexachlorocyclopentadiene	NC	NC	NC	ND		0.55	ND		0.53	ND		0.56	ND		3	ND		5.3

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COLLECTION DATE:				5/14/2018			5/14/2018			5/14/2018			5/14/2018			6/14/2018		
SAMPLE DEPTH (FT):				5-5.5			5-5.5			9-9.5			9-9.5			9-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Hexachloroethane	NC	NC	NC	ND		0.15	ND		0.15	ND		0.16	ND		0.84	ND		1.5
Isophorone	NC	NC	NC	ND		0.17	ND		0.17	ND		0.18	ND		0.95	ND		1.7
Naphthalene	12	12	100	0.054	J	0.19	0.056	J	0.18	0.2		0.2	2		1	ND		1.9
Nitrobenzene	NC	NC	NC	ND		0.17	ND		0.17	ND		0.18	ND		0.95	ND		1.7
NDPA/DPA	NC	NC	NC	ND		0.15	ND		0.15	ND		0.16	ND		0.84	ND		1.5
n-Nitrosodi-n-propylamine	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Bis(2-ethylhexyl)phthalate	NC	NC	NC	0.17	J	0.19	0.12	J	0.18	1.8		0.2	ND		1	ND		1.9
Butyl benzyl phthalate	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Di-n-butylphthalate	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Di-n-octylphthalate	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Diethyl phthalate	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Dimethyl phthalate	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Benzo(a)anthracene	1	1	1	1.1		0.12	0.78		0.11	1.4		0.12	18		0.63	1.6		1.1
Benzo(a)pyrene	1	22	1	0.9		0.15	0.64		0.15	1.1		0.16	16		0.84	1.2	J	1.5
Benzo(b)fluoranthene	1	1.7	1	1.2		0.12	0.83		0.11	1.5		0.12	20		0.63	1.6		1.1
Benzo(k)fluoranthene	0.8	1.7	3.9	0.43		0.12	0.27		0.11	0.46		0.12	7		0.63	0.34	J	1.1
Chrysene	1	1	3.9	1		0.12	0.64		0.11	1.2		0.12	16		0.63	1.6		1.1
Acenaphthylene	100	107	100	0.14	J	0.15	0.049	J	0.15	0.13	J	0.16	0.21	J	0.84	0.34	J	1.5
Anthracene	100	1000	100	0.53		0.12	0.46		0.11	0.77		0.12	9.2		0.63	1.2		1.1
Benzo(ghi)perylene	100	1000	100	0.5		0.15	0.37		0.15	0.66		0.16	8.9		0.84	0.67	J	1.5
Fluorene	30	386	100	0.22		0.19	0.2		0.18	0.44		0.2	5.1		1	0.65	J	1.9
Phenanthrene	100	1000	100	1.4		0.12	1.4		0.11	2.4		0.12	33		0.63	4.4		1.1
Dibenzo(a,h)anthracene	0.33	1000	0.33	0.14		0.12	0.11		0.11	0.18		0.12	2.2		0.63	ND		1.1
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	0.59		0.15	0.43		0.15	0.77		0.16	9.9		0.84	0.72	J	1.5
Pyrene	100	1000	100	1.8		0.12	1.3		0.11	2.4		0.12	32		0.63	3.6		1.1
Biphenyl	NC	NC	NC	ND		0.44	ND		0.42	ND		0.44	0.26	J	2.4	ND		4.2
4-Chloroaniline	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
2-Nitroaniline	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
3-Nitroaniline	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
4-Nitroaniline	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Dibenzofuran	NC	210	59	0.11	J	0.19	0.092	J	0.18	0.2		0.2	2.8		1	0.22	J	1.9
2-Methylnaphthalene	NC	NC	NC	0.041	J	0.23	0.037	J	0.22	0.12	J	0.23	0.97	J	1.3	ND		2.2
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Acetophenone	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
2,4,6-Trichlorophenol	NC	NC	NC	ND		0.12	ND		0.11	ND		0.12	ND		0.63	ND		1.1
p-Chloro-m-cresol	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
2-Chlorophenol	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
2,4-Dichlorophenol	NC	NC	NC	ND		0.17	ND		0.17	ND		0.18	ND		0.95	ND		1.7
2,4-Dimethylphenol	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
2-Nitrophenol	NC	NC	NC	ND		0.42	ND		0.4	ND		0.42	ND		2.3	ND		4
4-Nitrophenol	NC	NC	NC	ND		0.27	ND		0.26	ND		0.27	ND		1.5	ND		2.6
2,4-Dinitrophenol	NC	NC	NC	ND		0.93	ND		0.88	ND		0.94	ND		5	ND		8.9
4,6-Dinitro-o-cresol	NC	NC	NC	ND		0.5	ND		0.48	ND		0.51	ND		2.7	ND		4.8
Pentachlorophenol	NC	0.8	6.7	ND		0.15	ND		0.15	ND		0.16	ND		0.84	ND		1.5
Phenol	NC	0.33	100	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
2-Methylphenol	NC	0.33	100	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
3-Methylphenol/4-Methylphenol	NC	0.33	100	ND		0.28	ND		0.26	ND		0.28	ND		1.5	ND		2.7
2,4,5-Trichlorophenol	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9

Notes:
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ND = Not Detected above laboratory's reporting limit (RL)
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-GAS-N			PE-GAS-E			PE-GAS-BE			PE-GAS-BW			GT2-B1		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1817461-01			L1817461-02			L1817461-05			L1817461-06			L1822494-01		
COLLECTION DATE:				5/14/2018			5/14/2018			5/14/2018			5/14/2018			6/14/2018		
SAMPLE DEPTH (FT):				5-5.5			5-5.5			9-9.5			9-9.5			9-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Benzoic Acid	NC	NC	NC	ND		0.63	ND		0.6	ND		0.63	ND		3.4	ND		6
Benzyl Alcohol	NC	NC	NC	ND		0.19	ND		0.18	ND		0.2	ND		1	ND		1.9
Carbazole	NC	NC	NC	0.19		0.19	0.2		0.18	0.28		0.2	4		1	0.18	J	1.9
POLYCHLORINATED BIPHENYLS (PCBs)																		
Aroclor 1016	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1221	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1232	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1242	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1248	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1254	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1260	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1262	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1268	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PCBs, Total	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PETROLEUM HYDROCARBON (TPH)																		
DROD (C9-C44)	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
PESTICIDES																		
Delta-BHC	NC	0.25	100	-		-	-		-	-		-	-		-	-		-
Lindane	NC	0.1	1.3	-		-	-		-	-		-	-		-	-		-
Alpha-BHC	NC	0.02	0.48	-		-	-		-	-		-	-		-	-		-
Beta-BHC	NC	0.09	0.36	-		-	-		-	-		-	-		-	-		-
Heptachlor	NC	0.38	2.1	-		-	-		-	-		-	-		-	-		-
Aldrin	NC	0.19	0.097	-		-	-		-	-		-	-		-	-		-
Heptachlor epoxide	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin	NC	0.06	11	-		-	-		-	-		-	-		-	-		-
Endrin aldehyde	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin ketone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dieldrin	NC	0.1	0.2	-		-	-		-	-		-	-		-	-		-
4,4'-DDD	NC	17	8.9	-		-	-		-	-		-	-		-	-		-
4,4'-DDT	NC	14	13	-		-	-		-	-		-	-		-	-		-
4,4'-DDE	NC	136	7.9	-		-	-		-	-		-	-		-	-		-
Endosulfan I	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan II	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan sulfate	NC	1000	24	-		-	-		-	-		-	-		-	-		-
Methoxychlor	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Toxaphene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
cis-Chlordane	NC	2.9	4.2	-		-	-		-	-		-	-		-	-		-
trans-Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	6830		8.91	7780		8.68	8120		9.32	5190		9.59	1740		30.2
Beryllium, Total	NC	47	72	0.178	J	0.446	0.234	J	0.434	0.214	J	0.466	0.259	J	0.48	ND		1.51
Cadmium, Total	NC	7.5	4.3	0.392	J	0.891	0.382	J	0.868	0.391	J	0.932	1.13		0.959	ND		3.02
Calcium, Total	NC	NC	NC	15700		8.91	16800		8.68	19700		9.32	9840		9.59	20600		30.2
Chromium, Trivalent	NC	NC	36	-		-	-		-	-		-	-		-	-		-
Chromium, Total	NC	NC	NC	13.4		0.891	13.2		0.868	20.4		0.932	26.9		0.959	2.74	J	3.02
Cobalt, Total	NC	NC	NC	6.66		1.78	7.13		1.74	7.43		1.86	7.81		1.92	0.694	J	6.03

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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			PE-GAS-N			PE-GAS-E			PE-GAS-BE			PE-GAS-BW			GT2-B1		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1817461-01			L1817461-02			L1817461-05			L1817461-06			L1822494-01		
COLLECTION DATE:				5/14/2018			5/14/2018			5/14/2018			5/14/2018			6/14/2018		
SAMPLE DEPTH (FT):				5-5.5			5-5.5			9-9.5			9-9.5			9-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Copper, Total	NC	1720	270	31.4		0.891	29.6		0.868	32.1		0.932	68.8		0.959	10.4		3.02
Iron, Total	NC	NC	NC	13600		4.46	16800		4.34	15800		4.66	19700		4.8	1500		15.1
Lead, Total	NC	450	400	108		4.46	82		4.34	146		4.66	247		4.8	12.1	J	15.1
Magnesium, Total	NC	NC	NC	5660		8.91	7400		8.68	11500		9.32	4450		9.59	3380		30.2
Manganese, Total	NC	2000	2000	206		0.891	414		0.868	275		0.932	395		0.959	186		3.02
Mercury, Total	NC	0.73	0.81	0.118		0.073	0.06	J	0.071	0.055	J	0.075	0.158		0.08	0.135	J	0.243
Nickel, Total	NC	130	310	11.6		2.23	13.7		2.17	13.7		2.33	18.4		2.4	2.92	J	7.54
Potassium, Total	NC	NC	NC	1670		223	1260		217	1900		233	1230		240	263	J	754
Selenium, Total	NC	4	180	0.499	J	1.78	0.642	J	1.74	0.456	J	1.86	1.18	J	1.92	3.26	J	6.03
Silver, Total	NC	8.3	180	ND		0.891	0.286	J	0.868	0.615	J	0.932	ND		0.959	ND		3.02
Sodium, Total	NC	NC	NC	179		178	96.3	J	174	108	J	186	203		192	224	J	603
Thallium, Total	NC	NC	NC	ND		1.78	ND		1.74	ND		1.86	ND		1.92	ND		6.03
Vanadium, Total	NC	NC	NC	20.1		0.891	15.6		0.868	21.6		0.932	23.5		0.959	2.74	J	3.02
Zinc, Total	NC	2480	10000	88.4		4.46	79.9		4.34	116		4.66	262		4.8	13	J	15.1

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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			GT2-B2			DT-E2			DT-B1			DT-B2			DT-E3		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822494-02			L1821027-01			L1821307-01			L1821992-01			L1825914-01		
COLLECTION DATE:				6/14/2018			6/6/2018			6/7/2018			6/12/2018			7/9/2018		
SAMPLE DEPTH (FT):				9-9.5			7-7.5			14-14.5			14-14.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS																		
Methylene chloride	NC	0.05	100	ND		0.013	ND		0.0097	ND		0.078	ND		0.035	ND		0.0058
1,1-Dichloroethane	NC	0.27	26	ND		0.002	ND		0.0014	ND		0.012	ND		0.0053	ND		0.0012
Chloroform	NC	0.37	49	ND		0.002	ND		0.0014	ND		0.012	ND		0.0053	ND		0.0017
Carbon tetrachloride	NC	0.76	2.4	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
1,2-Dichloropropane	NC	NC	NC	ND		0.0046	ND		0.0034	ND		0.027	ND		0.012	ND		0.0012
Dibromochloromethane	NC	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
1,1,2-Trichloroethane	NC	NC	NC	ND		0.002	ND		0.0014	ND		0.012	ND		0.0053	ND		0.0012
Tetrachloroethene	NC	1.3	19	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
Chlorobenzene	NC	1.1	100	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
Trichlorofluoromethane	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0046
1,2-Dichloroethane	NC	0.02	3.1	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
1,1,1-Trichloroethane	NC	0.68	100	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
Bromodichloromethane	NC	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
trans-1,3-Dichloropropene	NC	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
cis-1,3-Dichloropropene	NC	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
1,3-Dichloropropene, Total	NC	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
1,1-Dichloropropene	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.00058
Bromoform	NC	NC	NC	ND		0.0052	ND		0.0039	ND		0.031	ND		0.014	ND		0.0046
1,1,2,2-Tetrachloroethane	NC	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
Benzene	0.06	0.06	4.8	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
Toluene	0.7	0.7	100	0.00048	J	0.002	ND		0.0014	0.0018	J	0.012	ND		0.0053	ND		0.0012
Ethylbenzene	1	1	41	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
Chloromethane	NC	NC	NC	0.00063	J	0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0046
Bromomethane	NC	NC	NC	ND		0.0026	ND		0.0019	ND		0.016	ND		0.007	ND		0.0023
Vinyl chloride	NC	0.02	0.9	ND		0.0026	ND		0.0019	ND		0.016	ND		0.007	ND		0.0012
Chloroethane	NC	NC	NC	ND		0.0026	ND		0.0019	ND		0.016	ND		0.007	ND		0.0023
1,1-Dichloroethene	NC	0.33	100	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
trans-1,2-Dichloroethene	NC	0.19	100	ND		0.002	ND		0.0014	ND		0.012	ND		0.0053	ND		0.0017
Trichloroethene	NC	0.47	21	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
1,2-Dichlorobenzene	NC	1.1	100	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
1,3-Dichlorobenzene	NC	2.4	49	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
1,4-Dichlorobenzene	NC	1.8	13	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
Methyl tert butyl ether	0.93	0.93	100	ND		0.0026	ND		0.0019	ND		0.016	0.00059	J	0.007	ND		0.0023
p/m-Xylene	0.26	NC	NC	ND		0.0026	ND		0.0019	ND		0.016	ND		0.007	ND		0.0023
o-Xylene	0.26	NC	NC	ND		0.0026	ND		0.0019	ND		0.016	ND		0.007	ND		0.0012
Xylenes, Total	0.26	1.6	100	ND		0.0026	ND		0.0019	ND		0.016	ND		0.007	ND		0.0012
cis-1,2-Dichloroethene	NC	0.25	100	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
1,2-Dichloroethene, Total	NC	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
Dibromomethane	NC	NC	NC	ND		0.013	ND		0.0097	ND		0.078	ND		0.035	ND		0.0023
Styrene	NC	NC	NC	ND		0.0026	ND		0.0019	ND		0.016	ND		0.007	ND		0.0012
Dichlorodifluoromethane	NC	NC	NC	ND		0.013	ND		0.0097	ND		0.078	ND		0.035	ND		0.012
Acetone	NC	0.05	100	0.059		0.013	ND		0.0097	1.1		0.078	0.13		0.035	ND		0.012
Carbon disulfide	NC	NC	NC	ND		0.013	ND		0.0097	ND		0.078	0.0069	J	0.035	ND		0.012
2-Butanone	NC	0.12	100	0.0068	J	0.013	ND		0.0097	0.33		0.078	ND		0.035	ND		0.012
Vinyl acetate	NC	NC	NC	ND		0.013	ND		0.0097	ND		0.078	ND		0.035	ND		0.012
4-Methyl-2-pentanone	NC	NC	NC	ND		0.013	ND		0.0097	ND		0.078	ND		0.035	ND		0.012
1,2,3-Trichloropropane	NC	NC	NC	ND		0.013	ND		0.0097	ND		0.078	ND		0.035	ND		0.0023

Notes:
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CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			GT2-B2			DT-E2			DT-B1			DT-B2			DT-E3		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822494-02			L1821027-01			L1821307-01			L1821992-01			L1825914-01		
COLLECTION DATE:				6/14/2018			6/6/2018			6/7/2018			6/12/2018			7/9/2018		
SAMPLE DEPTH (FT):				9-9.5			7-7.5			14-14.5			14-14.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Hexanone	NC	NC	NC	ND		0.013	ND		0.0097	ND		0.078	ND		0.035	ND		0.012
Bromochloromethane	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
2,2-Dichloropropane	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
1,2-Dibromoethane	NC	NC	NC	ND		0.0052	ND		0.0039	ND		0.031	ND		0.014	ND		0.0012
1,3-Dichloropropane	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
1,1,1,2-Tetrachloroethane	NC	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.00058
Bromobenzene	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
n-Butylbenzene	12	12	100	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
sec-Butylbenzene	11	11	100	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
tert-Butylbenzene	5.9	5.9	100	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
o-Chlorotoluene	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
p-Chlorotoluene	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
1,2-Dibromo-3-chloropropane	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0034
Hexachlorobutadiene	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0046
Isopropylbenzene	2.3	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
p-Isopropyltoluene	10	NC	NC	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
Naphthalene	12	12	100	0.00063	J	0.0065	ND		0.0048	0.037	J	0.039	ND		0.018	ND		0.0046
Acrylonitrile	NC	NC	NC	ND		0.013	ND		0.0097	ND		0.078	ND		0.035	ND		0.0046
n-Propylbenzene	3.9	3.9	100	ND		0.0013	ND		0.00097	ND		0.0078	ND		0.0035	ND		0.0012
1,2,3-Trichlorobenzene	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
1,3,5-Trimethylbenzene	8.4	8.4	52	ND		0.0065	ND		0.0048	0.0041	J	0.039	ND		0.018	ND		0.0023
1,2,4-Trimethylbenzene	3.6	3.6	52	ND		0.0065	ND		0.0048	0.0087	J	0.039	ND		0.018	ND		0.0023
1,4-Dioxane	NC	0.1	13	ND		0.052	ND		0.039	ND		0.31	ND		0.14	ND		0.12
p-Diethylbenzene	NC	NC	NC	ND		0.0052	ND		0.0039	ND		0.031	ND		0.014	ND		0.0023
p-Ethyltoluene	NC	NC	NC	ND		0.0052	ND		0.0039	ND		0.031	ND		0.014	ND		0.0023
1,2,4,5-Tetramethylbenzene	NC	NC	NC	ND		0.0052	ND		0.0039	0.0023	J	0.031	ND		0.014	ND		0.0023
Ethyl ether	NC	NC	NC	0.0006	J	0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0023
trans-1,4-Dichloro-2-butene	NC	NC	NC	ND		0.0065	ND		0.0048	ND		0.039	ND		0.018	ND		0.0058
SEMIVOLATILE ORGANICS																		
Acenaphthene	20	98	100	0.1	J	0.17	0.34		0.15	ND		1.2	ND		0.58	0.19		0.15
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Hexachlorobenzene	NC	3.2	1.2	ND		0.13	ND		0.11	ND		0.92	ND		0.44	ND		0.11
Bis(2-chloroethyl)ether	NC	NC	NC	ND		0.19	ND		0.17	ND		1.4	ND		0.66	ND		0.17
2-Chloronaphthalene	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
1,2-Dichlorobenzene	NC	1.1	100	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
1,3-Dichlorobenzene	NC	2.4	49	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
1,4-Dichlorobenzene	NC	1.8	13	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
3,3'-Dichlorobenzidine	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
2,4-Dinitrotoluene	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
2,6-Dinitrotoluene	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Fluoranthene	100	1000	100	0.88		0.13	8.5		0.23	0.93		0.92	ND		0.44	2.4		0.11
4-Chlorophenyl phenyl ether	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
4-Bromophenyl phenyl ether	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Bis(2-chloroisopropyl)ether	NC	NC	NC	ND		0.25	ND		0.23	ND		1.8	ND		0.88	ND		0.22
Bis(2-chloroethoxy)methane	NC	NC	NC	ND		0.23	ND		0.2	ND		1.6	ND		0.79	ND		0.2
Hexachlorobutadiene	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Hexachlorocyclopentadiene	NC	NC	NC	ND		0.6	ND		0.54	ND		4.4	ND		2.1	ND		0.53

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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			GT2-B2			DT-E2			DT-B1			DT-B2			DT-E3		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822494-02			L1821027-01			L1821307-01			L1821992-01			L1825914-01		
COLLECTION DATE:				6/14/2018			6/6/2018			6/7/2018			6/12/2018			7/9/2018		
SAMPLE DEPTH (FT):				9-9.5			7-7.5			14-14.5			14-14.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Hexachloroethane	NC	NC	NC	ND		0.17	ND		0.15	ND		1.2	ND		0.58	ND		0.15
Isophorone	NC	NC	NC	ND		0.19	ND		0.17	ND		1.4	ND		0.66	ND		0.17
Naphthalene	12	12	100	0.19	J	0.21	0.16	J	0.19	ND		1.5	ND		0.73	0.19		0.18
Nitrobenzene	NC	NC	NC	ND		0.19	ND		0.17	ND		1.4	ND		0.66	ND		0.17
NDPA/DPA	NC	NC	NC	ND		0.17	ND		0.15	ND		1.2	ND		0.58	ND		0.15
n-Nitrosodi-n-propylamine	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Bis(2-ethylhexyl)phthalate	NC	NC	NC	ND		0.21	0.08	J	0.19	ND		1.5	ND		0.73	0.076	J	0.18
Butyl benzyl phthalate	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Di-n-butylphthalate	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Di-n-octylphthalate	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Diethyl phthalate	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Dimethyl phthalate	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Benzo(a)anthracene	1	1	1	0.47		0.13	4.2		0.11	0.47	J	0.92	ND		0.44	1.1		0.11
Benzo(a)pyrene	1	22	1	0.48		0.17	3.6		0.15	0.39	J	1.2	ND		0.58	0.98		0.15
Benzo(b)fluoranthene	1	1.7	1	0.54		0.13	4.7		0.11	0.47	J	0.92	ND		0.44	1.2		0.11
Benzo(k)fluoranthene	0.8	1.7	3.9	0.21		0.13	1.4		0.11	ND		0.92	ND		0.44	0.41		0.11
Chrysene	1	1	3.9	0.47		0.13	3.9		0.11	0.45	J	0.92	ND		0.44	1		0.11
Acenaphthylene	100	107	100	0.081	J	0.17	0.084	J	0.15	ND		1.2	ND		0.58	0.16		0.15
Anthracene	100	1000	100	0.18		0.13	1.8		0.11	0.3	J	0.92	ND		0.44	0.59		0.11
Benzo(ghi)perylene	100	1000	100	0.29		0.17	1.9		0.15	0.23	J	1.2	ND		0.58	0.64		0.15
Fluorene	30	386	100	0.13	J	0.21	0.46		0.19	0.22	J	1.5	ND		0.73	0.31		0.18
Phenanthrene	100	1000	100	0.66		0.13	4.1		0.11	0.9	J	0.92	ND		0.44	2		0.11
Dibenzo(a,h)anthracene	0.33	1000	0.33	0.078	J	0.13	0.59		0.11	ND		0.92	ND		0.44	0.15		0.11
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	0.32		0.17	2.2		0.15	0.25	J	1.2	ND		0.58	0.68		0.15
Pyrene	100	1000	100	0.87		0.13	6.7		0.11	0.96		0.92	ND		0.44	2.1		0.11
Biphenyl	NC	NC	NC	ND		0.48	ND		0.43	ND		3.5	ND		1.7	ND		0.42
4-Chloroaniline	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
2-Nitroaniline	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
3-Nitroaniline	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
4-Nitroaniline	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Dibenzofuran	NC	210	59	0.055	J	0.21	0.19		0.19	ND		1.5	ND		0.73	0.14	J	0.18
2-Methylnaphthalene	NC	NC	NC	0.064	J	0.25	0.068	J	0.23	ND		1.8	ND		0.88	0.056	J	0.22
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Acetophenone	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
2,4,6-Trichlorophenol	NC	NC	NC	ND		0.13	ND		0.11	ND		0.92	ND		0.44	ND		0.11
p-Chloro-m-cresol	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
2-Chlorophenol	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
2,4-Dichlorophenol	NC	NC	NC	ND		0.19	ND		0.17	ND		1.4	ND		0.66	ND		0.17
2,4-Dimethylphenol	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
2-Nitrophenol	NC	NC	NC	ND		0.46	ND		0.41	ND		3.3	ND		1.6	ND		0.4
4-Nitrophenol	NC	NC	NC	ND		0.3	ND		0.26	ND		2.1	ND		1	ND		0.26
2,4-Dinitrophenol	NC	NC	NC	ND		1	ND		0.91	ND		7.4	ND		3.5	ND		0.89
4,6-Dinitro-o-cresol	NC	NC	NC	ND		0.55	ND		0.49	ND		4	ND		1.9	ND		0.48
Pentachlorophenol	NC	0.8	6.7	ND		0.17	ND		0.15	ND		1.2	ND		0.58	ND		0.15
Phenol	NC	0.33	100	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
2-Methylphenol	NC	0.33	100	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
3-Methylphenol/4-Methylphenol	NC	0.33	100	ND		0.3	ND		0.27	ND		2.2	ND		1	ND		0.27
2,4,5-Trichlorophenol	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18

Notes:
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			GT2-B2			DT-E2			DT-B1			DT-B2			DT-E3		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822494-02			L1821027-01			L1821307-01			L1821992-01			L1825914-01		
COLLECTION DATE:				6/14/2018			6/6/2018			6/7/2018			6/12/2018			7/9/2018		
SAMPLE DEPTH (FT):				9-9.5			7-7.5			14-14.5			14-14.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Benzoic Acid	NC	NC	NC	ND		0.68	ND		0.61	ND		5	ND		2.4	ND		0.6
Benzyl Alcohol	NC	NC	NC	ND		0.21	ND		0.19	ND		1.5	ND		0.73	ND		0.18
Carbazole	NC	NC	NC	0.062	J	0.21	0.34		0.19	ND		1.5	ND		0.73	0.28		0.18
POLYCHLORINATED BIPHENYLS (PCBs)																		
Aroclor 1016	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1221	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1232	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1242	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1248	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1254	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1260	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1262	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1268	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PCBs, Total	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PETROLEUM HYDROCARBON (TPH)																		
DROD (C9-C44)	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
PESTICIDES																		
Delta-BHC	NC	0.25	100	-		-	-		-	-		-	-		-	-		-
Lindane	NC	0.1	1.3	-		-	-		-	-		-	-		-	-		-
Alpha-BHC	NC	0.02	0.48	-		-	-		-	-		-	-		-	-		-
Beta-BHC	NC	0.09	0.36	-		-	-		-	-		-	-		-	-		-
Heptachlor	NC	0.38	2.1	-		-	-		-	-		-	-		-	-		-
Aldrin	NC	0.19	0.097	-		-	-		-	-		-	-		-	-		-
Heptachlor epoxide	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin	NC	0.06	11	-		-	-		-	-		-	-		-	-		-
Endrin aldehyde	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin ketone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dieldrin	NC	0.1	0.2	-		-	-		-	-		-	-		-	-		-
4,4'-DDD	NC	17	8.9	-		-	-		-	-		-	-		-	-		-
4,4'-DDT	NC	14	13	-		-	-		-	-		-	-		-	-		-
4,4'-DDE	NC	136	7.9	-		-	-		-	-		-	-		-	-		-
Endosulfan I	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan II	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan sulfate	NC	1000	24	-		-	-		-	-		-	-		-	-		-
Methoxychlor	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Toxaphene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
cis-Chlordane	NC	2.9	4.2	-		-	-		-	-		-	-		-	-		-
trans-Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	10700		10.2	9170		9.09	2460		38.2	5450		18.3	11700		8.52
Beryllium, Total	NC	47	72	0.336	J	0.509	0.209	J	0.454	ND		1.91	ND		0.917	0.179	J	0.426
Cadmium, Total	NC	7.5	4.3	ND		1.02	0.672	J	0.909	0.841	J	3.82	ND		1.83	1.69		0.852
Calcium, Total	NC	NC	NC	2140		10.2	10100		9.09	30400		38.2	4620		18.3	17000		8.52
Chromium, Trivalent	NC	NC	36	-		-	-		-	-		-	-		-	-		-
Chromium, Total	NC	NC	NC	22.1		1.02	19		0.909	4.13		3.82	11.8		1.83	21.6		0.852
Cobalt, Total	NC	NC	NC	7.3		2.04	8.85		1.82	1.38	J	7.64	5.21		3.67	10.9		1.7

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CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			GT2-B2			DT-E2			DT-B1			DT-B2			DT-E3		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1822494-02			L1821027-01			L1821307-01			L1821992-01			L1825914-01		
COLLECTION DATE:				6/14/2018			6/6/2018			6/7/2018			6/12/2018			7/9/2018		
SAMPLE DEPTH (FT):				9-9.5			7-7.5			14-14.5			14-14.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Copper, Total	NC	1720	270	21.9		1.02	191		0.909	25.6		3.82	32.4		1.83	83.3		0.852
Iron, Total	NC	NC	NC	14400		5.09	19500		4.54	4500		19.1	15900		9.17	24800		4.26
Lead, Total	NC	450	400	42.6		5.09	104		4.54	58.3		19.1	2.81	J	9.17	215		4.26
Magnesium, Total	NC	NC	NC	3260		10.2	6620		9.09	2900		38.2	3430		18.3	6400		8.52
Manganese, Total	NC	2000	2000	124		1.02	259		0.909	314		3.82	108		1.83	335		0.852
Mercury, Total	NC	0.73	0.81	0.085		0.082	0.203		0.073	0.427		0.398	ND		0.149	0.133		0.072
Nickel, Total	NC	130	310	12		2.55	14.9		2.27	6.54	J	9.55	16.7		4.58	18.3		2.13
Potassium, Total	NC	NC	NC	962		255	2910		227	167	J	955	720		458	4220		213
Selenium, Total	NC	4	180	1.17	J	2.04	ND		1.82	4.09	J	7.64	2.46	J	3.67	ND		1.7
Silver, Total	NC	8.3	180	ND		1.02	ND		0.909	ND		3.82	ND		1.83	ND		0.852
Sodium, Total	NC	NC	NC	170	J	204	138	J	182	424	J	764	92.1	J	367	304		170
Thallium, Total	NC	NC	NC	ND		2.04	ND		1.82	ND		7.64	ND		3.67	ND		1.7
Vanadium, Total	NC	NC	NC	29.4		1.02	26.9		0.909	12		3.82	14		1.83	33.1		0.852
Zinc, Total	NC	2480	10000	71.3		5.09	136		4.54	92.8		19.1	53		9.17	172		4.26

Notes:
Results reported in milligrams per kilogram (mg/kg) or parts per million
Exceedances (if any) are highlighted
For samples collected in 2013, only exceedances are shown
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
P = The relative percent difference (RPD) between the two columns exceeds the method-specified criteria
I = The lower value for the two columns has been reported due to obvious interference
- = Not analyzed

TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B3			DT-S2			DT-S1			DT-B4			DT-E4		
LAB ID:				L1825914-02			L1825914-04			L1826381-01			L1827822-01			L1827822-03		
COLLECTION DATE:	CP-51	Protection of Grounwater	Restricted-Residential Use	7/9/2018			7/9/2018			7/11/2018			7/19/2018			7/19/2018		
SAMPLE DEPTH (FT):				10-10.5			6-6.5			6-6.5			9-9.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS																		
Methylene chloride	NC	0.05	100	0.015	J	0.027	ND		0.0053	ND		0.023	ND		0.054	ND		0.0066
1,1-Dichloroethane	NC	0.27	26	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
Chloroform	NC	0.37	49	ND		0.0081	ND		0.0016	ND		0.007	ND		0.016	ND		0.002
Carbon tetrachloride	NC	0.76	2.4	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
1,2-Dichloropropane	NC	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
Dibromochloromethane	NC	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
1,1,2-Trichloroethane	NC	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
Tetrachloroethene	NC	1.3	19	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
Chlorobenzene	NC	1.1	100	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
Trichlorofluoromethane	NC	NC	NC	ND		0.022	ND		0.0042	ND		0.019	ND		0.043	ND		0.0053
1,2-Dichloroethane	NC	0.02	3.1	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
1,1,1-Trichloroethane	NC	0.68	100	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
Bromodichloromethane	NC	NC	NC	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
trans-1,3-Dichloropropene	NC	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
cis-1,3-Dichloropropene	NC	NC	NC	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
1,3-Dichloropropene, Total	NC	NC	NC	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
1,1-Dichloropropene	NC	NC	NC	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
Bromoform	NC	NC	NC	ND		0.022	ND		0.0042	ND		0.019	ND		0.043	ND		0.0053
1,1,2,2-Tetrachloroethane	NC	NC	NC	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
Benzene	0.06	0.06	4.8	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
Toluene	0.7	0.7	100	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
Ethylbenzene	1	1	41	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
Chloromethane	NC	NC	NC	ND		0.022	ND		0.0042	ND		0.019	ND		0.043	ND		0.0053
Bromomethane	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
Vinyl chloride	NC	0.02	0.9	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
Chloroethane	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,1-Dichloroethene	NC	0.33	100	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
trans-1,2-Dichloroethene	NC	0.19	100	ND		0.0081	ND		0.0016	ND		0.007	ND		0.016	ND		0.002
Trichloroethene	NC	0.47	21	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
1,2-Dichlorobenzene	NC	1.1	100	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,3-Dichlorobenzene	NC	2.4	49	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,4-Dichlorobenzene	NC	1.8	13	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
Methyl tert butyl ether	0.93	0.93	100	ND		0.011	ND		0.0021	ND		0.0093	0.0068	J	0.022	ND		0.0026
p/m-Xylene	0.26	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
o-Xylene	0.26	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
Xylenes, Total	0.26	1.6	100	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
cis-1,2-Dichloroethene	NC	0.25	100	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
1,2-Dichloroethene, Total	NC	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
Dibromomethane	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
Styrene	NC	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
Dichlorodifluoromethane	NC	NC	NC	ND		0.054	ND		0.01	ND		0.046	ND		0.11	ND		0.013
Acetone	NC	0.05	100	1.4		0.054	ND		0.01	0.34		0.046	0.11		0.11	ND		0.013
Carbon disulfide	NC	NC	NC	ND		0.054	ND		0.01	ND		0.046	ND		0.11	ND		0.013
2-Butanone	NC	0.12	100	0.44		0.054	ND		0.01	0.17		0.046	ND		0.11	ND		0.013
Vinyl acetate	NC	NC	NC	ND		0.054	ND		0.01	ND		0.046	ND		0.11	ND		0.013
4-Methyl-2-pentanone	NC	NC	NC	ND		0.054	ND		0.01	ND		0.046	ND		0.11	ND		0.013
1,2,3-Trichloropropane	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026

Notes:
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B3			DT-S2			DT-S1			DT-B4			DT-E4		
LAB ID:				L1825914-02			L1825914-04			L1826381-01			L1827822-01			L1827822-03		
COLLECTION DATE:	CP-51	Protection of Grounwater	Restricted-Residential Use	7/9/2018			7/9/2018			7/11/2018			7/19/2018			7/19/2018		
SAMPLE DEPTH (FT):				10-10.5			6-6.5			6-6.5			9-9.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Hexanone	NC	NC	NC	ND		0.054	ND		0.01	ND		0.046	ND		0.11	ND		0.013
Bromochloromethane	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
2,2-Dichloropropane	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,2-Dibromoethane	NC	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
1,3-Dichloropropane	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,1,1,2-Tetrachloroethane	NC	NC	NC	ND		0.0027	ND		0.00053	ND		0.0023	ND		0.0054	ND		0.00066
Bromobenzene	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
n-Butylbenzene	12	12	100	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
sec-Butylbenzene	11	11	100	0.0028	J	0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
tert-Butylbenzene	5.9	5.9	100	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
o-Chlorotoluene	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
p-Chlorotoluene	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,2-Dibromo-3-chloropropane	NC	NC	NC	ND		0.016	ND		0.0032	ND		0.014	ND		0.032	ND		0.004
Hexachlorobutadiene	NC	NC	NC	ND		0.022	ND		0.0042	ND		0.019	ND		0.043	ND		0.0053
Isopropylbenzene	2.3	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
p-Isopropyltoluene	10	NC	NC	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	0.00084	J	0.0013
Naphthalene	12	12	100	ND		0.022	ND		0.0042	ND		0.019	ND		0.043	0.012		0.0053
Acrylonitrile	NC	NC	NC	ND		0.022	ND		0.0042	ND		0.019	ND		0.043	ND		0.0053
n-Propylbenzene	3.9	3.9	100	ND		0.0054	ND		0.001	ND		0.0046	ND		0.011	ND		0.0013
1,2,3-Trichlorobenzene	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,3,5-Trimethylbenzene	8.4	8.4	52	0.0031	J	0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,2,4-Trimethylbenzene	3.6	3.6	52	0.0077	J	0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,4-Dioxane	NC	0.1	13	ND		0.54	ND		0.1	ND		0.46	ND		1.1	ND		0.13
p-Diethylbenzene	NC	NC	NC	0.0074	J	0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
p-Ethyltoluene	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
1,2,4,5-Tetramethylbenzene	NC	NC	NC	0.016		0.011	0.0004	J	0.0021	ND		0.0093	ND		0.022	ND		0.0026
Ethyl ether	NC	NC	NC	ND		0.011	ND		0.0021	ND		0.0093	ND		0.022	ND		0.0026
trans-1,4-Dichloro-2-butene	NC	NC	NC	ND		0.027	ND		0.0053	ND		0.023	ND		0.054	ND		0.0066
SEMIVOLATILE ORGANICS																		
Acenaphthene	20	98	100	ND		0.41	0.36	J	0.74	ND		0.38	ND		0.83	0.31	J	0.34
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Hexachlorobenzene	NC	3.2	1.2	ND		0.31	ND		0.55	ND		0.28	ND		0.62	ND		0.25
Bis(2-chloroethyl)ether	NC	NC	NC	ND		0.46	ND		0.83	ND		0.42	ND		0.93	ND		0.38
2-Chloronaphthalene	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
1,2-Dichlorobenzene	NC	1.1	100	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
1,3-Dichlorobenzene	NC	2.4	49	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
1,4-Dichlorobenzene	NC	1.8	13	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
3,3'-Dichlorobenzidine	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
2,4-Dinitrotoluene	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
2,6-Dinitrotoluene	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Fluoranthene	100	1000	100	0.14	J	0.31	3.6		0.55	0.084	J	0.28	ND		0.62	5.5		0.25
4-Chlorophenyl phenyl ether	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
4-Bromophenyl phenyl ether	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Bis(2-chloroisopropyl)ether	NC	NC	NC	ND		0.62	ND		1.1	ND		0.57	ND		1.2	ND		0.51
Bis(2-chloroethoxy)methane	NC	NC	NC	ND		0.56	ND		1	ND		0.51	ND		1.1	ND		0.46
Hexachlorobutadiene	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Hexachlorocyclopentadiene	NC	NC	NC	ND		1.5	ND		2.6	ND		1.3	ND		3	ND		1.2

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CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B3			DT-S2			DT-S1			DT-B4			DT-E4		
LAB ID:				L1825914-02			L1825914-04			L1826381-01			L1827822-01			L1827822-03		
COLLECTION DATE:	CP-51	Protection of Grounwater	Restricted-Residential Use	7/9/2018			7/9/2018			7/11/2018			7/19/2018			7/19/2018		
SAMPLE DEPTH (FT):				10-10.5			6-6.5			6-6.5			9-9.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Hexachloroethane	NC	NC	NC	ND		0.41	ND		0.74	ND		0.38	ND		0.83	ND		0.34
Isophorone	NC	NC	NC	ND		0.46	ND		0.83	ND		0.42	ND		0.93	ND		0.38
Naphthalene	12	12	100	ND		0.52	ND		0.92	ND		0.47	ND		1	0.31	J	0.42
Nitrobenzene	NC	NC	NC	ND		0.46	ND		0.83	ND		0.42	ND		0.93	ND		0.38
NDPA/DPA	NC	NC	NC	ND		0.41	ND		0.74	ND		0.38	ND		0.83	ND		0.34
n-Nitrosodi-n-propylamine	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Bis(2-ethylhexyl)phthalate	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Butyl benzyl phthalate	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Di-n-butylphthalate	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Di-n-octylphthalate	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Diethyl phthalate	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Dimethyl phthalate	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Benzo(a)anthracene	1	1	1	0.074	J	0.31	1.6		0.55	ND		0.28	ND		0.62	2.6		0.25
Benzo(a)pyrene	1	22	1	ND		0.41	1.3		0.74	ND		0.38	ND		0.83	2		0.34
Benzo(b)fluoranthene	1	1.7	1	0.1	J	0.31	1.7		0.55	ND		0.28	ND		0.62	2.8		0.25
Benzo(k)fluoranthene	0.8	1.7	3.9	ND		0.31	0.61		0.55	ND		0.28	ND		0.62	0.88		0.25
Chrysene	1	1	3.9	0.075	J	0.31	1.4		0.55	ND		0.28	ND		0.62	2.3		0.25
Acenaphthylene	100	107	100	ND		0.41	0.32	J	0.74	ND		0.38	ND		0.83	0.43		0.34
Anthracene	100	1000	100	ND		0.31	0.75		0.55	ND		0.28	ND		0.62	1.3		0.25
Benzo(ghi)perylene	100	1000	100	ND		0.41	0.82		0.74	ND		0.38	ND		0.83	1.2		0.34
Fluorene	30	386	100	ND		0.52	0.37	J	0.92	ND		0.47	ND		1	0.55		0.42
Phenanthrene	100	1000	100	0.075	J	0.31	2.3		0.55	ND		0.28	ND		0.62	4.3		0.25
Dibenzo(a,h)anthracene	0.33	1000	0.33	ND		0.31	0.17	J	0.55	ND		0.28	ND		0.62	0.33		0.25
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	ND		0.41	0.84		0.74	ND		0.38	ND		0.83	1.4		0.34
Pyrene	100	1000	100	0.12	J	0.31	3.2		0.55	0.081	J	0.28	ND		0.62	4.1		0.25
Biphenyl	NC	NC	NC	ND		1.2	ND		2.1	ND		1.1	ND		2.4	ND		0.96
4-Chloroaniline	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
2-Nitroaniline	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
3-Nitroaniline	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
4-Nitroaniline	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Dibenzofuran	NC	210	59	ND		0.52	0.18	J	0.92	ND		0.47	ND		1	0.29	J	0.42
2-Methylnaphthalene	NC	NC	NC	ND		0.62	ND		1.1	ND		0.57	ND		1.2	0.12	J	0.51
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Acetophenone	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
2,4,6-Trichlorophenol	NC	NC	NC	ND		0.31	ND		0.55	ND		0.28	ND		0.62	ND		0.25
p-Chloro-m-cresol	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
2-Chlorophenol	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
2,4-Dichlorophenol	NC	NC	NC	ND		0.46	ND		0.83	ND		0.42	ND		0.93	ND		0.38
2,4-Dimethylphenol	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
2-Nitrophenol	NC	NC	NC	ND		1.1	ND		2	ND		1	ND		2.2	ND		0.91
4-Nitrophenol	NC	NC	NC	ND		0.72	ND		1.3	ND		0.66	ND		1.4	ND		0.59
2,4-Dinitrophenol	NC	NC	NC	ND		2.5	ND		4.4	ND		2.3	ND		5	ND		2
4,6-Dinitro-o-cresol	NC	NC	NC	ND		1.3	ND		2.4	ND		1.2	ND		2.7	ND		1.1
Pentachlorophenol	NC	0.8	6.7	ND		0.41	ND		0.74	ND		0.38	ND		0.83	ND		0.34
Phenol	NC	0.33	100	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
2-Methylphenol	NC	0.33	100	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
3-Methylphenol/4-Methylphenol	NC	0.33	100	ND		0.74	ND		1.3	ND		0.68	ND		1.5	ND		0.61
2,4,5-Trichlorophenol	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42

Notes:
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B3			DT-S2			DT-S1			DT-B4			DT-E4		
LAB ID:				L1825914-02			L1825914-04			L1826381-01			L1827822-01			L1827822-03		
COLLECTION DATE:	CP-51	Protection of Grounwater	Restricted-Residential Use	7/9/2018			7/9/2018			7/11/2018			7/19/2018			7/19/2018		
SAMPLE DEPTH (FT):				10-10.5			6-6.5			6-6.5			9-9.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Benzoic Acid	NC	NC	NC	ND		1.7	ND		3	ND		1.5	ND		3.3	ND		1.4
Benzyl Alcohol	NC	NC	NC	ND		0.52	ND		0.92	ND		0.47	ND		1	ND		0.42
Carbazole	NC	NC	NC	ND		0.52	0.3	J	0.92	ND		0.47	ND		1	0.48		0.42
POLYCHLORINATED BIPHENYLS (PCBs)																		
Aroclor 1016	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1221	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1232	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1242	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1248	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1254	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1260	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1262	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1268	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PCBs, Total	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PETROLEUM HYDROCARBON (TPH)																		
DROD (C9-C44)	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
PESTICIDES																		
Delta-BHC	NC	0.25	100	-		-	-		-	-		-	-		-	-		-
Lindane	NC	0.1	1.3	-		-	-		-	-		-	-		-	-		-
Alpha-BHC	NC	0.02	0.48	-		-	-		-	-		-	-		-	-		-
Beta-BHC	NC	0.09	0.36	-		-	-		-	-		-	-		-	-		-
Heptachlor	NC	0.38	2.1	-		-	-		-	-		-	-		-	-		-
Aldrin	NC	0.19	0.097	-		-	-		-	-		-	-		-	-		-
Heptachlor epoxide	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin	NC	0.06	11	-		-	-		-	-		-	-		-	-		-
Endrin aldehyde	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin ketone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dieldrin	NC	0.1	0.2	-		-	-		-	-		-	-		-	-		-
4,4'-DDD	NC	17	8.9	-		-	-		-	-		-	-		-	-		-
4,4'-DDT	NC	14	13	-		-	-		-	-		-	-		-	-		-
4,4'-DDE	NC	136	7.9	-		-	-		-	-		-	-		-	-		-
Endosulfan I	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan II	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan sulfate	NC	1000	24	-		-	-		-	-		-	-		-	-		-
Methoxychlor	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Toxaphene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
cis-Chlordane	NC	2.9	4.2	-		-	-		-	-		-	-		-	-		-
trans-Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	5800		24.1	9770		8.72	4440		22.6	538		48.1	13600		9.63
Beryllium, Total	NC	47	72	0.266	J	1.21	0.244	J	0.436	0.136	J	1.13	ND		2.4	0.308	J	0.481
Cadmium, Total	NC	7.5	4.3	3.82		2.41	2.52		0.872	0.544	J	2.26	ND		4.81	0.924	J	0.963
Calcium, Total	NC	NC	NC	25500		24.1	24800		8.72	21800		22.6	15000		48.1	1510		9.63
Chromium, Trivalent	NC	NC	36	-		-	-		-	-		-	-		-	-		-
Chromium, Total	NC	NC	NC	15.3		2.41	27		0.872	9.2		2.26	1.44	J	4.81	21.6		0.963
Cobalt, Total	NC	NC	NC	3.04	J	4.83	10.3		1.74	3.94	J	4.53	ND		9.62	8.87		1.92

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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B3			DT-S2			DT-S1			DT-B4			DT-E4		
LAB ID:				L1825914-02			L1825914-04			L1826381-01			L1827822-01			L1827822-03		
COLLECTION DATE:	CP-51	Protection of Grounwater	Restricted-Residential Use	7/9/2018			7/9/2018			7/11/2018			7/19/2018			7/19/2018		
SAMPLE DEPTH (FT):				10-10.5			6-6.5			6-6.5			9-9.5			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Copper, Total	NC	1720	270	69.9		2.41	112		0.872	41.9		2.26	9.9		4.81	19.3		0.963
Iron, Total	NC	NC	NC	16400		12.1	31500		4.36	9600		11.3	1070		24	18100		4.81
Lead, Total	NC	450	400	217		12.1	244		4.36	138		11.3	ND		24	64.7		4.81
Magnesium, Total	NC	NC	NC	3010		24.1	9060		8.72	3560		22.6	3110		48.1	3750		9.63
Manganese, Total	NC	2000	2000	253		2.41	379		0.872	281		2.26	68.4		4.81	420		0.963
Mercury, Total	NC	0.73	0.81	0.533		0.198	0.134		0.07	0.493		0.185	ND		0.398	0.194		0.08
Nickel, Total	NC	130	310	15		6.04	28.2		2.18	12.9		5.66	3.75	J	12	15.2		2.41
Potassium, Total	NC	NC	NC	408	J	604	3470		218	801		566	81.8	J	1200	2020		241
Selenium, Total	NC	4	180	5.1		4.83	0.794	J	1.74	3.87	J	4.53	2.16	J	9.62	0.279	J	1.92
Silver, Total	NC	8.3	180	ND		2.41	ND		0.872	ND		2.26	ND		4.81	ND		0.963
Sodium, Total	NC	NC	NC	354	J	483	242		174	145	J	453	206	J	962	108	J	192
Thallium, Total	NC	NC	NC	ND		4.83	ND		1.74	ND		4.53	ND		9.62	ND		1.92
Vanadium, Total	NC	NC	NC	43.4		2.41	34.2		0.872	21.5		2.26	2.88	J	4.81	29.8		0.963
Zinc, Total	NC	2480	10000	270		12.1	328		4.36	253		11.3	14.2	J	24	109		4.81

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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B5			DT-B6			DT-W4			T-1			T-2		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1830930-01			L1835570-01			L1835570-02			L1802318-01			L1802318-02		
COLLECTION DATE:				8/8/2018			9/7/2018			9/7/2018			1/22/2018			1/22/2018		
SAMPLE DEPTH (FT):				11-11.5			10.5-11			7-7.5			7.5-8			7.5-8		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS																		
Methylene chloride	NC	0.05	100	0.0032	J	0.007	ND		0.044	0.0045	J	0.0097	-		-	-		-
1,1-Dichloroethane	NC	0.27	26	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
Chloroform	NC	0.37	49	ND		0.0021	ND		0.013	ND		0.0029	-		-	-		-
Carbon tetrachloride	NC	0.76	2.4	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
1,2-Dichloropropane	NC	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
Dibromochloromethane	NC	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
1,1,2-Trichloroethane	NC	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
Tetrachloroethene	NC	1.3	19	ND		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
Chlorobenzene	NC	1.1	100	0.0011		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
Trichlorofluoromethane	NC	NC	NC	ND		0.0056	ND		0.036	ND		0.0077	-		-	-		-
1,2-Dichloroethane	NC	0.02	3.1	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
1,1,1-Trichloroethane	NC	0.68	100	ND		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
Bromodichloromethane	NC	NC	NC	ND		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
trans-1,3-Dichloropropene	NC	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
cis-1,3-Dichloropropene	NC	NC	NC	ND		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
1,3-Dichloropropene, Total	NC	NC	NC	ND		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
1,1-Dichloropropene	NC	NC	NC	ND		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
Bromoform	NC	NC	NC	ND		0.0056	ND		0.036	ND		0.0077	-		-	-		-
1,1,2,2-Tetrachloroethane	NC	NC	NC	ND		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
Benzene	0.06	0.06	4.8	ND		0.0007	ND		0.0044	ND		0.00097	ND		0.0013	ND		0.0011
Toluene	0.7	0.7	100	ND		0.0014	0.0076	J	0.0089	ND		0.0019	ND		0.002	ND		0.0016
Ethylbenzene	1	1	41	ND		0.0014	ND		0.0089	ND		0.0019	ND		0.0013	ND		0.0011
Chloromethane	NC	NC	NC	ND		0.0056	ND		0.036	ND		0.0077	-		-	-		-
Bromomethane	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
Vinyl chloride	NC	0.02	0.9	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
Chloroethane	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
1,1-Dichloroethene	NC	0.33	100	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
trans-1,2-Dichloroethene	NC	0.19	100	ND		0.0021	ND		0.013	ND		0.0029	-		-	-		-
Trichloroethene	NC	0.47	21	ND		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
1,2-Dichlorobenzene	NC	1.1	100	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
1,3-Dichlorobenzene	NC	2.4	49	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
1,4-Dichlorobenzene	NC	1.8	13	0.0015	J	0.0028	ND		0.018	ND		0.0039	-		-	-		-
Methyl tert butyl ether	0.93	0.93	100	ND		0.0028	0.0049	J	0.018	ND		0.0039	ND		0.0026	ND		0.0022
p/m-Xylene	0.26	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	ND		0.0026	ND		0.0022
o-Xylene	0.26	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	ND		0.0026	ND		0.0022
Xylenes, Total	0.26	1.6	100	ND		0.0014	ND		0.0089	ND		0.0019	ND		0.0026	ND		0.0022
cis-1,2-Dichloroethene	NC	0.25	100	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
1,2-Dichloroethene, Total	NC	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
Dibromomethane	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
Styrene	NC	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
Dichlorodifluoromethane	NC	NC	NC	ND		0.014	ND		0.089	ND		0.019	-		-	-		-
Acetone	NC	0.05	100	0.021		0.014	0.53		0.092	0.13		0.019	-		-	-		-
Carbon disulfide	NC	NC	NC	ND		0.014	ND		0.089	ND		0.019	-		-	-		-
2-Butanone	NC	0.12	100	ND		0.014	0.12		0.092	0.051		0.019	-		-	-		-
Vinyl acetate	NC	NC	NC	ND		0.014	ND		0.089	ND		0.019	-		-	-		-
4-Methyl-2-pentanone	NC	NC	NC	ND		0.014	ND		0.089	ND		0.019	-		-	-		-
1,2,3-Trichloropropane	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-

Notes:
Results reported in milligrams per kilogram (mg/kg) or parts per million
Exceedances (if any) are highlighted
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B5			DT-B6			DT-W4			T-1			T-2		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1830930-01			L1835570-01			L1835570-02			L1802318-01			L1802318-02		
COLLECTION DATE:				8/8/2018			9/7/2018			9/7/2018			1/22/2018			1/22/2018		
SAMPLE DEPTH (FT):				11-11.5			10.5-11			7-7.5			7.5-8			7.5-8		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Hexanone	NC	NC	NC	ND		0.014	ND		0.089	ND		0.019	-		-	-		-
Bromochloromethane	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
2,2-Dichloropropane	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
1,2-Dibromoethane	NC	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	-		-	-		-
1,3-Dichloropropane	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
1,1,1,2-Tetrachloroethane	NC	NC	NC	ND		0.0007	ND		0.0044	ND		0.00097	-		-	-		-
Bromobenzene	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
n-Butylbenzene	12	12	100	ND		0.0014	ND		0.0089	ND		0.0019	ND		0.0013	ND		0.0011
sec-Butylbenzene	11	11	100	ND		0.0014	ND		0.0089	ND		0.0019	ND		0.0013	ND		0.0011
tert-Butylbenzene	5.9	5.9	100	ND		0.0028	ND		0.018	ND		0.0039	ND		0.0065	ND		0.0054
o-Chlorotoluene	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
p-Chlorotoluene	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
1,2-Dibromo-3-chloropropane	NC	NC	NC	ND		0.0042	ND		0.027	ND		0.0058	-		-	-		-
Hexachlorobutadiene	NC	NC	NC	ND		0.0056	ND		0.036	ND		0.0077	-		-	-		-
Isopropylbenzene	2.3	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	ND		0.0013	ND		0.0011
p-Isopropyltoluene	10	NC	NC	ND		0.0014	ND		0.0089	ND		0.0019	ND		0.0013	0.0018		0.0011
Naphthalene	12	12	100	0.0014	J	0.0056	ND		0.036	ND		0.0077	ND		0.0065	ND		0.0054
Acrylonitrile	NC	NC	NC	ND		0.0056	ND		0.036	ND		0.0077	-		-	-		-
n-Propylbenzene	3.9	3.9	100	ND		0.0014	ND		0.0089	ND		0.0019	ND		0.0013	ND		0.0011
1,2,3-Trichlorobenzene	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
1,3,5-Trimethylbenzene	8.4	8.4	52	ND		0.0028	ND		0.018	ND		0.0039	ND		0.0065	ND		0.0054
1,2,4-Trimethylbenzene	3.6	3.6	52	ND		0.0028	ND		0.018	ND		0.0039	ND		0.0065	ND		0.0054
1,4-Dioxane	NC	0.1	13	ND		0.14	ND		0.89	ND		0.19	-		-	-		-
p-Diethylbenzene	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
p-Ethyltoluene	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
1,2,4,5-Tetramethylbenzene	NC	NC	NC	0.00036	J	0.0028	ND		0.018	ND		0.0039	-		-	-		-
Ethyl ether	NC	NC	NC	ND		0.0028	ND		0.018	ND		0.0039	-		-	-		-
trans-1,4-Dichloro-2-butene	NC	NC	NC	ND		0.007	ND		0.044	ND		0.0097	-		-	-		-
SEMIVOLATILE ORGANICS																		
Acenaphthene	20	98	100	2.9		0.84	ND		0.77	ND		0.18	0.41		0.16	0.12	J	0.16
1,2,4-Trichlorobenzene	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Hexachlorobenzene	NC	3.2	1.2	ND		0.63	ND		0.58	ND		0.13	-		-	-		-
Bis(2-chloroethyl)ether	NC	NC	NC	ND		0.94	ND		0.86	ND		0.2	-		-	-		-
2-Chloronaphthalene	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
1,2-Dichlorobenzene	NC	1.1	100	ND		1	ND		0.96	ND		0.22	-		-	-		-
1,3-Dichlorobenzene	NC	2.4	49	ND		1	ND		0.96	ND		0.22	-		-	-		-
1,4-Dichlorobenzene	NC	1.8	13	ND		1	ND		0.96	ND		0.22	-		-	-		-
3,3'-Dichlorobenzidine	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
2,4-Dinitrotoluene	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
2,6-Dinitrotoluene	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Fluoranthene	100	1000	100	22		0.63	ND		0.58	0.14		0.13	4		0.12	1.7		0.12
4-Chlorophenyl phenyl ether	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
4-Bromophenyl phenyl ether	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Bis(2-chloroisopropyl)ether	NC	NC	NC	ND		1.3	ND		1.2	ND		0.26	-		-	-		-
Bis(2-chloroethoxy)methane	NC	NC	NC	ND		1.1	ND		1	ND		0.24	-		-	-		-
Hexachlorobutadiene	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Hexachlorocyclopentadiene	NC	NC	NC	ND		3	ND		2.7	ND		0.63	-		-	-		-

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CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B5			DT-B6			DT-W4			T-1			T-2		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1830930-01			L1835570-01			L1835570-02			L1802318-01			L1802318-02		
COLLECTION DATE:				8/8/2018			9/7/2018			9/7/2018			1/22/2018			1/22/2018		
SAMPLE DEPTH (FT):				11-11.5			10.5-11			7-7.5			7.5-8			7.5-8		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Hexachloroethane	NC	NC	NC	ND		0.84	ND		0.77	ND		0.18	-		-	-		-
Isophorone	NC	NC	NC	ND		0.94	ND		0.86	ND		0.2	-		-	-		-
Naphthalene	12	12	100	3.1		1	ND		0.96	ND		0.22	0.32		0.2	0.037	J	0.2
Nitrobenzene	NC	NC	NC	ND		0.94	ND		0.86	ND		0.2	-		-	-		-
NDPA/DPA	NC	NC	NC	ND		0.84	ND		0.77	ND		0.18	-		-	-		-
n-Nitrosodi-n-propylamine	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Bis(2-ethylhexyl)phthalate	NC	NC	NC	13		1	ND		0.96	ND		0.22	-		-	-		-
Butyl benzyl phthalate	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Di-n-butylphthalate	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Di-n-octylphthalate	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Diethyl phthalate	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Dimethyl phthalate	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Benzo(a)anthracene	1	1	1	11		0.63	ND		0.58	0.073	J	0.13	1.9		0.12	0.81		0.12
Benzo(a)pyrene	1	22	1	8		0.84	ND		0.77	0.068	J	0.18	2		0.16	0.88		0.16
Benzo(b)fluoranthene	1	1.7	1	11		0.63	ND		0.58	0.094	J	0.13	2.6		0.12	1.1		0.12
Benzo(k)fluoranthene	0.8	1.7	3.9	4.1		0.63	ND		0.58	ND		0.13	0.9		0.12	0.4		0.12
Chrysene	1	1	3.9	9.3		0.63	ND		0.58	0.076	J	0.13	1.8		0.12	0.78		0.12
Acenaphthylene	100	107	100	0.36	J	0.84	ND		0.77	ND		0.18	0.24		0.16	0.24		0.16
Anthracene	100	1000	100	7.2		0.63	ND		0.58	ND		0.13	0.88		0.12	0.35		0.12
Benzo(ghi)perylene	100	1000	100	4.2		0.84	ND		0.77	0.054	J	0.18	1.4		0.16	0.64		0.16
Fluorene	30	386	100	4.8		1	ND		0.96	ND		0.22	0.46		0.2	0.1	J	0.2
Phenanthrene	100	1000	100	25		0.63	ND		0.58	0.072	J	0.13	2.8		0.12	1		0.12
Dibenzo(a,h)anthracene	0.33	1000	0.33	1.4		0.63	ND		0.58	ND		0.13	0.32		0.12	0.16		0.12
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	5.2		0.84	ND		0.77	0.049	J	0.18	1.5		0.16	0.7		0.16
Pyrene	100	1000	100	17		0.63	ND		0.58	0.12	J	0.13	3.3		0.12	1.4		0.12
Biphenyl	NC	NC	NC	0.36	J	2.4	ND		2.2	ND		0.5	-		-	-		-
4-Chloroaniline	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
2-Nitroaniline	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
3-Nitroaniline	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
4-Nitroaniline	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Dibenzofuran	NC	210	59	3.2		1	ND		0.96	ND		0.22	-		-	-		-
2-Methylnaphthalene	NC	NC	NC	1.2	J	1.3	ND		1.2	ND		0.26	-		-	-		-
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Acetophenone	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
2,4,6-Trichlorophenol	NC	NC	NC	ND		0.63	ND		0.58	ND		0.13	-		-	-		-
p-Chloro-m-cresol	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
2-Chlorophenol	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
2,4-Dichlorophenol	NC	NC	NC	ND		0.94	ND		0.86	ND		0.2	-		-	-		-
2,4-Dimethylphenol	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
2-Nitrophenol	NC	NC	NC	ND		2.3	ND		2.1	ND		0.47	-		-	-		-
4-Nitrophenol	NC	NC	NC	ND		1.5	ND		1.3	ND		0.31	-		-	-		-
2,4-Dinitrophenol	NC	NC	NC	ND		5	ND		4.6	ND		1	-		-	-		-
4,6-Dinitro-o-cresol	NC	NC	NC	ND		2.7	ND		2.5	ND		0.57	-		-	-		-
Pentachlorophenol	NC	0.8	6.7	ND		0.84	ND		0.77	ND		0.18	-		-	-		-
Phenol	NC	0.33	100	ND		1	ND		0.96	ND		0.22	-		-	-		-
2-Methylphenol	NC	0.33	100	ND		1	ND		0.96	ND		0.22	-		-	-		-
3-Methylphenol/4-Methylphenol	NC	0.33	100	0.16	J	1.5	ND		1.4	ND		0.32	-		-	-		-
2,4,5-Trichlorophenol	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-

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SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B5			DT-B6			DT-W4			T-1			T-2		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1830930-01			L1835570-01			L1835570-02			L1802318-01			L1802318-02		
COLLECTION DATE:				8/8/2018			9/7/2018			9/7/2018			1/22/2018			1/22/2018		
SAMPLE DEPTH (FT):				11-11.5			10.5-11			7-7.5			7.5-8			7.5-8		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Benzoic Acid	NC	NC	NC	ND		3.4	ND		3.1	ND		0.71	-		-	-		-
Benzyl Alcohol	NC	NC	NC	ND		1	ND		0.96	ND		0.22	-		-	-		-
Carbazole	NC	NC	NC	4.5		1	ND		0.96	ND		0.22	-		-	-		-
POLYCHLORINATED BIPHENYLS (PCBs)																		
Aroclor 1016	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1221	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1232	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1242	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1248	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1254	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1260	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1262	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1268	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PCBs, Total	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PETROLEUM HYDROCARBON (TPH)																		
DROD (C9-C44)	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
PESTICIDES																		
Delta-BHC	NC	0.25	100	-		-	-		-	-		-	-		-	-		-
Lindane	NC	0.1	1.3	-		-	-		-	-		-	-		-	-		-
Alpha-BHC	NC	0.02	0.48	-		-	-		-	-		-	-		-	-		-
Beta-BHC	NC	0.09	0.36	-		-	-		-	-		-	-		-	-		-
Heptachlor	NC	0.38	2.1	-		-	-		-	-		-	-		-	-		-
Aldrin	NC	0.19	0.097	-		-	-		-	-		-	-		-	-		-
Heptachlor epoxide	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin	NC	0.06	11	-		-	-		-	-		-	-		-	-		-
Endrin aldehyde	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin ketone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dieldrin	NC	0.1	0.2	-		-	-		-	-		-	-		-	-		-
4,4'-DDD	NC	17	8.9	-		-	-		-	-		-	-		-	-		-
4,4'-DDT	NC	14	13	-		-	-		-	-		-	-		-	-		-
4,4'-DDE	NC	136	7.9	-		-	-		-	-		-	-		-	-		-
Endosulfan I	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan II	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan sulfate	NC	1000	24	-		-	-		-	-		-	-		-	-		-
Methoxychlor	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Toxaphene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
cis-Chlordane	NC	2.9	4.2	-		-	-		-	-		-	-		-	-		-
trans-Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	8650		10	325		44.8	3900		10.6	-		-	-		-
Beryllium, Total	NC	47	72	0.29	J	0.5	ND		2.24	0.117	J	0.532	-		-	-		-
Cadmium, Total	NC	7.5	4.3	0.84	J	1	ND		4.48	1.52		1.06	-		-	-		-
Calcium, Total	NC	NC	NC	8000		10	18300		44.8	7330		10.6	-		-	-		-
Chromium, Trivalent	NC	NC	36	-		-	-		-	-		-	-		-	-		-
Chromium, Total	NC	NC	NC	17.1		1	1.34	J	4.48	12.8		1.06	-		-	-		-
Cobalt, Total	NC	NC	NC	7.81		2	ND		8.95	3.86		2.13	-		-	-		-

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P = The relative percent difference (RPD) between the two columns exceeds the method-specified criteria
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			DT-B5			DT-B6			DT-W4			T-1			T-2		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1830930-01			L1835570-01			L1835570-02			L1802318-01			L1802318-02		
COLLECTION DATE:				8/8/2018			9/7/2018			9/7/2018			1/22/2018			1/22/2018		
SAMPLE DEPTH (FT):				11-11.5			10.5-11			7-7.5			7.5-8			7.5-8		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Copper, Total	NC	1720	270	26.8		1	6		4.48	34.3		1.06	-		-	-		-
Iron, Total	NC	NC	NC	24600		5	1730		22.4	37900		5.32	-		-	-		-
Lead, Total	NC	450	400	695		5	1.21	J	22.4	1320		5.32	-		-	-		-
Magnesium, Total	NC	NC	NC	3940		10	2980		44.8	1830		10.6	-		-	-		-
Manganese, Total	NC	2000	2000	923		1	62.8		4.48	215		1.06	-		-	-		-
Mercury, Total	NC	0.73	0.81	0.146		0.081	ND		0.375	0.373		0.086	-		-	-		-
Nickel, Total	NC	130	310	14.8		2.5	2.55	J	11.2	44.9		2.66	-		-	-		-
Potassium, Total	NC	NC	NC	1820		250	112	J	1120	620		266	-		-	-		-
Selenium, Total	NC	4	180	0.3	J	2	1.79	J	8.95	2.38		2.13	-		-	-		-
Silver, Total	NC	8.3	180	ND		1	ND		4.48	ND		1.06	-		-	-		-
Sodium, Total	NC	NC	NC	93.7	J	200	127	J	895	86.7	J	213	-		-	-		-
Thallium, Total	NC	NC	NC	ND		2	ND		8.95	ND		2.13	-		-	-		-
Vanadium, Total	NC	NC	NC	23.6		1	2.73	J	4.48	17.5		1.06	-		-	-		-
Zinc, Total	NC	2480	10000	192		5	9.53	J	22.4	330		5.32	-		-	-		-

Notes:
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Exceedances (if any) are highlighted
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			T-3			T-4			B-15-7			B-16-7.5			B-17-6		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1802318-03			L1802318-04			L1602181-26			L1602181-28			L1602181-30		
COLLECTION DATE:				1/22/2018			1/22/2018			1/26/2016			1/26/2016			1/26/2016		
SAMPLE DEPTH (FT):				7.5-8			7.5-8			7-7.5			7.5-8			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS																		
Methylene chloride	NC	0.05	100	-		-	-		-	-		-	-		-	-		-
1,1-Dichloroethane	NC	0.27	26	-		-	-		-	-		-	-		-	-		-
Chloroform	NC	0.37	49	-		-	-		-	-		-	-		-	-		-
Carbon tetrachloride	NC	0.76	2.4	-		-	-		-	-		-	-		-	-		-
1,2-Dichloropropane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dibromochloromethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,1,2-Trichloroethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Tetrachloroethene	NC	1.3	19	-		-	-		-	-		-	-		-	-		-
Chlorobenzene	NC	1.1	100	-		-	-		-	-		-	-		-	-		-
Trichlorofluoromethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,2-Dichloroethane	NC	0.02	3.1	-		-	-		-	-		-	-		-	-		-
1,1,1-Trichloroethane	NC	0.68	100	-		-	-		-	-		-	-		-	-		-
Bromodichloromethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
trans-1,3-Dichloropropene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
cis-1,3-Dichloropropene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,3-Dichloropropene, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,1-Dichloropropene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Bromoform	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,1,2,2-Tetrachloroethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Benzene	0.06	0.06	4.8	ND		0.0013	ND		0.0012	-		-	-		-	-		-
Toluene	0.7	0.7	100	ND		0.0019	ND		0.0019	-		-	-		-	-		-
Ethylbenzene	1	1	41	ND		0.0013	ND		0.0012	-		-	-		-	-		-
Chloromethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Bromomethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Vinyl chloride	NC	0.02	0.9	-		-	-		-	-		-	-		-	-		-
Chloroethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,1-Dichloroethene	NC	0.33	100	-		-	-		-	-		-	-		-	-		-
trans-1,2-Dichloroethene	NC	0.19	100	-		-	-		-	-		-	-		-	-		-
Trichloroethene	NC	0.47	21	-		-	-		-	-		-	-		-	-		-
1,2-Dichlorobenzene	NC	1.1	100	-		-	-		-	-		-	-		-	-		-
1,3-Dichlorobenzene	NC	2.4	49	-		-	-		-	-		-	-		-	-		-
1,4-Dichlorobenzene	NC	1.8	13	-		-	-		-	-		-	-		-	-		-
Methyl tert butyl ether	0.93	0.93	100	ND		0.0026	ND		0.0025	-		-	-		-	-		-
p/m-Xylene	0.26	NC	NC	ND		0.0026	ND		0.0025	-		-	-		-	-		-
o-Xylene	0.26	NC	NC	ND		0.0026	ND		0.0025	-		-	-		-	-		-
Xylenes, Total	0.26	1.6	100	ND		0.0026	ND		0.0025	-		-	-		-	-		-
cis-1,2-Dichloroethene	NC	0.25	100	-		-	-		-	-		-	-		-	-		-
1,2-Dichloroethene, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dibromomethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Styrene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dichlorodifluoromethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Acetone	NC	0.05	100	-		-	-		-	-		-	-		-	-		-
Carbon disulfide	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2-Butanone	NC	0.12	100	-		-	-		-	-		-	-		-	-		-
Vinyl acetate	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
4-Methyl-2-pentanone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,2,3-Trichloropropane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-

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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			T-3			T-4			B-15-7			B-16-7.5			B-17-6		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1802318-03			L1802318-04			L1602181-26			L1602181-28			L1602181-30		
COLLECTION DATE:				1/22/2018			1/22/2018			1/26/2016			1/26/2016			1/26/2016		
SAMPLE DEPTH (FT):				7.5-8			7.5-8			7-7.5			7.5-8			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Hexanone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Bromochloromethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2,2-Dichloropropane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,2-Dibromoethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,3-Dichloropropane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,1,1,2-Tetrachloroethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Bromobenzene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
n-Butylbenzene	12	12	100	ND		0.0013	ND		0.0012	-		-	-		-	-		-
sec-Butylbenzene	11	11	100	ND		0.0013	ND		0.0012	-		-	-		-	-		-
tert-Butylbenzene	5.9	5.9	100	ND		0.0064	ND		0.0063	-		-	-		-	-		-
o-Chlorotoluene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
p-Chlorotoluene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,2-Dibromo-3-chloropropane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Hexachlorobutadiene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Isopropylbenzene	2.3	NC	NC	ND		0.0013	ND		0.0012	-		-	-		-	-		-
p-Isopropyltoluene	10	NC	NC	ND		0.0013	ND		0.0012	-		-	-		-	-		-
Naphthalene	12	12	100	ND		0.0064	ND		0.0063	-		-	-		-	-		-
Acrylonitrile	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
n-Propylbenzene	3.9	3.9	100	ND		0.0013	ND		0.0012	-		-	-		-	-		-
1,2,3-Trichlorobenzene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,2,4-Trichlorobenzene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,3,5-Trimethylbenzene	8.4	8.4	52	ND		0.0064	ND		0.0063	-		-	-		-	-		-
1,2,4-Trimethylbenzene	3.6	3.6	52	ND		0.0064	ND		0.0063	-		-	-		-	-		-
1,4-Dioxane	NC	0.1	13	-		-	-		-	-		-	-		-	-		-
p-Diethylbenzene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
p-Ethyltoluene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
1,2,4,5-Tetramethylbenzene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Ethyl ether	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
trans-1,4-Dichloro-2-butene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
SEMIVOLATILE ORGANICS																		
Acenaphthene	20	98	100	0.14	J	0.16	0.17		0.14	0.81		0.21	ND		0.22	0.4		0.19
1,2,4-Trichlorobenzene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Hexachlorobenzene	NC	3.2	1.2	-		-	-		-	-		-	-		-	-		-
Bis(2-chloroethyl)ether	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2-Chloronaphthalene	NC	NC	NC	-		-	-		-	ND		0.26	ND		0.28	ND		0.24
1,2-Dichlorobenzene	NC	1.1	100	-		-	-		-	-		-	-		-	-		-
1,3-Dichlorobenzene	NC	2.4	49	-		-	-		-	-		-	-		-	-		-
1,4-Dichlorobenzene	NC	1.8	13	-		-	-		-	-		-	-		-	-		-
3,3'-Dichlorobenzidine	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2,4-Dinitrotoluene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2,6-Dinitrotoluene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Fluoranthene	100	1000	100	3.6		0.12	3.3		0.11	4.2		0.16	8.3		0.16	3.6		0.14
4-Chlorophenyl phenyl ether	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
4-Bromophenyl phenyl ether	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Bis(2-chloroisopropyl)ether	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Bis(2-chloroethoxy)methane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Hexachlorobutadiene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Hexachlorocyclopentadiene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-

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TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			T-3			T-4			B-15-7			B-16-7.5			B-17-6		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1802318-03			L1802318-04			L1602181-26			L1602181-28			L1602181-30		
COLLECTION DATE:				1/22/2018			1/22/2018			1/26/2016			1/26/2016			1/26/2016		
SAMPLE DEPTH (FT):				7.5-8			7.5-8			7-7.5			7.5-8			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Hexachloroethane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Isophorone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Naphthalene	12	12	100	0.082	J	0.19	0.079	J	0.18	0.74		0.26	0.51		0.28	0.082	J	0.24
Nitrobenzene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
NDPA/DPA	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
n-Nitrosodi-n-propylamine	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Bis(2-ethylhexyl)phthalate	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Butyl benzyl phthalate	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Di-n-butylphthalate	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Di-n-octylphthalate	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Diethyl phthalate	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dimethyl phthalate	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Benzo(a)anthracene	1	1	1	1.6		0.12	1.7		0.11	1.9		0.16	5.4		0.16	1.7		0.14
Benzo(a)pyrene	1	22	1	1.7		0.16	1.7		0.14	1.6		0.21	4.6		0.22	1.5		0.19
Benzo(b)fluoranthene	1	1.7	1	2.6		0.12	2.4		0.11	2.2		0.16	5.5		0.16	2		0.14
Benzo(k)fluoranthene	0.8	1.7	3.9	0.77		0.12	0.73		0.11	0.7		0.16	2.4		0.16	0.69		0.14
Chrysene	1	1	3.9	1.7		0.12	1.6		0.11	1.6		0.16	5		0.16	1.5		0.14
Acenaphthylene	100	107	100	0.58		0.16	0.25		0.14	ND		0.21	ND		0.22	0.13	J	0.19
Anthracene	100	1000	100	0.64		0.12	0.66		0.11	1.7		0.16	3.5		0.16	0.82		0.14
Benzo(ghi)perylene	100	1000	100	1.3		0.16	1.2		0.14	0.95		0.21	2.7		0.22	0.92		0.19
Fluorene	30	386	100	0.16	J	0.19	0.2		0.18	1.3		0.26	2.7		0.28	0.5		0.24
Phenanthrene	100	1000	100	2.1		0.12	2		0.11	4.7		0.16	10		0.16	2.2		0.14
Dibenzo(a,h)anthracene	0.33	1000	0.33	0.34		0.12	0.31		0.11	0.27		0.16	0.61		0.16	0.27		0.14
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	1.4		0.16	1.3		0.14	0.88		0.21	2.5		0.22	0.84		0.19
Pyrene	100	1000	100	2.9		0.12	2.7		0.11	4.5		0.16	8.8		0.16	2.9		0.14
Biphenyl	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
4-Chloroaniline	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2-Nitroaniline	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
3-Nitroaniline	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
4-Nitroaniline	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dibenzofuran	NC	210	59	-		-	-		-	-		-	-		-	-		-
2-Methylnaphthalene	NC	NC	NC	-		-	-		-	0.32		0.31	3.6		0.33	0.03	J	0.29
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Acetophenone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2,4,6-Trichlorophenol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
p-Chloro-m-cresol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2-Chlorophenol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2,4-Dichlorophenol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2,4-Dimethylphenol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2-Nitrophenol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
4-Nitrophenol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
2,4-Dinitrophenol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
4,6-Dinitro-o-cresol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Pentachlorophenol	NC	0.8	6.7	-		-	-		-	-		-	-		-	-		-
Phenol	NC	0.33	100	-		-	-		-	-		-	-		-	-		-
2-Methylphenol	NC	0.33	100	-		-	-		-	-		-	-		-	-		-
3-Methylphenol/4-Methylphenol	NC	0.33	100	-		-	-		-	-		-	-		-	-		-
2,4,5-Trichlorophenol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-

Notes:
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			T-3			T-4			B-15-7			B-16-7.5			B-17-6		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1802318-03			L1802318-04			L1602181-26			L1602181-28			L1602181-30		
COLLECTION DATE:				1/22/2018			1/22/2018			1/26/2016			1/26/2016			1/26/2016		
SAMPLE DEPTH (FT):				7.5-8			7.5-8			7-7.5			7.5-8			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Benzoic Acid	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Benzyl Alcohol	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Carbazole	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
POLYCHLORINATED BIPHENYLS (PCBs)																		
Aroclor 1016	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1221	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1232	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1242	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1248	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1254	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1260	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1262	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
Aroclor 1268	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PCBs, Total	NC	3.2	1	-		-	-		-	-		-	-		-	-		-
PETROLEUM HYDROCARBON (TPH)																		
DROD (C9-C44)	NC	NC	NC	-		-	-		-	16200		5130	7110		2640	-		-
PESTICIDES																		
Delta-BHC	NC	0.25	100	-		-	-		-	-		-	-		-	-		-
Lindane	NC	0.1	1.3	-		-	-		-	-		-	-		-	-		-
Alpha-BHC	NC	0.02	0.48	-		-	-		-	-		-	-		-	-		-
Beta-BHC	NC	0.09	0.36	-		-	-		-	-		-	-		-	-		-
Heptachlor	NC	0.38	2.1	-		-	-		-	-		-	-		-	-		-
Aldrin	NC	0.19	0.097	-		-	-		-	-		-	-		-	-		-
Heptachlor epoxide	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin	NC	0.06	11	-		-	-		-	-		-	-		-	-		-
Endrin aldehyde	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Endrin ketone	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Dieldrin	NC	0.1	0.2	-		-	-		-	-		-	-		-	-		-
4,4'-DDD	NC	17	8.9	-		-	-		-	-		-	-		-	-		-
4,4'-DDT	NC	14	13	-		-	-		-	-		-	-		-	-		-
4,4'-DDE	NC	136	7.9	-		-	-		-	-		-	-		-	-		-
Endosulfan I	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan II	NC	102	24	-		-	-		-	-		-	-		-	-		-
Endosulfan sulfate	NC	1000	24	-		-	-		-	-		-	-		-	-		-
Methoxychlor	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Toxaphene	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
cis-Chlordane	NC	2.9	4.2	-		-	-		-	-		-	-		-	-		-
trans-Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Chlordane	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Beryllium, Total	NC	47	72	-		-	-		-	-		-	-		-	-		-
Cadmium, Total	NC	7.5	4.3	-		-	-		-	-		-	-		-	-		-
Calcium, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Chromium, Trivalent	NC	NC	36	-		-	-		-	-		-	-		-	-		-
Chromium, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Cobalt, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-

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CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			T-3			T-4			B-15-7			B-16-7.5			B-17-6		
LAB ID:				L1802318-03			L1802318-04			L1602181-26			L1602181-28			L1602181-30		
COLLECTION DATE:	CP-51	Protection of Grounwater	Restricted-Residential Use	1/22/2018			1/22/2018			1/26/2016			1/26/2016			1/26/2016		
SAMPLE DEPTH (FT):				7.5-8			7.5-8			7-7.5			7.5-8			6-6.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Copper, Total	NC	1720	270	-		-	-		-	-		-	-		-	-		-
Iron, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Lead, Total	NC	450	400	-		-	-		-	-		-	-		-	-		-
Magnesium, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Manganese, Total	NC	2000	2000	-		-	-		-	-		-	-		-	-		-
Mercury, Total	NC	0.73	0.81	-		-	-		-	-		-	-		-	-		-
Nickel, Total	NC	130	310	-		-	-		-	-		-	-		-	-		-
Potassium, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Selenium, Total	NC	4	180	-		-	-		-	-		-	-		-	-		-
Silver, Total	NC	8.3	180	-		-	-		-	-		-	-		-	-		-
Sodium, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Thallium, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Vanadium, Total	NC	NC	NC	-		-	-		-	-		-	-		-	-		-
Zinc, Total	NC	2480	10000	-		-	-		-	-		-	-		-	-		-

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CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			B-21-1-1.5			B-24-16-16.5			SB-3			SB-6			SB-8			SB-9		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1726979-05			L1726979-12			L1301211-04			L1301211-02			L1301211-01			L1301211-05		
COLLECTION DATE:				8/3/2017			8/3/2017			1/17/2013			1/17/2013			1/17/2013			1/18/2013		
SAMPLE DEPTH (FT):				>2			16-16.5			8.5-9.5			7-8			7-8			8.5-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS																					
Methylene chloride	NC	0.05	100	-		-	ND		0.011												
1,1-Dichloroethane	NC	0.27	26	-		-	ND		0.0016												
Chloroform	NC	0.37	49	-		-	ND		0.0016												
Carbon tetrachloride	NC	0.76	2.4	-		-	ND		0.0011												
1,2-Dichloropropane	NC	NC	NC	-		-	ND		0.0038												
Dibromochloromethane	NC	NC	NC	-		-	ND		0.0011												
1,1,2-Trichloroethane	NC	NC	NC	-		-	ND		0.0016												
Tetrachloroethene	NC	1.3	19	-		-	ND		0.0011												
Chlorobenzene	NC	1.1	100	-		-	ND		0.0011												
Trichlorofluoromethane	NC	NC	NC	-		-	ND		0.0054												
1,2-Dichloroethane	NC	0.02	3.1	-		-	ND		0.0011												
1,1,1-Trichloroethane	NC	0.68	100	-		-	ND		0.0011												
Bromodichloromethane	NC	NC	NC	-		-	ND		0.0011												
trans-1,3-Dichloropropene	NC	NC	NC	-		-	ND		0.0011												
cis-1,3-Dichloropropene	NC	NC	NC	-		-	ND		0.0011												
1,3-Dichloropropene, Total	NC	NC	NC	-		-	ND		0.0011												
1,1-Dichloropropene	NC	NC	NC	-		-	ND		0.0054												
Bromoform	NC	NC	NC	-		-	ND		0.0043												
1,1,2,2-Tetrachloroethane	NC	NC	NC	-		-	ND		0.0011												
Benzene	0.06	0.06	4.8	-		-	ND		0.0011												
Toluene	0.7	0.7	100	-		-	ND		0.0016												
Ethylbenzene	1	1	41	-		-	ND		0.0011												
Chloromethane	NC	NC	NC	-		-	ND		0.0054												
Bromomethane	NC	NC	NC	-		-	ND		0.0022												
Vinyl chloride	NC	0.02	0.9	-		-	ND		0.0022												
Chloroethane	NC	NC	NC	-		-	ND		0.0022												
1,1-Dichloroethene	NC	0.33	100	-		-	ND		0.0011												
trans-1,2-Dichloroethene	NC	0.19	100	-		-	ND		0.0016												
Trichloroethene	NC	0.47	21	-		-	ND		0.0011												
1,2-Dichlorobenzene	NC	1.1	100	-		-	ND		0.0054												
1,3-Dichlorobenzene	NC	2.4	49	-		-	ND		0.0054												
1,4-Dichlorobenzene	NC	1.8	13	-		-	ND		0.0054												
Methyl tert butyl ether	0.93	0.93	100	-		-	ND		0.0022												
p/m-Xylene	0.26	NC	NC	-		-	ND		0.0022												
o-Xylene	0.26	NC	NC	-		-	ND		0.0022												
Xylenes, Total	0.26	1.6	100	-		-	ND		0.0022												
cis-1,2-Dichloroethene	NC	0.25	100	-		-	ND		0.0011												
1,2-Dichloroethene, Total	NC	NC	NC	-		-	ND		0.0011												
Dibromomethane	NC	NC	NC	-		-	ND		0.011												
Styrene	NC	NC	NC	-		-	ND		0.0022												
Dichlorodifluoromethane	NC	NC	NC	-		-	ND		0.011												
Acetone	NC	0.05	100	-		-	0.035		0.011							0.057			0.53		
Carbon disulfide	NC	NC	NC	-		-	ND		0.011												
2-Butanone	NC	0.12	100	-		-	0.0052	J	0.011										0.13		
Vinyl acetate	NC	NC	NC	-		-	ND		0.011												
4-Methyl-2-pentanone	NC	NC	NC	-		-	ND		0.011												
1,2,3-Trichloropropane	NC	NC	NC	-		-	ND		0.011												

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WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			B-21-1-1.5			B-24-16-16.5			SB-3			SB-6			SB-8			SB-9		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1726979-05			L1726979-12			L1301211-04			L1301211-02			L1301211-01			L1301211-05		
COLLECTION DATE:				8/3/2017			8/3/2017			1/17/2013			1/17/2013			1/17/2013			1/18/2013		
SAMPLE DEPTH (FT):				>2			16-16.5			8.5-9.5			7-8			7-8			8.5-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Hexanone	NC	NC	NC	-		-	ND		0.011												
Bromochloromethane	NC	NC	NC	-		-	ND		0.0054												
2,2-Dichloropropane	NC	NC	NC	-		-	ND		0.0054												
1,2-Dibromoethane	NC	NC	NC	-		-	ND		0.0043												
1,3-Dichloropropane	NC	NC	NC	-		-	ND		0.0054												
1,1,1,2-Tetrachloroethane	NC	NC	NC	-		-	ND		0.0011												
Bromobenzene	NC	NC	NC	-		-	ND		0.0054												
n-Butylbenzene	12	12	100	-		-	ND		0.0011												
sec-Butylbenzene	11	11	100	-		-	ND		0.0011												
tert-Butylbenzene	5.9	5.9	100	-		-	ND		0.0054												
o-Chlorotoluene	NC	NC	NC	-		-	ND		0.0054												
p-Chlorotoluene	NC	NC	NC	-		-	ND		0.0054												
1,2-Dibromo-3-chloropropane	NC	NC	NC	-		-	ND		0.0054												
Hexachlorobutadiene	NC	NC	NC	-		-	ND		0.0054												
Isopropylbenzene	2.3	NC	NC	-		-	ND		0.0011												
p-Isopropyltoluene	10	NC	NC	-		-	ND		0.0011												
Naphthalene	12	12	100	-		-	0.00044	J	0.0054												
Acrylonitrile	NC	NC	NC	-		-	ND		0.011												
n-Propylbenzene	3.9	3.9	100	-		-	ND		0.0011												
1,2,3-Trichlorobenzene	NC	NC	NC	-		-	ND		0.0054												
1,2,4-Trichlorobenzene	NC	NC	NC	-		-	ND		0.0054												
1,3,5-Trimethylbenzene	8.4	8.4	52	-		-	ND		0.0054												
1,2,4-Trimethylbenzene	3.6	3.6	52	-		-	0.0003	J	0.0054												
1,4-Dioxane	NC	0.1	13	-		-	ND		0.043												
p-Diethylbenzene	NC	NC	NC	-		-	ND		0.0043												
p-Ethyltoluene	NC	NC	NC	-		-	ND		0.0043												
1,2,4,5-Tetramethylbenzene	NC	NC	NC	-		-	ND		0.0043												
Ethyl ether	NC	NC	NC	-		-	ND		0.0054												
trans-1,4-Dichloro-2-butene	NC	NC	NC	-		-	ND		0.0054												
SEMIVOLATILE ORGANICS																					
Acenaphthene	20	98	100	1.1		0.15	1.3		0.78												
1,2,4-Trichlorobenzene	NC	NC	NC	ND		0.18	-	-	-												
Hexachlorobenzene	NC	3.2	1.2	ND		0.11	-	-	-												
Bis(2-chloroethyl)ether	NC	NC	NC	ND		0.17	-	-	-												
2-Chloronaphthalene	NC	NC	NC	ND		0.18	ND		0.97												
1,2-Dichlorobenzene	NC	1.1	100	ND		0.18	-	-	-												
1,3-Dichlorobenzene	NC	2.4	49	ND		0.18	-	-	-												
1,4-Dichlorobenzene	NC	1.8	13	ND		0.18	-	-	-												
3,3'-Dichlorobenzidine	NC	NC	NC	ND		0.18	-	-	-												
2,4-Dinitrotoluene	NC	NC	NC	ND		0.18	-	-	-												
2,6-Dinitrotoluene	NC	NC	NC	ND		0.18	-	-	-												
Fluoranthene	100	1000	100	42		1.1	15		0.58												
4-Chlorophenyl phenyl ether	NC	NC	NC	ND		0.18	-	-	-												
4-Bromophenyl phenyl ether	NC	NC	NC	ND		0.18	-	-	-												
Bis(2-chloroisopropyl)ether	NC	NC	NC	ND		0.22	-	-	-												
Bis(2-chloroethoxy)methane	NC	NC	NC	ND		0.2	-	-	-												
Hexachlorobutadiene	NC	NC	NC	ND		0.18	-	-	-												
Hexachlorocyclopentadiene	NC	NC	NC	ND		0.53	-	-	-												

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P = The relative percent difference (RPD) between the two columns exceeds the method-specified criteria
I = The lower value for the two columns has been reported due to obvious interference
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			B-21-1-1.5			B-24-16-16.5			SB-3			SB-6			SB-8			SB-9		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1726979-05			L1726979-12			L1301211-04			L1301211-02			L1301211-01			L1301211-05		
COLLECTION DATE:				8/3/2017			8/3/2017			1/17/2013			1/17/2013			1/17/2013			1/18/2013		
SAMPLE DEPTH (FT):				>2			16-16.5			8.5-9.5			7-8			7-8			8.5-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Hexachloroethane	NC	NC	NC	ND		0.15	-	-	-												
Isophorone	NC	NC	NC	ND		0.17	-	-	-												
Naphthalene	12	12	100	0.066	J	0.18	0.47	J	0.97												
Nitrobenzene	NC	NC	NC	ND		0.17	-	-	-												
NDPA/DPA	NC	NC	NC	ND		0.15	-	-	-												
n-Nitrosodi-n-propylamine	NC	NC	NC	ND		0.18	-	-	-												
Bis(2-ethylhexyl)phthalate	NC	NC	NC	ND		0.18	-	-	-												
Butyl benzyl phthalate	NC	NC	NC	ND		0.18	-	-	-												
Di-n-butylphthalate	NC	NC	NC	ND		0.18	-	-	-												
Di-n-octylphthalate	NC	NC	NC	ND		0.18	-	-	-												
Diethyl phthalate	NC	NC	NC	ND		0.18	-	-	-												
Dimethyl phthalate	NC	NC	NC	ND		0.18	-	-	-												
Benzo(a)anthracene	1	1	1	18		1.1	9		0.58				8.3								
Benzo(a)pyrene	1	22	1	16		1.5	9.5		0.78				5.3								
Benzo(b)fluoranthene	1	1.7	1	19		1.1	13		0.58				6.7								
Benzo(k)fluoranthene	0.8	1.7	3.9	4.4		0.11	3.6		0.58				2.9								
Chrysene	1	1	3.9	17		1.1	9		0.58				7.2								
Acenaphthylene	100	107	100	0.83		0.15	1.2		0.78												
Anthracene	100	1000	100	10		1.1	2.9		0.58												
Benzo(ghi)perylene	100	1000	100	6.9		0.15	4.6		0.78												
Fluorene	30	386	100	2.3		0.18	1.5		0.97												
Phenanthrene	100	1000	100	24		1.1	10		0.58												
Dibenzo(a,h)anthracene	0.33	1000	0.33	1.8		0.11	1.3		0.58				0.63								
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	10		1.5	5.5		0.78				2.1								
Pyrene	100	1000	100	34		1.1	15		0.58												
Biphenyl	NC	NC	NC	ND		0.42	-	-	-												
4-Chloroaniline	NC	NC	NC	ND		0.18	-	-	-												
2-Nitroaniline	NC	NC	NC	ND		0.18	-	-	-												
3-Nitroaniline	NC	NC	NC	ND		0.18	-	-	-												
4-Nitroaniline	NC	NC	NC	ND		0.18	-	-	-												
Dibenzofuran	NC	210	59	0.83		0.18	-	-	-												
2-Methylnaphthalene	NC	NC	NC	0.048	J	0.22	0.16	J	1.2												
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	ND		0.18	-	-	-												
Acetophenone	NC	NC	NC	ND		0.18	-	-	-												
2,4,6-Trichlorophenol	NC	NC	NC	ND		0.11	-	-	-												
p-Chloro-m-cresol	NC	NC	NC	ND		0.18	-	-	-												
2-Chlorophenol	NC	NC	NC	ND		0.18	-	-	-												
2,4-Dichlorophenol	NC	NC	NC	ND		0.17	-	-	-												
2,4-Dimethylphenol	NC	NC	NC	ND		0.18	-	-	-												
2-Nitrophenol	NC	NC	NC	ND		0.4	-	-	-												
4-Nitrophenol	NC	NC	NC	ND		0.26	-	-	-												
2,4-Dinitrophenol	NC	NC	NC	ND		0.89	-	-	-												
4,6-Dinitro-o-cresol	NC	NC	NC	ND		0.48	-	-	-												
Pentachlorophenol	NC	0.8	6.7	ND		0.15	-	-	-												
Phenol	NC	0.33	100	ND		0.18	-	-	-												
2-Methylphenol	NC	0.33	100	ND		0.18	-	-	-												
3-Methylphenol/4-Methylphenol	NC	0.33	100	ND		0.27	-	-	-												
2,4,5-Trichlorophenol	NC	NC	NC	ND		0.18	-	-	-												

Notes:
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Exceedances (if any) are highlighted
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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			B-21-1-1.5			B-24-16-16.5			SB-3			SB-6			SB-8			SB-9		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1726979-05			L1726979-12			L1301211-04			L1301211-02			L1301211-01			L1301211-05		
COLLECTION DATE:				8/3/2017			8/3/2017			1/17/2013			1/17/2013			1/17/2013			1/18/2013		
SAMPLE DEPTH (FT):				>2			16-16.5			8.5-9.5			7-8			7-8			8.5-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Benzoic Acid	NC	NC	NC	ND		0.6	-	-	-												
Benzyl Alcohol	NC	NC	NC	ND		0.18	-	-	-												
Carbazole	NC	NC	NC	0.27		0.18	-	-	-												
POLYCHLORINATED BIPHENYLS (PCBs)																					
Aroclor 1016	NC	3.2	1	ND		0.0372	-		-												
Aroclor 1221	NC	3.2	1	ND		0.0372	-		-												
Aroclor 1232	NC	3.2	1	ND		0.0372	-		-												
Aroclor 1242	NC	3.2	1	ND		0.0372	-		-												
Aroclor 1248	NC	3.2	1	ND		0.0372	-		-												
Aroclor 1254	NC	3.2	1	ND		0.0372	-		-												
Aroclor 1260	NC	3.2	1	0.00894	J	0.0372	-		-												
Aroclor 1262	NC	3.2	1	ND		0.0372	-		-												
Aroclor 1268	NC	3.2	1	0.00388	J	0.0372	-		-												
PCBs, Total	NC	3.2	1	0.0128	J	0.0372	-		-												
PETROLEUM HYDROCARBON (TPH)																					
DROD (C9-C44)	NC	NC	NC	-		-	-		-												
PESTICIDES																					
Delta-BHC	NC	0.25	100	ND		0.00173	-		-												
Lindane	NC	0.1	1.3	ND		0.000722	-		-												
Alpha-BHC	NC	0.02	0.48	ND		0.000722	-		-												
Beta-BHC	NC	0.09	0.36	ND		0.00173	-		-												
Heptachlor	NC	0.38	2.1	ND		0.000866	-		-												
Aldrin	NC	0.19	0.097	ND		0.00173	-		-												
Heptachlor epoxide	NC	NC	NC	ND		0.00325	-		-												
Endrin	NC	0.06	11	ND		0.000722	-		-												
Endrin aldehyde	NC	NC	NC	ND		0.00216	-		-												
Endrin ketone	NC	NC	NC	ND		0.00173	-		-												
Dieldrin	NC	0.1	0.2	0.002		0.00108	-		-												
4,4'-DDD	NC	17	8.9	0.025	P	0.00173	-		-												
4,4'-DDT	NC	14	13	0.0361		0.00173	-		-												
4,4'-DDE	NC	136	7.9	0.00958		0.00325	-		-												
Endosulfan I	NC	102	24	ND		0.00173	-		-												
Endosulfan II	NC	102	24	ND		0.00173	-		-												
Endosulfan sulfate	NC	1000	24	ND		0.000722	-		-												
Methoxychlor	NC	NC	NC	ND		0.00325	-		-												
Toxaphene	NC	NC	NC	ND		0.0325	-		-												
cis-Chlordane	NC	2.9	4.2	0.00484		0.00216	-		-												
trans-Chlordane	NC	NC	NC	0.00516	PI	0.00216	-		-												
Chlordane	NC	NC	NC	0.084	P	0.0141	-		-												
TOTAL METALS																					
Aluminum, Total	NC	NC	NC	7660		8.91	-		-												
Beryllium, Total	NC	47	72	ND		0.446	-		-												
Cadmium, Total	NC	7.5	4.3	1.1		0.891	-		-												
Calcium, Total	NC	NC	NC	14500		8.91	-		-												
Chromium, Trivalent	NC	NC	36	-		-	-		-	37											
Chromium, Total	NC	NC	NC	7.77		0.891	-		-												
Cobalt, Total	NC	NC	NC	10.3		1.78	-		-												

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TABLE 3 - REMAINING SOIL SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	NYSDEC Soil Cleanup Objectives			B-21-1-1.5			B-24-16-16.5			SB-3			SB-6			SB-8			SB-9		
LAB ID:	CP-51	Protection of Grounwater	Restricted-Residential Use	L1726979-05			L1726979-12			L1301211-04			L1301211-02			L1301211-01			L1301211-05		
COLLECTION DATE:				8/3/2017			8/3/2017			1/17/2013			1/17/2013			1/17/2013			1/18/2013		
SAMPLE DEPTH (FT):				>2			16-16.5			8.5-9.5			7-8			7-8			8.5-9.5		
SAMPLE MATRIX:				SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Copper, Total	NC	1720	270	109		0.891	-		-												
Iron, Total	NC	NC	NC	22600		4.46	-		-												
Lead, Total	NC	450	400	41.2		4.46	-		-												
Magnesium, Total	NC	NC	NC	4640		8.91	-		-												
Manganese, Total	NC	2000	2000	300		0.891	-		-												
Mercury, Total	NC	0.73	0.81	0.04	J	0.07	-		-												
Nickel, Total	NC	130	310	8.27		2.23	-		-												
Potassium, Total	NC	NC	NC	1870		223	-		-												
Selenium, Total	NC	4	180	0.579	J	1.78	-		-										5.2		
Silver, Total	NC	8.3	180	ND		0.891	-		-												
Sodium, Total	NC	NC	NC	291		178	-		-												
Thallium, Total	NC	NC	NC	ND		1.78	-		-												
Vanadium, Total	NC	NC	NC	29.7		0.891	-		-												
Zinc, Total	NC	2480	10000	76.1		4.46	-		-												

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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	GT2-GW			MW-101			MW-101			MW-101			MW-101			MW-102			MW-102			MW-102		
LAB ID:		L1822903-03			L1916916-11			L1933894-05			L1949711-13			L2002621-10			L1916916-05			L1933894-12			L1949711-11		
COLLECTION DATE:		6/18/2018			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS																									
Methylene chloride	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroform	7	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Carbon tetrachloride	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloropropane	1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Dibromochloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,2-Trichloroethane	1	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5
Tetrachloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichlorofluoromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethane	0.6	0.2	J	0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,1-Trichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromodichloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
cis-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,3-Dichloropropene, Total	NC	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloropropene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromoform	50	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,1,2,2-Tetrachloroethane	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Benzene	1	0.62		0.5	0.18	J	0.5	0.16	J	0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Toluene	5	0.7	J	2.5	1.4	J	2.5	ND		2.5	1.9	J	2.5	ND		2.5	ND		2.5	7.9		2.5	ND		2.5
Ethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloromethane	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromomethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Vinyl chloride	2	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methyl tert butyl ether	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p/m-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Xylenes, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
cis-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethene, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Acrylonitrile	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Acetone	50	11		5	47		5	33		5	21		5	ND		5	2.6	J	5	6.6		5	5.5		5
Carbon disulfide	60	ND		5	3.2	J	5	ND		5	3.7	J	5	ND		5	ND		5	ND		5	1.6	J	5

Notes:
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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	GT2-GW			MW-101			MW-101			MW-101			MW-101			MW-102			MW-102			MW-102		
LAB ID:		L1822903-03			L1916916-11			L1933894-05			L1949711-13			L2002621-10			L1916916-05			L1933894-12			L1949711-11		
COLLECTION DATE:		6/18/2018			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Butanone	50	ND		5	4.8	J	5	7.5		5	ND		5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NC	ND		5	ND		5	1.9	J	5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
2,2-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromoethane	0.0006	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,1,2-Tetrachloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
tert-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Isopropylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Isopropyltoluene	5	ND		2.5	25		2.5	9.8		2.5	0.89	J	2.5	ND		2.5	ND		2.5	0.75	J	2.5	ND		2.5
Naphthalene	10	ND		2.5	2.1	J	2.5	3.4		2.5	1.6	J	2.5	0.76	J	2.5	ND		2.5	1.5	J	2.5	1.2	J	2.5
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,3-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dioxane	NC	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250
p-Diethylbenzene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
p-Ethyltoluene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2,4,5-Tetramethylbenzene	5	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Ethyl ether	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
trans-1,4-Dichloro-2-butene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4 DIOXANE																									
1,4-Dioxane	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
PERFLUORINATED ALKYL ACIDS																									
Perfluorobutanoic Acid (PFBA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoropentanoic Acid (PFPeA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorobutanesulfonic Acid (PFBS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorohexanoic Acid (PFHxA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanoic Acid (PFHpA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorohexanesulfonic Acid (PFHxS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanoic Acid (PFOA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanesulfonic Acid (PFHpS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorononanoic Acid (PFNA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonic Acid (PFOS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-

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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	GT2-GW			MW-101			MW-101			MW-101			MW-101			MW-102			MW-102			MW-102		
LAB ID:		L1822903-03			L1916916-11			L1933894-05			L1949711-13			L2002621-10			L1916916-05			L1933894-12			L1949711-11		
COLLECTION DATE:		6/18/2018			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Perfluorodecanoic Acid (PFDA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroundecanoic Acid (PFUnA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorodecanesulfonic Acid (PFDS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonamide (FOSA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorododecanoic Acid (PFDoA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorotridecanoic Acid (PFTrDA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorotetradecanoic Acid (PFTA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
PFOA/PFOS, Total	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
SEMIVOLATILE ORGANICS																									
1,2,4-Trichlorobenzene	5	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Bis(2-chloroethyl)ether	1	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
1,2-Dichlorobenzene	3	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichlorobenzene	3	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
1,4-Dichlorobenzene	3	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
3,3'-Dichlorobenzidine	5	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
2,4-Dinitrotoluene	5	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
2,6-Dinitrotoluene	5	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
4-Chlorophenyl phenyl ether	NC	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
4-Bromophenyl phenyl ether	NC	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroisopropyl)ether	5	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroethoxy)methane	5	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Hexachlorocyclopentadiene	5	ND		19	ND		20	ND		100	ND		20	ND		20	ND		20	ND		20	ND		20
Isophorone	50	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Nitrobenzene	0.4	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
NDPA/DPA	50	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
n-Nitrosodi-n-propylamine	NC	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Bis(2-ethylhexyl)phthalate	5	ND		2.9	2.9	J	3	ND		15	ND		3	3.9		3	2	J	3	1.9	J	3	ND		3
Butyl benzyl phthalate	50	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Di-n-butylphthalate	50	ND		4.8	6		5	ND		25	ND		5	ND		5	2.4	J	5	1.1	J	5	ND		5
Di-n-octylphthalate	50	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Diethyl phthalate	50	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Dimethyl phthalate	50	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Biphenyl	NC	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
4-Chloroaniline	5	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
2-Nitroaniline	5	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
3-Nitroaniline	5	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
4-Nitroaniline	5	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Dibenzofuran	NC	ND		1.9	0.96	J	2	ND		10	0.86	J	2	ND		2	ND		2	1.2	J	2	ND		2
1,2,4,5-Tetrachlorobenzene	5	ND		9.6	ND		10	ND		50	ND		10	ND		10	ND		10	ND		10	ND		10
Acetophenone	NC	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
2,4,6-Trichlorophenol	NC	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
p-Chloro-m-cresol	NC	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2

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COLLECTION DATE:		6/18/2018			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Chlorophenol	NC	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
2,4-Dichlorophenol	1	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
2,4-Dimethylphenol	50	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
2-Nitrophenol	NC	ND		9.6	ND		10	ND		50	ND		10	ND		10	ND		10	ND		10	ND		10
4-Nitrophenol	NC	ND		9.6	ND		10	ND		50	ND		10	ND		10	ND		10	ND		10	ND		10
2,4-Dinitrophenol	10	ND		19	ND		20	ND		100	ND		20	ND		20	ND		20	ND		20	ND		20
4,6-Dinitro-o-cresol	NC	ND		9.6	ND		10	ND		50	ND		10	ND		10	ND		10	ND		10	ND		10
Phenol	1	ND		4.8	100		5	11	J	25	ND		5	ND		5	ND		5	8		5	ND		5
2-Methylphenol	NC	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
3-Methylphenol/4-Methylphenol	NC	ND		4.8	2.2	J	5	14	J	25	0.81	J	5	ND		5	ND		5	5.5		5	ND		5
2,4,5-Trichlorophenol	NC	ND		4.8	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5	ND		5
Benzoic Acid	NC	ND		48	15	J	50	ND		250	ND		50	ND		50	ND		50	83		50	ND		50
Benzyl Alcohol	NC	ND		1.9	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2	ND		2
Carbazole	NC	ND		1.9	0.65	J	2	ND		10	0.91	J	2	0.81	J	2	ND		2	1.8	J	2	1.1	J	2
Acenaphthene	20	ND		0.1	2.6		0.1	3		0.1	2.3		0.1	1.7		0.1	0.59		0.1	2.3		0.1	1.9		0.1
2-Chloronaphthalene	10	ND		0.19	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2
Fluoranthene	50	0.52		0.1	2.8		0.1	3.6		0.1	2		0.1	2.8		0.1	1.4		0.1	14		0.1	2.6		0.1
Hexachlorobutadiene	0.5	ND		0.48	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Naphthalene	10	0.27		0.1	1.4		0.1	3		0.1	1.6		0.1	0.73		0.1	0.36		0.1	2.5		0.1	1.6		0.1
Benzo(a)anthracene	0.002	0.17		0.1	1.2		0.1	1.6		0.1	0.83		0.1	1.2		0.1	0.75		0.1	6.9		0.1	1.2		0.1
Benzo(a)pyrene	0	0.16		0.1	0.86		0.1	1.3		0.1	0.62		0.1	1		0.1	0.56		0.1	6.5		0.1	1.1		0.1
Benzo(b)fluoranthene	0.002	0.24		0.1	0.72		0.1	1.7		0.1	0.86		0.1	1.4		0.1	0.48		0.1	8.6		0.1	1.5		0.1
Benzo(k)fluoranthene	0.002	0.1		0.1	0.92		0.1	0.62		0.1	0.25		0.1	0.46		0.1	0.59		0.1	3.1		0.1	0.41		0.1
Chrysene	0.002	0.21		0.1	1.2		0.1	1.4		0.1	0.69		0.1	0.93		0.1	0.75		0.1	6		0.1	0.95		0.1
Acenaphthylene	NC	ND		0.1	ND		0.1	0.26		0.1	0.16		0.1	0.16		0.1	0.04	J	0.1	0.52		0.1	ND		0.1
Anthracene	50	0.12		0.1	1.1		0.1	1.5		0.1	1.1		0.1	0.92		0.1	0.42		0.1	3.5		0.1	0.86		0.1
Benzo(ghi)perylene	NC	0.07	J	0.1	0.59		0.1	0.74		0.1	0.35		0.1	0.61		0.1	0.41		0.1	3.8		0.1	0.65		0.1
Fluorene	50	ND		0.1	2.6		0.1	3.2		0.1	2.4		0.1	1.8		0.1	0.47		0.1	2.9		0.1	2		0.1
Phenanthrene	50	0.21		0.1	4.3		0.1	5.9		0.1	3.7		0.1	3.1		0.1	1		0.1	12		0.1	3.3		0.1
Dibenzo(a,h)anthracene	NC	ND		0.1	0.22		0.1	0.24		0.1	0.09	J	0.1	0.17		0.1	0.15		0.1	1.1		0.1	0.18		0.1
Indeno(1,2,3-cd)pyrene	0.002	0.08	J	0.1	0.56		0.1	0.88		0.1	0.4		0.1	0.66		0.1	0.39		0.1	4.6		0.1	0.74		0.1
Pyrene	50	0.52		0.1	2.3		0.1	3.3		0.1	2.4		0.1	2.3		0.1	1.1		0.1	12		0.1	2		0.1
2-Methylnaphthalene	NC	ND		0.1	0.5		0.1	0.46		0.1	0.35		0.1	0.04	J	0.1	0.13		0.1	0.7		0.1	0.47		0.1
Pentachlorophenol	1	ND		0.77	0.42	J	0.8	ND		0.8	ND		0.8	ND		0.8	0.18	J	0.8	ND		0.8	0.25	J	0.8
Hexachlorobenzene	0.04	ND		0.77	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
Hexachloroethane	5	ND		0.77	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
TOTAL METALS																									
Aluminum, Total	NC	-		-	13600		10	2600		10	670		10	1900		10	4960		10	25300		10	39500		10
Antimony, Total	3	-		-	3.14	J	4	ND		4	0.83	J	4	0.6	J	4	1.07	J	4	0.69	J	4	2.47	J	4
Arsenic, Total	25	-		-	23.51		0.5	14.06		0.5	25.5		0.5	7.43		0.5	5.07		0.5	18.37		0.5	49.11		0.5
Barium, Total	1000	-		-	475.4		0.5	268.7		0.5	273.1		0.5	314.2		0.5	278.4		0.5	1142		0.5	1136		0.5
Beryllium, Total	3	-		-	0.66		0.5	0.13	J	0.5	ND		0.5	0.11	J	0.5	0.2	J	0.5	1.71		0.5	1.65		0.5
Cadmium, Total	5	-		-	1.7		0.2	0.34		0.2	0.12	J	0.2	0.17	J	0.2	0.24		0.2	1.7		0.2	1.83		0.2
Calcium, Total	NC	-		-	270000		100	222000		100	158000		100	285000		100	106000		100	220000		100	157000		100
Chromium, Total	50	-		-	42.14		1	8.34		1	2.74		1	6.68		1	14.58		1	95.1		1	103.1		1
Cobalt, Total	NC	-		-	17.83		0.5	11.93		0.5	3.56		0.5	4.89		0.5	4.35		0.5	26.41		0.5	29.34		0.5
Copper, Total	200	-		-	52.45		1	13.56		1	7.75		1	11.21		1	33.73		1	91.99		1	211.1		1
Iron, Total	300	-		-	37200		50	43600		60	36500		50	23400		50	12300		50	76700		60	87200		50
Lead, Total	25	-		-	1106		50	272.9		1	41.36		1	164.7		1	223.4		1	1870		1	2774		1
Magnesium, Total	35000	-		-	42800		70	37400		70	26700		70	46800		70	14800		70	45000		70	40000		70
Manganese, Total	300	-		-	2790		1	1868		1	2531		1	1206		1	496.6		1.5	2217		1	2057		1

Notes:
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Exceedances (if any) are highlighted
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	GT2-GW			MW-101			MW-101			MW-101			MW-101			MW-102			MW-102			MW-102		
LAB ID:		L1822903-03			L1916916-11			L1933894-05			L1949711-13			L2002621-10			L1916916-05			L1933894-12			L1949711-11		
COLLECTION DATE:		6/18/2018			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
Mercury, Total	0.7	-		-	0.25		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	0.14	J	0.2	0.73		0.2
Nickel, Total	100	-		-	25.68		2	6.12		2	4.42		2	6.68		2	9.22		2	51.93		2	78.44		2
Potassium, Total	NC	-		-	24000		100	22400		100	23200		100	21700		100	14100		100	19700		100	22500		100
Selenium, Total	10	-		-	2.48	J	5	ND		5	ND		5	ND		5	2.01	J	5	9.08		5	11.8		5
Silver, Total	50	-		-	0.92		0.4	0.19	J	0.4	ND		0.4	ND		0.4	ND		0.4	0.19	J	0.4	0.36	J	0.4
Sodium, Total	20000	-		-	54000		100	132000		100	163000		100	106000		100	85800		100	67100		100	79500		100
Thallium, Total	0.5	-		-	0.37	J	0.5	ND		0.5	ND		0.5	0.41	J	1	ND		0.5	0.42	J	0.5	0.67		0.5
Vanadium, Total	NC	-		-	41.86		5	9.67		5	2.77	J	5	8.18		5	14.28		5	112.9		5	115.2		5
Zinc, Total	2000	-		-	818.7		500	191		10	54.24		10	196.9		10	90.15		10	956.6		10	1061		10

Notes:
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Exceedances (if any) are highlighted
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-102			MW-103			MW-103			MW-103			MW-103			MW-104			MW-104			MW-104		
LAB ID:		L2002621-09			L1916916-09			L1933894-08			L1949711-05			L2002621-12			L1916916-06			L1933894-06			L1949711-08		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS																									
Methylene chloride	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroform	7	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Carbon tetrachloride	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloropropane	1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Dibromochloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,2-Trichloroethane	1	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5
Tetrachloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichlorofluoromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethane	0.6	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,1-Trichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromodichloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
cis-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,3-Dichloropropene, Total	NC	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloropropene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromoform	50	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,1,2,2-Tetrachloroethane	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Benzene	1	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Toluene	5	ND		2.5	ND		2.5	ND		2.5	4.7		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Ethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloromethane	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromomethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Vinyl chloride	2	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methyl tert butyl ether	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p/m-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Xylenes, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
cis-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethene, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Acrylonitrile	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Acetone	50	2.6	J	5	ND		5	2.9	J	5	ND		5	1.7	J	5	ND		5	ND		5	2.5	J	5
Carbon disulfide	60	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5

Notes:
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ND = Not Detected above laboratory's reporting limit (RL)
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- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-102			MW-103			MW-103			MW-103			MW-103			MW-104			MW-104			MW-104		
LAB ID:		L2002621-09			L1916916-09			L1933894-08			L1949711-05			L2002621-12			L1916916-06			L1933894-06			L1949711-08		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Butanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
2,2-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromoethane	0.0006	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,1,2-Tetrachloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
tert-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Isopropylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Isopropyltoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Naphthalene	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,3-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dioxane	NC	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250
p-Diethylbenzene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
p-Ethyltoluene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2,4,5-Tetramethylbenzene	5	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Ethyl ether	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
trans-1,4-Dichloro-2-butene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4 DIOXANE																									
1,4-Dioxane	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
PERFLUORINATED ALKYL ACIDS																									
Perfluorobutanoic Acid (PFBA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoropentanoic Acid (PFPeA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorobutanesulfonic Acid (PFBS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorohexanoic Acid (PFHxA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanoic Acid (PFHpA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorohexanesulfonic Acid (PFHxS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanoic Acid (PFOA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanesulfonic Acid (PFHpS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorononanoic Acid (PFNA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonic Acid (PFOS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-

Notes:
Results reported in micrograms per liter (ug/L) or parts per billion
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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-102			MW-103			MW-103			MW-103			MW-103			MW-104			MW-104			MW-104		
LAB ID:		L2002621-09			L1916916-09			L1933894-08			L1949711-05			L2002621-12			L1916916-06			L1933894-06			L1949711-08		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Perfluorodecanoic Acid (PFDA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroundecanoic Acid (PFUnA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorodecanesulfonic Acid (PFDS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonamide (FOSA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorododecanoic Acid (PFDoA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorotridecanoic Acid (PFTrDA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorotetradecanoic Acid (PFTA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
PFOA/PFOS, Total	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
SEMIVOLATILE ORGANICS																									
1,2,4-Trichlorobenzene	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bis(2-chloroethyl)ether	1	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2-Dichlorobenzene	3	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichlorobenzene	3	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,4-Dichlorobenzene	3	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
3,3'-Dichlorobenzidine	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2,4-Dinitrotoluene	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2,6-Dinitrotoluene	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Chlorophenyl phenyl ether	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
4-Bromophenyl phenyl ether	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroisopropyl)ether	5	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroethoxy)methane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Hexachlorocyclopentadiene	5	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20
Isophorone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Nitrobenzene	0.4	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
NDPA/DPA	50	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
n-Nitrosodi-n-propylamine	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bis(2-ethylhexyl)phthalate	5	2.4	J	3	ND		3	ND		3	ND		3	ND		3	ND		3	ND		3	ND		3
Butyl benzyl phthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Di-n-butylphthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Di-n-octylphthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Diethyl phthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Dimethyl phthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Biphenyl	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
4-Chloroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
3-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Dibenzofuran	NC	0.71	J	2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2,4,5-Tetrachlorobenzene	5	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
Acetophenone	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2,4,6-Trichlorophenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
p-Chloro-m-cresol	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2

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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-102			MW-103			MW-103			MW-103			MW-103			MW-104			MW-104			MW-104		
LAB ID:		L2002621-09			L1916916-09			L1933894-08			L1949711-05			L2002621-12			L1916916-06			L1933894-06			L1949711-08		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Chlorophenol	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
2,4-Dichlorophenol	1	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2,4-Dimethylphenol	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Nitrophenol	NC	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
4-Nitrophenol	NC	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
2,4-Dinitrophenol	10	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20
4,6-Dinitro-o-cresol	NC	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
Phenol	1	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Methylphenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
3-Methylphenol/4-Methylphenol	NC	ND		5	ND		5	0.66	J	5	1.2	J	5	ND		5	ND		5	ND		5	ND		5
2,4,5-Trichlorophenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Benzoic Acid	NC	12	J	50	ND		50	ND		50	ND		50	ND		50	ND		50	ND		50	ND		50
Benzyl Alcohol	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Carbazole	NC	0.83	J	2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Acenaphthene	20	1.2		0.1	ND		0.1	0.03	J	0.1	0.11		0.1	0.08	J	0.1	ND		0.1	ND		0.1	ND		0.1
2-Chloronaphthalene	10	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2
Fluoranthene	50	12		0.1	0.04	J	0.1	0.04	J	0.1	1.8		0.1	1.5		0.1	0.03	J	0.1	ND		0.1	0.16		0.1
Hexachlorobutadiene	0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Naphthalene	10	0.52		0.1	ND		0.1	ND		0.1	0.15		0.1	0.07	J	0.1	ND		0.1	ND		0.1	ND		0.1
Benzo(a)anthracene	0.002	6.1		0.1	ND		0.1	0.03	J	0.1	1.1		0.1	0.88		0.1	ND		0.1	ND		0.1	0.11		0.1
Benzo(a)pyrene	0	5.9		0.1	ND		0.1	ND		0.1	1		0.1	0.93		0.1	0.02	J	0.1	ND		0.1	0.1	J	0.1
Benzo(b)fluoranthene	0.002	7.4		0.1	ND		0.1	ND		0.1	1.5		0.1	1.3		0.1	0.01	J	0.1	ND		0.1	0.13		0.1
Benzo(k)fluoranthene	0.002	2.7		0.1	0.02	J	0.1	ND		0.1	0.44		0.1	0.41		0.1	0.01	J	0.1	ND		0.1	0.06	J	0.1
Chrysene	0.002	4.3		0.1	ND		0.1	0.02	J	0.1	0.88		0.1	0.7		0.1	ND		0.1	ND		0.1	0.08	J	0.1
Acenaphthylene	NC	0.36		0.1	ND		0.1	ND		0.1	0.13		0.1	0.12		0.1	ND		0.1	ND		0.1	ND		0.1
Anthracene	50	2.5		0.1	ND		0.1	0.03	J	0.1	0.3		0.1	0.26		0.1	ND		0.1	ND		0.1	0.02	J	0.1
Benzo(ghi)perylene	NC	3.5		0.1	ND		0.1	ND		0.1	0.71		0.1	0.63		0.1	0.01	J	0.1	ND		0.1	0.07	J	0.1
Fluorene	50	1.7		0.1	ND		0.1	0.04	J	0.1	0.21		0.1	0.15		0.1	ND		0.1	ND		0.1	0.02	J	0.1
Phenanthrene	50	7.3		0.1	0.04	J	0.1	0.05	J	0.1	0.85		0.1	0.73		0.1	0.03	J	0.1	ND		0.1	0.06	J	0.1
Dibenzo(a,h)anthracene	NC	0.93		0.1	ND		0.1	ND		0.1	0.17		0.1	0.17		0.1	ND		0.1	ND		0.1	0.02	J	0.1
Indeno(1,2,3-cd)pyrene	0.002	4		0.1	ND		0.1	ND		0.1	0.77		0.1	0.68		0.1	0.01	J	0.1	ND		0.1	0.08	J	0.1
Pyrene	50	9.8		0.1	0.03	J	0.1	0.04	J	0.1	1.6		0.1	1.3		0.1	0.03	J	0.1	ND		0.1	0.15		0.1
2-Methylnaphthalene	NC	0.21		0.1	ND		0.1	ND		0.1	0.06	J	0.1	0.03	J	0.1	ND		0.1	ND		0.1	ND		0.1
Pentachlorophenol	1	0.32	J	0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
Hexachlorobenzene	0.04	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
Hexachloroethane	5	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
TOTAL METALS																									
Aluminum, Total	NC	21800		10	4350		10	103		10	18000		10	40800		10	8660		10	113		10	27500		10
Antimony, Total	3	1.76	J	4	1.06	J	4	0.68	J	4	1.02	J	4	0.93	J	4	1.11	J	4	ND		4	0.55	J	4
Arsenic, Total	25	23.17		0.5	6.21		0.5	6.64		0.5	15.61		0.5	14.87		0.5	5.09		0.5	0.35	J	0.5	16.61		0.5
Barium, Total	1000	604.9		0.5	298.8		0.5	243.2		0.5	417.6		0.5	443.7		0.5	339.9		0.5	172		0.5	795.4		0.5
Beryllium, Total	3	0.83		0.5	0.36	J	0.5	ND		0.5	1.63		0.5	2.43		0.5	0.47	J	0.5	ND		0.5	1.93		0.5
Cadmium, Total	5	1.17		0.2	1.05		0.2	0.14	J	0.2	2.22		0.2	3.12		0.2	0.56		0.2	0.07	J	0.2	2.11		0.2
Calcium, Total	NC	157000		100	138000		100	149000		100	108000		100	147000		100	70000		100	70100		100	150000		100
Chromium, Total	50	62.11		1	11		1	0.76	J	1	29.46		1	53.76		1	24.32		1	1.2		1	59.02		1
Cobalt, Total	NC	18.04		0.5	4.23		0.5	6.5		0.5	17.79		0.5	26.37		0.5	10.61		0.5	0.71		0.5	28.91		0.5
Copper, Total	200	119.8		1	35.28		1	1.56		1	75.16		1	155.4		1	53.5		1	5.85		1	185		1
Iron, Total	300	42500		50	8570		50	6810		60	41900		50	52200		50	17200		50	457		60	65100		50
Lead, Total	25	1339		1	98.28		1	5.54		1	235.6		1	432.3		1	83.02		1	0.55	J	1	281.4		1
Magnesium, Total	35000	25300		70	25800		70	30000		70	26700		70	35900		70	21800		70	15000		70	44400		70
Manganese, Total	300	1215		1	373.5		1	3436		1	3480		1	2492		1	2202		1	2171		1	4241		1

Notes:
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NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-102			MW-103			MW-103			MW-103			MW-103			MW-104			MW-104			MW-104		
LAB ID:		L2002621-09			L1916916-09			L1933894-08			L1949711-05			L2002621-12			L1916916-06			L1933894-06			L1949711-08		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Mercury, Total	0.7	0.21		0.2	ND		0.2	ND		0.2	0.39		0.2	0.33		0.2	ND		0.2	ND		0.2	0.31		0.2
Nickel, Total	100	47.29		2	11.04		2	3.8		2	27.6		2	48.86		2	21.72		2	2.79		2	60.3		2
Potassium, Total	NC	17800		100	15600		100	12700		100	12100		100	13100		100	7600		100	5530		100	18100		100
Selenium, Total	10	2.59	J	5	2.07	J	5	ND		5	12.3		5	8.42		5	2.99	J	5	ND		5	14.5		5
Silver, Total	50	0.27	J	0.4	ND		0.4	ND		0.4	0.18	J	0.4	0.33	J	0.4	ND		0.4	ND		0.4	0.32	J	0.4
Sodium, Total	20000	221000		100	62500		100	59400		100	39500		100	34900		100	77000		100	74700		100	108000		100
Thallium, Total	0.5	0.54	J	1	0.14	J	0.5	ND		0.5	0.43	J	0.5	0.87	J	1	0.31	J	0.5	ND		0.5	0.56		0.5
Vanadium, Total	NC	65.01		5	12.66		5	1.64	J	5	38.2		5	66.08		5	32.69		5	ND		5	92.29		5
Zinc, Total	2000	541.1		10	226.3		10	39.24		10	604		10	1010		10	96.08		10	ND		10	340.4		10

Notes:
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ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-104			MW-105			MW-105			MW-105			MW-105			MW-106			MW-106			MW-106		
LAB ID:		L2002621-07			L1916916-04			L1933894-04			L1949711-07			L2002621-08			L1916916-01			L1933894-03			L1949711-04		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS																									
Methylene chloride	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroform	7	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Carbon tetrachloride	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloropropane	1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Dibromochloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,2-Trichloroethane	1	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5
Tetrachloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichlorofluoromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethane	0.6	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,1-Trichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromodichloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
cis-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,3-Dichloropropene, Total	NC	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloropropene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromoform	50	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,1,2,2-Tetrachloroethane	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Benzene	1	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Toluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	1.2	J	2.5	ND		2.5
Ethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloromethane	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromomethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Vinyl chloride	2	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methyl tert butyl ether	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p/m-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Xylenes, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
cis-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethene, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Acrylonitrile	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Acetone	50	ND		5	ND		5	2.2	J	5	ND		5	ND		5	ND		5	ND		5	2.6	J	5
Carbon disulfide	60	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	1.1	J	5

Notes:
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- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-104			MW-105			MW-105			MW-105			MW-105			MW-106			MW-106			MW-106		
LAB ID:		L2002621-07			L1916916-04			L1933894-04			L1949711-07			L2002621-08			L1916916-01			L1933894-03			L1949711-04		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Butanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
2,2-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromoethane	0.0006	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,1,2-Tetrachloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
tert-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Isopropylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Isopropyltoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	1.2	J	2.5	0.71	J	2.5	ND		2.5
Naphthalene	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,3-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dioxane	NC	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250
p-Diethylbenzene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
p-Ethyltoluene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2,4,5-Tetramethylbenzene	5	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Ethyl ether	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
trans-1,4-Dichloro-2-butene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4 DIOXANE																									
1,4-Dioxane	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
PERFLUORINATED ALKYL ACIDS																									
Perfluorobutanoic Acid (PFBA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoropentanoic Acid (PFPeA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorobutanesulfonic Acid (PFBS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorohexanoic Acid (PFHxA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanoic Acid (PFHpA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorohexanesulfonic Acid (PFHxS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanoic Acid (PFOA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanesulfonic Acid (PFHpS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorononanoic Acid (PFNA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonic Acid (PFOS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-

Notes:
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ND = Not Detected above laboratory's reporting limit (RL)
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- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-104			MW-105			MW-105			MW-105			MW-105			MW-106			MW-106			MW-106		
LAB ID:		L2002621-07			L1916916-04			L1933894-04			L1949711-07			L2002621-08			L1916916-01			L1933894-03			L1949711-04		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Perfluorodecanoic Acid (PFDA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroundecanoic Acid (PFUnA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorodecanesulfonic Acid (PFDS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonamide (FOSA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorododecanoic Acid (PFDoA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorotridecanoic Acid (PFTrDA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorotetradecanoic Acid (PFTA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
PFOA/PFOS, Total	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
SEMIVOLATILE ORGANICS																									
1,2,4-Trichlorobenzene	5	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Bis(2-chloroethyl)ether	1	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
1,2-Dichlorobenzene	3	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
1,3-Dichlorobenzene	3	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
1,4-Dichlorobenzene	3	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
3,3'-Dichlorobenzidine	5	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
2,4-Dinitrotoluene	5	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
2,6-Dinitrotoluene	5	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
4-Chlorophenyl phenyl ether	NC	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
4-Bromophenyl phenyl ether	NC	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
Bis(2-chloroisopropyl)ether	5	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
Bis(2-chloroethoxy)methane	5	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Hexachlorocyclopentadiene	5	ND		20	ND		20	ND		40	ND		20	ND		20	ND		20	ND		40	ND		20
Isophorone	50	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Nitrobenzene	0.4	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
NDPA/DPA	50	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
n-Nitrosodi-n-propylamine	NC	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Bis(2-ethylhexyl)phthalate	5	ND		3	3		3	ND		6	ND		3	2.1	J	3	2.3	J	3	ND		6	ND		3
Butyl benzyl phthalate	50	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Di-n-butylphthalate	50	ND		5	ND		5	ND		10	ND		5	ND		5	3.6	J	5	ND		10	ND		5
Di-n-octylphthalate	50	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Diethyl phthalate	50	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Dimethyl phthalate	50	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Biphenyl	NC	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
4-Chloroaniline	5	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
2-Nitroaniline	5	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
3-Nitroaniline	5	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
4-Nitroaniline	5	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Dibenzofuran	NC	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
1,2,4,5-Tetrachlorobenzene	5	ND		10	ND		10	ND		20	ND		10	ND		10	ND		10	ND		20	ND		10
Acetophenone	NC	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
2,4,6-Trichlorophenol	NC	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
p-Chloro-m-cresol	NC	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2

Notes:
Results reported in micrograms per liter (ug/L) or parts per billion
Exceedances (if any) are highlighted
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:		MW-104			MW-105			MW-105			MW-105			MW-105			MW-106			MW-106			MW-106		
LAB ID:		L2002621-07			L1916916-04			L1933894-04			L1949711-07			L2002621-08			L1916916-01			L1933894-03			L1949711-04		
COLLECTION DATE:	Ambient Water Quality Standards	1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Chlorophenol	NC	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
2,4-Dichlorophenol	1	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
2,4-Dimethylphenol	50	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
2-Nitrophenol	NC	ND		10	ND		10	ND		20	ND		10	ND		10	ND		10	ND		20	ND		10
4-Nitrophenol	NC	ND		10	ND		10	ND		20	ND		10	ND		10	ND		10	ND		20	ND		10
2,4-Dinitrophenol	10	ND		20	ND		20	ND		40	ND		20	ND		20	ND		20	ND		40	ND		20
4,6-Dinitro-o-cresol	NC	ND		10	ND		10	ND		20	ND		10	ND		10	ND		10	ND		20	ND		10
Phenol	1	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
2-Methylphenol	NC	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
3-Methylphenol/4-Methylphenol	NC	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
2,4,5-Trichlorophenol	NC	ND		5	ND		5	ND		10	ND		5	ND		5	ND		5	ND		10	ND		5
Benzoic Acid	NC	ND		50	ND		50	ND		100	ND		50	ND		50	ND		50	ND		100	ND		50
Benzyl Alcohol	NC	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
Carbazole	NC	ND		2	ND		2	ND		4	ND		2	ND		2	ND		2	ND		4	ND		2
Acenaphthene	20	0.04	J	0.1	0.29		0.1	0.2		0.1	0.18		0.1	0.2		0.1	0.58		0.1	1.5		0.1	3		0.1
2-Chloronaphthalene	10	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2
Fluoranthene	50	0.82		0.1	0.54		0.1	2.9		0.1	1.3		0.1	1.6		0.1	1		0.1	3.8		0.1	2		0.1
Hexachlorobutadiene	0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Naphthalene	10	ND		0.1	ND		0.1	0.09	J	0.1	0.08	J	0.1	ND		0.1	0.72		0.1	1.5		0.1	0.17		0.1
Benzo(a)anthracene	0.002	0.47		0.1	0.27		0.1	1.4		0.1	0.64		0.1	0.78		0.1	0.5		0.1	1.7		0.1	0.84		0.1
Benzo(a)pyrene	0	0.5		0.1	0.2		0.1	1.4		0.1	0.59		0.1	0.79		0.1	0.38		0.1	1.7		0.1	0.77		0.1
Benzo(b)fluoranthene	0.002	0.64		0.1	0.17		0.1	1.8		0.1	0.84		0.1	1		0.1	0.35		0.1	2.4		0.1	1.1		0.1
Benzo(k)fluoranthene	0.002	0.23		0.1	0.22		0.1	0.72		0.1	0.28		0.1	0.4		0.1	0.4		0.1	0.85		0.1	0.37		0.1
Chrysene	0.002	0.37		0.1	0.25		0.1	1.3		0.1	0.51		0.1	0.63		0.1	0.54		0.1	1.6		0.1	0.75		0.1
Acenaphthylene	NC	0.04	J	0.1	0.04	J	0.1	0.17		0.1	0.08	J	0.1	0.09	J	0.1	0.04	J	0.1	0.2		0.1	0.12		0.1
Anthracene	50	0.12		0.1	0.14		0.1	0.62		0.1	0.34		0.1	0.35		0.1	0.24		0.1	0.74		0.1	0.62		0.1
Benzo(ghi)perylene	NC	0.33		0.1	0.14		0.1	0.83		0.1	0.37		0.1	0.49		0.1	0.29		0.1	1.2		0.1	0.53		0.1
Fluorene	50	0.06	J	0.1	0.17		0.1	0.26		0.1	0.23		0.1	0.25		0.1	0.45		0.1	1.4		0.1	2.7		0.1
Phenanthrene	50	0.38		0.1	0.34		0.1	1.7		0.1	0.46		0.1	0.68		0.1	0.81		0.1	2.4		0.1	0.86		0.1
Dibenzo(a,h)anthracene	NC	0.09	J	0.1	0.05	J	0.1	0.24		0.1	0.09	J	0.1	0.14		0.1	0.1	J	0.1	0.31		0.1	0.12		0.1
Indeno(1,2,3-cd)pyrene	0.002	0.34		0.1	0.13		0.1	0.95		0.1	0.4		0.1	0.53		0.1	0.28		0.1	1.3		0.1	0.58		0.1
Pyrene	50	0.73		0.1	0.48		0.1	2.4		0.1	1.1		0.1	1.4		0.1	0.95		0.1	3.1		0.1	1.6		0.1
2-Methylnaphthalene	NC	ND		0.1	ND		0.1	0.05	J	0.1	0.03	J	0.1	0.03	J	0.1	0.04	J	0.1	0.06	J	0.1	0.06	J	0.1
Pentachlorophenol	1	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
Hexachlorobenzene	0.04	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
Hexachloroethane	5	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
TOTAL METALS																									
Aluminum, Total	NC	15200		10	530		10	4650		10	6900		10	3010		10	1940		10	7040		10	12200		10
Antimony, Total	3	1.19	J	4	0.81	J	4	0.66	J	4	1.81	J	4	1.2	J	4	1.19	J	4	0.68	J	4	1.77	J	4
Arsenic, Total	25	7.65		0.5	2.06		0.5	5.43		0.5	11.48		0.5	3.65		0.5	3.84		0.5	8.8		0.5	15.78		0.5
Barium, Total	1000	423.2		0.5	309.2		0.5	489.4		0.5	480.5		0.5	317.7		0.5	364.2		0.5	744.7		0.5	969.6		0.5
Beryllium, Total	3	0.73		0.5	ND		0.5	0.2	J	0.5	0.3	J	0.5	0.11	J	0.5	0.16	J	0.5	0.57		0.5	1.07		0.5
Cadmium, Total	5	0.91		0.2	0.15	J	0.2	0.45		0.2	0.6		0.2	0.2		0.2	0.1	J	0.2	0.47		0.2	1.09		0.2
Calcium, Total	NC	99600		100	149000		100	147000		100	112000		100	101000		100	143000		100	191000		100	224000		100
Chromium, Total	50	39.77		1	1.58		1	11.11		1	17.08		1	7.65		1	5.65		1	25.53		1	34.39		1
Cobalt, Total	NC	15.72		0.5	1.85		0.5	5		0.5	6.83		0.5	3.14		0.5	2.5		0.5	7.61		0.5	13.07		0.5
Copper, Total	200	114.4		1	12.66		1	45.79		1	58.2		1	26.15		1	12.04		1	43.57		1	83.05		1
Iron, Total	300	38100		50	1660		50	10100		60	17200		50	10400		50	11000		50	37000		60	52100		50
Lead, Total	25	94.14		1	15.26		1	143		1	181.4		1	70.53		1	39.46		1	152		1	278.8		1
Magnesium, Total	35000	30600		70	20700		70	22300		70	18600		70	13900		70	26100		70	34600		70	37000		70
Manganese, Total	300	3068		1	965.2		1.5	1075		1	1267		1	1125		1	903.4		1.5	1761		1	1578		1

Notes:
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ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-104			MW-105			MW-105			MW-105			MW-105			MW-106			MW-106			MW-106		
LAB ID:		L2002621-07			L1916916-04			L1933894-04			L1949711-07			L2002621-08			L1916916-01			L1933894-03			L1949711-04		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Mercury, Total	0.7	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	0.15	J	0.2
Nickel, Total	100	33.15		2	3.41		2	8.51		2	13.76		2	7.66		2	5.23		2	20.9		2	33.34		2
Potassium, Total	NC	8940		100	12700		100	18600		100	16900		100	14700		100	8450		100	11600		100	14200		100
Selenium, Total	10	2.5	J	5	ND		5	ND		5	3.14	J	5	ND		5	ND		5	3.95	J	5	8.86		5
Silver, Total	50	0.36	J	0.4	ND		0.4	ND		0.4	0.16	J	0.4	ND		0.4	ND		0.4	ND		0.4	0.18	J	0.4
Sodium, Total	20000	51000		100	96000		100	151000		100	190000		100	104000		100	81800		100	45400		100	53600		100
Thallium, Total	0.5	0.57	J	1	ND		0.5	0.19	J	0.5	0.3	J	0.5	0.25	J	1	ND		0.5	0.28	J	0.5	0.42	J	0.5
Vanadium, Total	NC	52.4		5	2.41	J	5	16.36		5	22.86		5	9.79		5	6.23		5	25.81		5	44.48		5
Zinc, Total	2000	137.7		10	23.7		10	139.9		10	197.4		10	78.62		10	86.64		10	311.5		10	885.4		10

Notes:
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Exceedances (if any) are highlighted
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-106			MW-107			MW-107			MW-107			MW-107			MW-108			MW-108		
LAB ID:		L2002621-03			L1916916-03			L1933894-01			L1949711-10			L2002621-05			L1916916-07			L1933894-07		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**r**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS																						
Methylene chloride	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroform	7	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Carbon tetrachloride	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloropropane	1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Dibromochloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,2-Trichloroethane	1	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5
Tetrachloroethene	5	ND		0.5	ND		0.5	0.22	J	0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	0.81	J	2.5
Trichlorofluoromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethane	0.6	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,1-Trichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromodichloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
cis-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,3-Dichloropropene, Total	NC	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloropropene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromoform	50	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,1,2,2-Tetrachloroethane	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Benzene	1	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Toluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	2.5		2.5	ND		2.5	ND		2.5
Ethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloromethane	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromomethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Vinyl chloride	2	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methyl tert butyl ether	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p/m-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Xylenes, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
cis-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethene, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Acrylonitrile	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Acetone	50	ND		5	2.4	J	5	2.2	J	5	1.6	J	5	1.5	J	5	3.2	J	5	2.2	J	5
Carbon disulfide	60	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5

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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-106			MW-107			MW-107			MW-107			MW-107			MW-108			MW-108		
LAB ID:		L2002621-03			L1916916-03			L1933894-01			L1949711-10			L2002621-05			L1916916-07			L1933894-07		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**r**	**RL**	**Conc**	**Q**	**RL**
2-Butanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
2,2-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromoethane	0.0006	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,1,2-Tetrachloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
tert-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Isopropylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Isopropyltoluene	5	ND		2.5	ND		2.5	1.7	J	2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Naphthalene	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,3-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dioxane	NC	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250
p-Diethylbenzene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
p-Ethyltoluene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2,4,5-Tetramethylbenzene	5	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Ethyl ether	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
trans-1,4-Dichloro-2-butene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4 DIOXANE																						
1,4-Dioxane	NC	-		-	ND		0.278	-		-	ND		0.15	-		-	-		-	-		-
PERFLUORINATED ALKYL ACIDS																						
Perfluorobutanoic Acid (PFBA)	NC	-		-	0.00358		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluoropentanoic Acid (PFPeA)	NC	-		-	0.00749		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorobutanesulfonic Acid (PFBS)	NC	-		-	0.00485		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorohexanoic Acid (PFHxA)	NC	-		-	0.00557		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanoic Acid (PFHpA)	NC	-		-	0.00421		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorohexanesulfonic Acid (PFHxS)	NC	-		-	0.00522		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorooctanoic Acid (PFOA)	NC	-		-	0.0187		0.00193	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanesulfonic Acid (PFHpS)	NC	-		-	0.000687	J	0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorononanoic Acid (PFNA)	NC	-		-	0.0014	J	0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonic Acid (PFOS)	NC	-		-	0.0345		0.00193	-		-	-		-	-		-	-		-	-		-

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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-106			MW-107			MW-107			MW-107			MW-107			MW-108			MW-108		
LAB ID:		L2002621-03			L1916916-03			L1933894-01			L1949711-10			L2002621-05			L1916916-07			L1933894-07		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**r**	**RL**	**Conc**	**Q**	**RL**
Perfluorodecanoic Acid (PFDA)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluoroundecanoic Acid (PFUnA)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorodecanesulfonic Acid (PFDS)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonamide (FOSA)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorododecanoic Acid (PFDoA)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorotridecanoic Acid (PFTrDA)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
Perfluorotetradecanoic Acid (PFTA)	NC	-		-	ND		0.00193	-		-	-		-	-		-	-		-	-		-
PFOA/PFOS, Total	NC	-		-	0.0532		0.00193	-		-	-		-	-		-	-		-	-		-
SEMIVOLATILE ORGANICS																						
1,2,4-Trichlorobenzene	5	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Bis(2-chloroethyl)ether	1	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
1,2-Dichlorobenzene	3	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
1,3-Dichlorobenzene	3	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
1,4-Dichlorobenzene	3	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
3,3'-Dichlorobenzidine	5	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
2,4-Dinitrotoluene	5	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
2,6-Dinitrotoluene	5	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
4-Chlorophenyl phenyl ether	NC	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
4-Bromophenyl phenyl ether	NC	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroisopropyl)ether	5	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroethoxy)methane	5	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Hexachlorocyclopentadiene	5	ND		20	ND		20	ND		100	ND		20	ND		20	ND		20	ND		20
Isophorone	50	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Nitrobenzene	0.4	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
NDPA/DPA	50	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
n-Nitrosodi-n-propylamine	NC	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Bis(2-ethylhexyl)phthalate	5	ND		3	3		3	ND		15	ND		3	ND		3	2	J	3	ND		3
Butyl benzyl phthalate	50	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Di-n-butylphthalate	50	ND		5	ND		5	ND		25	ND		5	ND		5	1.7	J	5	ND		5
Di-n-octylphthalate	50	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Diethyl phthalate	50	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Dimethyl phthalate	50	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Biphenyl	NC	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
4-Chloroaniline	5	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
2-Nitroaniline	5	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
3-Nitroaniline	5	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
4-Nitroaniline	5	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Dibenzofuran	NC	ND		2	1.5	J	2	ND		10	1.6	J	2	ND		2	ND		2	ND		2
1,2,4,5-Tetrachlorobenzene	5	ND		10	ND		10	ND		50	ND		10	ND		10	ND		10	ND		10
Acetophenone	NC	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
2,4,6-Trichlorophenol	NC	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
p-Chloro-m-cresol	NC	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2

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NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-106			MW-107			MW-107			MW-107			MW-107			MW-108			MW-108		
LAB ID:		L2002621-03			L1916916-03			L1933894-01			L1949711-10			L2002621-05			L1916916-07			L1933894-07		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**r**	**RL**	**Conc**	**Q**	**RL**
2-Chlorophenol	NC	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
2,4-Dichlorophenol	1	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
2,4-Dimethylphenol	50	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
2-Nitrophenol	NC	ND		10	ND		10	ND		50	ND		10	ND		10	ND		10	ND		10
4-Nitrophenol	NC	ND		10	ND		10	ND		50	ND		10	ND		10	ND		10	ND		10
2,4-Dinitrophenol	10	ND		20	ND		20	ND		100	ND		20	ND		20	ND		20	ND		20
4,6-Dinitro-o-cresol	NC	ND		10	ND		10	ND		50	ND		10	ND		10	ND		10	ND		10
Phenol	1	ND		5	ND		5	ND		25	ND		5	1.3	J	5	ND		5	ND		5
2-Methylphenol	NC	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
3-Methylphenol/4-Methylphenol	NC	ND		5	ND		5	ND		25	ND		5	11		5	ND		5	ND		5
2,4,5-Trichlorophenol	NC	ND		5	ND		5	ND		25	ND		5	ND		5	ND		5	ND		5
Benzoic Acid	NC	ND		50	ND		50	ND		250	ND		50	8.9	J	50	ND		50	ND		50
Benzyl Alcohol	NC	ND		2	ND		2	ND		10	ND		2	ND		2	ND		2	ND		2
Carbazole	NC	ND		2	2.8		2	ND		10	2.3		2	ND		2	ND		2	ND		2
Acenaphthene	20	1.6		0.1	3.8		0.1	3.4		0.1	4.7		0.1	0.16		0.1	0.27		0.1	0.31		0.1
2-Chloronaphthalene	10	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2
Fluoranthene	50	2.4		0.1	31		0.1	26		0.1	34		0.1	0.39		0.1	0.93		0.1	0.25		0.1
Hexachlorobutadiene	0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Naphthalene	10	0.06	J	0.1	1.9		0.1	1.8		0.1	0.85		0.1	ND		0.1	0.07	J	0.1	ND		0.1
Benzo(a)anthracene	0.002	0.9		0.1	20		0.1	13		0.1	20		0.1	0.22		0.1	0.44		0.1	0.09	J	0.1
Benzo(a)pyrene	0	0.94		0.1	17		0.1	13		0.1	19		0.1	0.2		0.1	0.37		0.1	0.06	J	0.1
Benzo(b)fluoranthene	0.002	1.3		0.1	13		0.1	16		0.1	26		0.1	0.26		0.1	0.29		0.1	0.09	J	0.1
Benzo(k)fluoranthene	0.002	0.43		0.1	14		0.1	6		0.1	7.7		0.1	0.11		0.1	0.38		0.1	0.03	J	0.1
Chrysene	0.002	0.77		0.1	20		0.1	12		0.1	16		0.1	0.16		0.1	0.47		0.1	0.06	J	0.1
Acenaphthylene	NC	0.09	J	0.1	1		0.1	0.92		0.1	1.2		0.1	ND		0.1	ND		0.1	ND		0.1
Anthracene	50	0.43		0.1	6.8		0.1	5.2		0.1	6.2		0.1	0.09	J	0.1	0.15		0.1	0.13		0.1
Benzo(ghi)perylene	NC	0.62		0.1	12		0.1	7.7		0.1	12		0.1	0.13		0.1	0.3		0.1	0.04	J	0.1
Fluorene	50	1.8		0.1	3.8		0.1	3		0.1	3.8		0.1	0.09	J	0.1	ND		0.1	0.31		0.1
Phenanthrene	50	0.92		0.1	20		0.1	14		0.1	16		0.1	0.14		0.1	0.28		0.1	0.1	J	0.1
Dibenzo(a,h)anthracene	NC	0.15		0.1	4		0.1	2.2		0.1	3		0.1	0.03	J	0.1	0.1		0.1	ND		0.1
Indeno(1,2,3-cd)pyrene	0.002	0.66		0.1	11		0.1	9		0.1	13		0.1	0.14		0.1	0.27		0.1	0.05	J	0.1
Pyrene	50	1.9		0.1	27		0.1	22		0.1	29		0.1	0.33		0.1	0.89		0.1	0.22		0.1
2-Methylnaphthalene	NC	ND		0.1	0.64		0.1	0.47		0.1	0.5		0.1	ND		0.1	ND		0.1	ND		0.1
Pentachlorophenol	1	ND		0.8	0.16	J	0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
Hexachlorobenzene	0.04	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
Hexachloroethane	5	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
TOTAL METALS																						
Aluminum, Total	NC	12500		10	846		10	17500		50	35400		10	176000		10	13200		10	225		10
Antimony, Total	3	1.19	J	4	0.57	J	4	ND		20	3.81	J	4	0.64	J	4	1.68	J	4	2	J	4
Arsenic, Total	25	12.44		0.5	3.15		0.5	33.5		2.5	94.09		0.5	32.49		0.5	8.1		0.5	1.97		0.5
Barium, Total	1000	816.8		0.5	382.2		0.5	1270		2.5	2627		0.5	2823		0.5	384.1		0.5	161.5		0.5
Beryllium, Total	3	0.91		0.5	ND		0.5	2.44	J	2.5	2.91		0.5	12.29		0.5	0.46	J	0.5	ND		0.5
Cadmium, Total	5	1.04		0.2	0.12	J	0.2	4.4		1	6.18		0.2	6.7		0.2	1.35		0.2	ND		0.2
Calcium, Total	NC	173000		100	216000		100	258000		500	333000		100	259000		100	97800		100	110000		100
Chromium, Total	50	34.79		1	4.51		1	52.46		5	132.2		1	181.9		1	26.02		1	10.2		1
Cobalt, Total	NC	12.62		0.5	3.57		0.5	35.34		2.5	60.92		0.5	106.4		0.5	17.56		0.5	1.18		0.5
Copper, Total	200	86.68		1	7.34		1	108		5	334.8		1	475.2		1	122.3		1	6.61		1
Iron, Total	300	43900		50	6720		50	42700		300	110000		50	245000		50	32200		50	1400		60
Lead, Total	25	248		1	88.27		1	1720		5	4359		1	2232		1	545.7		20	7.49		1
Magnesium, Total	35000	36000		70	35900		70	42000		350	60600		70	62200		70	21300		70	13300		70
Manganese, Total	300	1200		1	1766		1.5	1588		5	2809		1	3738		1	843.6		1	933.2		1

Notes:
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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-106			MW-107			MW-107			MW-107			MW-107			MW-108			MW-108		
LAB ID:		L2002621-03			L1916916-03			L1933894-01			L1949711-10			L2002621-05			L1916916-07			L1933894-07		
COLLECTION DATE:		1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**r**	**RL**	**Conc**	**Q**	**RL**
Mercury, Total	0.7	ND		0.2	ND		0.2	1.1		0.2	1.28		0.2	ND		0.2	0.11	J	0.2	ND		0.2
Nickel, Total	100	33.45		2	3.51		2	51.95		10	104.5		2	162.8		2	34.46		2	16.63		2
Potassium, Total	NC	10600		100	9560		100	14300		500	24600		100	23400		100	14800		100	17000		100
Selenium, Total	10	3.62	J	5	ND		5	14.1	J	25	29.5		5	26.1		5	3.89	J	5	ND		5
Silver, Total	50	ND		0.4	ND		0.4	ND		2	0.99		0.4	1.21		0.4	0.53		0.4	ND		0.4
Sodium, Total	20000	23700		100	46600		100	59000		500	114000		100	40200		100	115000		100	109000		100
Thallium, Total	0.5	0.47	J	1	ND		0.5	0.89	J	2.5	1.54		0.5	1.56		1	0.24	J	0.5	0.18	J	0.5
Vanadium, Total	NC	42.82		5	2.93	J	5	74.98		25	160.3		5	330.3		5	43.38		5	ND		5
Zinc, Total	2000	769.3		10	57.08		10	1807		50	3261		10	2039		10	554.5		200	7.64	J	10

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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-108			MW-108			MW-109			MW-109			MW-109			MW-109			DT-GW			MW-110		
LAB ID:		L1949711-09			L2002621-06			L1916916-02			L1933894-02			L1949711-03			L2002621-04			L1822903-02			L1916916-08		
COLLECTION DATE:		10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			6/18/2018			4/24/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS																									
Methylene chloride	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroform	7	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Carbon tetrachloride	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloropropane	1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Dibromochloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,2-Trichloroethane	1	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5
Tetrachloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichlorofluoromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethane	0.6	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,1-Trichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromodichloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
cis-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,3-Dichloropropene, Total	NC	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloropropene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromoform	50	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,1,2,2-Tetrachloroethane	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Benzene	1	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Toluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Ethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloromethane	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromomethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Vinyl chloride	2	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methyl tert butyl ether	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p/m-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Xylenes, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
cis-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethene, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Acrylonitrile	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Acetone	50	ND		5	ND		5	ND		5	3.3	J	5	ND		5	ND		5	26		5	2.5	J	5
Carbon disulfide	60	ND		5	ND		5	ND		5	ND		5	2.4	J	5	ND		5	ND		5	ND		5

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CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-108			MW-108			MW-109			MW-109			MW-109			MW-109			DT-GW			MW-110		
LAB ID:		L1949711-09			L2002621-06			L1916916-02			L1933894-02			L1949711-03			L2002621-04			L1822903-02			L1916916-08		
COLLECTION DATE:		10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			6/18/2018			4/24/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Butanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
2,2-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromoethane	0.0006	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,1,2-Tetrachloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
tert-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Isopropylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Isopropyltoluene	5	ND		2.5	ND		2.5	5.6		2.5	8.5		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Naphthalene	10	ND		2.5	ND		2.5	ND		2.5	1.6	J	2.5	0.72	J	2.5	0.81	J	2.5	ND		2.5	ND		2.5
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,3-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dioxane	NC	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250
p-Diethylbenzene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
p-Ethyltoluene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2,4,5-Tetramethylbenzene	5	ND		2	ND		2	ND		2	0.64	J	2	ND		2	ND		2	ND		2	ND		2
Ethyl ether	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
trans-1,4-Dichloro-2-butene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4 DIOXANE																									
1,4-Dioxane	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
PERFLUORINATED ALKYL ACIDS																									
Perfluorobutanoic Acid (PFBA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoropentanoic Acid (PFPeA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorobutanesulfonic Acid (PFBS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorohexanoic Acid (PFHxA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanoic Acid (PFHpA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorohexanesulfonic Acid (PFHxS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanoic Acid (PFOA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroheptanesulfonic Acid (PFHpS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorononanoic Acid (PFNA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonic Acid (PFOS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-

Notes:
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- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-108			MW-108			MW-109			MW-109			MW-109			MW-109			DT-GW			MW-110		
LAB ID:		L1949711-09			L2002621-06			L1916916-02			L1933894-02			L1949711-03			L2002621-04			L1822903-02			L1916916-08		
COLLECTION DATE:		10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			6/18/2018			4/24/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Perfluorodecanoic Acid (PFDA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluoroundecanoic Acid (PFUnA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorodecanesulfonic Acid (PFDS)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorooctanesulfonamide (FOSA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorododecanoic Acid (PFDoA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorotridecanoic Acid (PFTrDA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Perfluorotetradecanoic Acid (PFTA)	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
PFOA/PFOS, Total	NC	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
SEMIVOLATILE ORGANICS																									
1,2,4-Trichlorobenzene	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Bis(2-chloroethyl)ether	1	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2-Dichlorobenzene	3	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichlorobenzene	3	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,4-Dichlorobenzene	3	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
3,3'-Dichlorobenzidine	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
2,4-Dinitrotoluene	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
2,6-Dinitrotoluene	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
4-Chlorophenyl phenyl ether	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
4-Bromophenyl phenyl ether	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroisopropyl)ether	5	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroethoxy)methane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Hexachlorocyclopentadiene	5	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20
Isophorone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Nitrobenzene	0.4	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
NDPA/DPA	50	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
n-Nitrosodi-n-propylamine	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Bis(2-ethylhexyl)phthalate	5	ND		3	ND		3	1.9	J	3	5.5		3	ND		3	ND		3	ND		2.9	2.2	J	3
Butyl benzyl phthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Di-n-butylphthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Di-n-octylphthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Diethyl phthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Dimethyl phthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Biphenyl	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
4-Chloroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
2-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
3-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
4-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Dibenzofuran	NC	ND		2	ND		2	ND		2	1.8	J	2	0.92	J	2	ND		2	ND		2	ND		2
1,2,4,5-Tetrachlorobenzene	5	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		9.8	ND		10
Acetophenone	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
2,4,6-Trichlorophenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
p-Chloro-m-cresol	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2

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TOWN OF GREENBURGH
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COLLECTION DATE:		10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			6/18/2018			4/24/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Chlorophenol	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
2,4-Dichlorophenol	1	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
2,4-Dimethylphenol	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
2-Nitrophenol	NC	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		9.8	ND		10
4-Nitrophenol	NC	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		9.8	ND		10
2,4-Dinitrophenol	10	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20
4,6-Dinitro-o-cresol	NC	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		9.8	ND		10
Phenol	1	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
2-Methylphenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
3-Methylphenol/4-Methylphenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
2,4,5-Trichlorophenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		4.9	ND		5
Benzoic Acid	NC	ND		50	ND		50	ND		50	ND		50	ND		50	9.3	J	50	ND		49	ND		50
Benzyl Alcohol	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Carbazole	NC	ND		2	ND		2	ND		2	1.7	J	2	ND		2	1.1	J	2	ND		2	ND		2
Acenaphthene	20	0.54		0.1	0.57		0.1	1.9		0.1	5.2		0.1	3.2		0.1	5.4		0.1	ND		0.1	0.31		0.1
2-Chloronaphthalene	10	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2
Fluoranthene	50	0.66		0.1	2.1		0.1	1		0.1	14		0.1	2.4		0.1	16		0.1	0.55		0.1	1.1		0.1
Hexachlorobutadiene	0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.49	ND		0.5
Naphthalene	10	ND		0.1	0.05	J	0.1	0.46		0.1	2.1		0.1	0.78		0.1	0.69		0.1	0.45		0.1	ND		0.1
Benzo(a)anthracene	0.002	0.29		0.1	0.99		0.1	0.4		0.1	6		0.1	0.98		0.1	6.8		0.1	0.14		0.1	0.48		0.1
Benzo(a)pyrene	0	0.25		0.1	1.1		0.1	0.32		0.1	5.5		0.1	0.88		0.1	6.7		0.1	0.1	J	0.1	0.42		0.1
Benzo(b)fluoranthene	0.002	0.34		0.1	1.4		0.1	0.28		0.1	7		0.1	1.2		0.1	8.6		0.1	0.2		0.1	0.33		0.1
Benzo(k)fluoranthene	0.002	0.13		0.1	0.48		0.1	0.3		0.1	2.4		0.1	0.34		0.1	2.7		0.1	0.08	J	0.1	0.42		0.1
Chrysene	0.002	0.23		0.1	0.75		0.1	0.44		0.1	5.8		0.1	0.88		0.1	6.1		0.1	0.22		0.1	0.54		0.1
Acenaphthylene	NC	0.06	J	0.1	0.11		0.1	0.1	J	0.1	0.92		0.1	0.28		0.1	0.87		0.1	ND		0.1	0.08	J	0.1
Anthracene	50	0.23		0.1	0.52		0.1	0.38		0.1	4.1		0.1	1.1		0.1	4.5		0.1	0.3		0.1	0.28		0.1
Benzo(ghi)perylene	NC	0.19		0.1	0.69		0.1	0.24		0.1	3.3		0.1	0.62		0.1	4		0.1	ND		0.1	0.32		0.1
Fluorene	50	0.58		0.1	0.79		0.1	1.4		0.1	5.7		0.1	3.1		0.1	6.4		0.1	0.08	J	0.1	0.38		0.1
Phenanthrene	50	0.09	J	0.1	0.6		0.1	0.84		0.1	12		0.1	2.1		0.1	12		0.1	0.17		0.1	0.47		0.1
Dibenzo(a,h)anthracene	NC	0.04	J	0.1	0.18		0.1	0.08	J	0.1	1		0.1	0.14		0.1	1.1		0.1	ND		0.1	0.11		0.1
Indeno(1,2,3-cd)pyrene	0.002	0.19		0.1	0.73		0.1	0.22		0.1	3.7		0.1	0.63		0.1	4.2		0.1	ND		0.1	0.3		0.1
Pyrene	50	0.62		0.1	1.9		0.1	0.89		0.1	12		0.1	2.1		0.1	13		0.1	0.76		0.1	1		0.1
2-Methylnaphthalene	NC	ND		0.1	ND		0.1	0.04	J	0.1	0.36		0.1	0.11		0.1	0.25		0.1	0.19		0.1	ND		0.1
Pentachlorophenol	1	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.78	ND		0.8
Hexachlorobenzene	0.04	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.78	ND		0.8
Hexachloroethane	5	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.78	ND		0.8
TOTAL METALS																									
Aluminum, Total	NC	14100		10	14900		10	14200		10	10700		10	12400		10	17600		10	-		-	17600		10
Antimony, Total	3	0.87	J	4	3.05	J	4	2.59	J	4	1.5	J	4	4.49		4	2.01	J	4	-		-	1.38	J	4
Arsenic, Total	25	10.07		0.5	9.41		0.5	19.89		0.5	14.41		0.5	20.47		0.5	24.3		0.5	-		-	14.87		0.5
Barium, Total	1000	362.5		0.5	443.4		0.5	1869		25	1477		0.5	1959		0.5	2136		0.5	-		-	725.5		10
Beryllium, Total	3	0.59		0.5	0.5		0.5	0.61		0.5	0.58		0.5	0.52		0.5	0.65		0.5	-		-	0.68		0.5
Cadmium, Total	5	0.82		0.2	1.15		0.2	4.27		0.2	3.06		0.2	3.75		0.2	4.27		0.2	-		-	2		0.2
Calcium, Total	NC	117000		100	146000		100	221000		100	205000		100	244000		100	259000		100	-		-	198000		100
Chromium, Total	50	18.5		1	24.26		1	63.2		1	42.59		1	45.09		1	66.61		1	-		-	35.59		1
Cobalt, Total	NC	13.29		0.5	17.49		0.5	17.46		0.5	15.48		0.5	15.71		0.5	22.73		0.5	-		-	27.93		0.5
Copper, Total	200	79.71		1	110.3		1	269.6		1	144		1	227.6		1	298.2		1	-		-	157.7		1
Iron, Total	300	37200		50	40100		50	44600		50	42700		60	53200		50	61600		50	-		-	50100		50
Lead, Total	25	319.2		1	457.1		1	3833		50	2525		1	3609		1	4463		1	-		-	510.1		20
Magnesium, Total	35000	25500		70	28800		70	42600		70	36400		70	45100		70	51800		70	-		-	40100		70
Manganese, Total	300	1671		1	2109		1	1609		1	1583		1	2051		1	1807		1	-		-	1381		1

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- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-108			MW-108			MW-109			MW-109			MW-109			MW-109			DT-GW			MW-110		
LAB ID:		L1949711-09			L2002621-06			L1916916-02			L1933894-02			L1949711-03			L2002621-04			L1822903-02			L1916916-08		
COLLECTION DATE:		10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020			6/18/2018			4/24/2019		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Mercury, Total	0.7	0.1	J	0.2	ND		0.2	0.1	J	0.2	1.42		0.2	0.84		0.2	0.19	J	0.2	-		-	ND		0.2
Nickel, Total	100	23.13		2	30.37		2	36.93		2	27.45		2	29.42		2	42.16		2	-		-	42.54		2
Potassium, Total	NC	15800		100	15600		100	14800		100	15400		100	16800		100	15500		100	-		-	20200		100
Selenium, Total	10	5.29		5	3.01	J	5	3.3	J	5	3.16	J	5	3.99	J	5	2.16	J	5	-		-	7.13		5
Silver, Total	50	ND		0.4	0.29	J	0.4	1.39		0.4	0.83		0.4	1.03		0.4	1.63		0.4	-		-	0.74		0.4
Sodium, Total	20000	114000		100	115000		100	34000		100	80100		100	92900		100	42700		100	-		-	167000		100
Thallium, Total	0.5	0.24	J	0.5	0.77	J	1	0.27	J	0.5	0.21	J	0.5	0.51		0.5	0.42	J	1	-		-	0.41	J	0.5
Vanadium, Total	NC	35.28		5	50		5	46.82		5	39.98		5	39.71		5	56.96		5	-		-	69.18		5
Zinc, Total	2000	325.6		10	421.9		10	2945		500	2830		10	2516		10	2922		10	-		-	617.1		200

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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-110			MW-110			MW-110			MW-111			MW-111			MW-111			MW-111		
LAB ID:		L1933894-10			L1949711-06			L2002621-11			L1916916-10			L1933894-09			L1949711-12			L2002621-13		
COLLECTION DATE:		7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS																						
Methylene chloride	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroform	7	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Carbon tetrachloride	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloropropane	1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Dibromochloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,2-Trichloroethane	1	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5	ND		1.5
Tetrachloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichlorofluoromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethane	0.6	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,1-Trichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromodichloromethane	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
cis-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,3-Dichloropropene, Total	NC	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloropropene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromoform	50	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,1,2,2-Tetrachloroethane	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Benzene	1	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Toluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Ethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloromethane	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromomethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Vinyl chloride	2	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichloroethene	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dichlorobenzene	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methyl tert butyl ether	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p/m-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Xylenes, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
cis-1,2-Dichloroethene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethene, Total	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Acrylonitrile	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Acetone	50	ND		5	ND		5	ND		5	2.5	J	5	3.8	J	5	ND		5	ND		5
Carbon disulfide	60	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5

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CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-110			MW-110			MW-110			MW-111			MW-111			MW-111			MW-111		
LAB ID:		L1933894-10			L1949711-06			L2002621-11			L1916916-10			L1933894-09			L1949711-12			L2002621-13		
COLLECTION DATE:		7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Butanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
2,2-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromoethane	0.0006	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichloropropane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,1,2-Tetrachloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
tert-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Chlorotoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Isopropylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Isopropyltoluene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Naphthalene	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,3-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dioxane	NC	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250	ND		250
p-Diethylbenzene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
p-Ethyltoluene	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2,4,5-Tetramethylbenzene	5	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Ethyl ether	NC	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
trans-1,4-Dichloro-2-butene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4 DIOXANE																						
1,4-Dioxane	NC	-		-	-		-	-		-	ND		0.144	-		-	-		-	-		-
PERFLUORINATED ALKYL ACIDS																						
Perfluorobutanoic Acid (PFBA)	NC	-		-	-		-	-		-	0.00243		0.00189	-		-	-		-	-		-
Perfluoropentanoic Acid (PFPeA)	NC	-		-	-		-	-		-	0.00396		0.00189	-		-	-		-	-		-
Perfluorobutanesulfonic Acid (PFBS)	NC	-		-	-		-	-		-	0.00141	J	0.00189	-		-	-		-	-		-
Perfluorohexanoic Acid (PFHxA)	NC	-		-	-		-	-		-	0.00364		0.00189	-		-	-		-	-		-
Perfluoroheptanoic Acid (PFHpA)	NC	-		-	-		-	-		-	0.00263		0.00189	-		-	-		-	-		-
Perfluorohexanesulfonic Acid (PFHxS)	NC	-		-	-		-	-		-	0.00179	J	0.00189	-		-	-		-	-		-
Perfluorooctanoic Acid (PFOA)	NC	-		-	-		-	-		-	0.0131		0.00189	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
Perfluoroheptanesulfonic Acid (PFHpS)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
Perfluorononanoic Acid (PFNA)	NC	-		-	-		-	-		-	0.0005	J	0.00189	-		-	-		-	-		-
Perfluorooctanesulfonic Acid (PFOS)	NC	-		-	-		-	-		-	0.00886		0.00189	-		-	-		-	-		-

Notes:
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- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-110			MW-110			MW-110			MW-111			MW-111			MW-111			MW-111		
LAB ID:		L1933894-10			L1949711-06			L2002621-11			L1916916-10			L1933894-09			L1949711-12			L2002621-13		
COLLECTION DATE:		7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Perfluorodecanoic Acid (PFDA)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
Perfluoroundecanoic Acid (PFUnA)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
Perfluorodecanesulfonic Acid (PFDS)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
Perfluorooctanesulfonamide (FOSA)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
Perfluorododecanoic Acid (PFDoA)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
Perfluorotridecanoic Acid (PFTrDA)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
Perfluorotetradecanoic Acid (PFTA)	NC	-		-	-		-	-		-	ND		0.00189	-		-	-		-	-		-
PFOA/PFOS, Total	NC	-		-	-		-	-		-	0.022		0.00189	-		-	-		-	-		-
SEMIVOLATILE ORGANICS																						
1,2,4-Trichlorobenzene	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bis(2-chloroethyl)ether	1	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2-Dichlorobenzene	3	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,3-Dichlorobenzene	3	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,4-Dichlorobenzene	3	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
3,3'-Dichlorobenzidine	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2,4-Dinitrotoluene	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2,6-Dinitrotoluene	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Chlorophenyl phenyl ether	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
4-Bromophenyl phenyl ether	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroisopropyl)ether	5	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Bis(2-chloroethoxy)methane	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Hexachlorocyclopentadiene	5	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20
Isophorone	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Nitrobenzene	0.4	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
NDPA/DPA	50	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
n-Nitrosodi-n-propylamine	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bis(2-ethylhexyl)phthalate	5	1.8	J	3	ND		3	3.1		3	ND		3	ND		3	ND		3	ND		3
Butyl benzyl phthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Di-n-butylphthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Di-n-octylphthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Diethyl phthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Dimethyl phthalate	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Biphenyl	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
4-Chloroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
3-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Dibenzofuran	NC	0.66	J	2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
1,2,4,5-Tetrachlorobenzene	5	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
Acetophenone	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2,4,6-Trichlorophenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
p-Chloro-m-cresol	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2

Notes:
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ND = Not Detected above laboratory's reporting limit (RL)
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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-110			MW-110			MW-110			MW-111			MW-111			MW-111			MW-111		
LAB ID:		L1933894-10			L1949711-06			L2002621-11			L1916916-10			L1933894-09			L1949711-12			L2002621-13		
COLLECTION DATE:		7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Chlorophenol	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
2,4-Dichlorophenol	1	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2,4-Dimethylphenol	50	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Nitrophenol	NC	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
4-Nitrophenol	NC	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
2,4-Dinitrophenol	10	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20	ND		20
4,6-Dinitro-o-cresol	NC	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
Phenol	1	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Methylphenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
3-Methylphenol/4-Methylphenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2,4,5-Trichlorophenol	NC	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Benzoic Acid	NC	ND		50	ND		50	ND		50	ND		50	ND		50	ND		50	ND		50
Benzyl Alcohol	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Carbazole	NC	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
Acenaphthene	20	0.64		0.1	ND		0.1	ND		0.1	0.02	J	0.1	1.1		0.1	0.47		0.1	0.27		0.1
2-Chloronaphthalene	10	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2
Fluoranthene	50	4.6		0.1	0.03	J	0.1	0.12		0.1	0.05	J	0.1	0.07	J	0.1	0.1	J	0.1	0.42		0.1
Hexachlorobutadiene	0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Naphthalene	10	15		0.1	ND		0.1	ND		0.1	ND		0.1	0.62		0.1	ND		0.1	ND		0.1
Benzo(a)anthracene	0.002	2.3		0.1	ND		0.1	0.09	J	0.1	ND		0.1	0.03	J	0.1	0.08	J	0.1	0.26		0.1
Benzo(a)pyrene	0	2.4		0.1	ND		0.1	0.07	J	0.1	0.02	J	0.1	ND		0.1	0.04	J	0.1	0.23		0.1
Benzo(b)fluoranthene	0.002	3.1		0.1	ND		0.1	0.1		0.1	0.02	J	0.1	ND		0.1	0.06	J	0.1	0.32		0.1
Benzo(k)fluoranthene	0.002	1.1		0.1	ND		0.1	0.04	J	0.1	0.03	J	0.1	ND		0.1	0.02	J	0.1	0.11		0.1
Chrysene	0.002	2		0.1	ND		0.1	0.06	J	0.1	0.03	J	0.1	0.02	J	0.1	0.04	J	0.1	0.18		0.1
Acenaphthylene	NC	0.48		0.1	ND		0.1	ND		0.1	ND		0.1	ND		0.1	ND		0.1	0.04	J	0.1
Anthracene	50	1.1		0.1	0.03	J	0.1	0.04	J	0.1	ND		0.1	ND		0.1	0.04	J	0.1	0.09	J	0.1
Benzo(ghi)perylene	NC	1.6		0.1	ND		0.1	0.05	J	0.1	0.02	J	0.1	ND		0.1	ND		0.1	0.16		0.1
Fluorene	50	0.86		0.1	0.05	J	0.1	0.05	J	0.1	0.02	J	0.1	0.47		0.1	0.19		0.1	0.18		0.1
Phenanthrene	50	2.4		0.1	0.03	J	0.1	0.05	J	0.1	0.05	J	0.1	ND		0.1	0.06	J	0.1	0.2		0.1
Dibenzo(a,h)anthracene	NC	0.45		0.1	ND		0.1	0.01	J	0.1	ND		0.1	ND		0.1	ND		0.1	0.03	J	0.1
Indeno(1,2,3-cd)pyrene	0.002	1.9		0.1	ND		0.1	0.06	J	0.1	0.02	J	0.1	ND		0.1	ND		0.1	0.17		0.1
Pyrene	50	3.9		0.1	0.02	J	0.1	0.11		0.1	0.04	J	0.1	0.05	J	0.1	0.08	J	0.1	0.36		0.1
2-Methylnaphthalene	NC	1.1		0.1	ND		0.1	ND		0.1	ND		0.1	0.09	J	0.1	ND		0.1	0.03	J	0.1
Pentachlorophenol	1	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
Hexachlorobenzene	0.04	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
Hexachloroethane	5	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8	ND		0.8
TOTAL METALS																						
Aluminum, Total	NC	12400		50	27400		10	125000		10	30200		10	1090		10	5500		10	43300		10
Antimony, Total	3	ND		20	0.5	J	4	0.58	J	4	5.89		4	0.49	J	4	ND		4	0.56	J	4
Arsenic, Total	25	11.92		2.5	15.58		0.5	19.11		0.5	17.12		0.5	4.14		0.5	5.56		0.5	15.2		0.5
Barium, Total	1000	663.7		2.5	940.4		0.5	1706		0.5	583.3		25	233.3		0.5	183.7		0.5	636.9		0.5
Beryllium, Total	3	0.85	J	2.5	4.21		0.5	7.92		0.5	1.85		0.5	ND		0.5	0.38	J	0.5	2.25		0.5
Cadmium, Total	5	2.15		1	0.93		0.2	3.19		0.2	1.12		0.2	ND		0.2	0.28		0.2	1.43		0.2
Calcium, Total	NC	211000		500	168000		100	159000		100	104000		100	130000		100	67000		100	144000		100
Chromium, Total	50	27.24		5	33.32		1	153.1		1	70.16		1	6.37		1	13.96		1	106.2		1
Cobalt, Total	NC	24.6		2.5	33.08		0.5	83.03		0.5	37.31		0.5	1.37		0.5	6.26		0.5	45.68		0.5
Copper, Total	200	82.99		5	41.72		1	337.6		1	156.1		1	9.14		1	35.36		1	212.9		1
Iron, Total	300	40700		300	64400		50	160000		50	73100		50	18100		60	20600		50	102000		50
Lead, Total	25	359.3		5	208.7		1	946.1		1	131.7		1	4.69		1	25.81		1	164.6		1
Magnesium, Total	35000	38800		350	44700		70	45400		70	46900		70	29100		70	17500		70	62800		70
Manganese, Total	300	2243		5	4284		1	3338		1	1917		1	938.1		1	681.1		1	1983		1

Notes:
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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	MW-110			MW-110			MW-110			MW-111			MW-111			MW-111			MW-111		
LAB ID:		L1933894-10			L1949711-06			L2002621-11			L1916916-10			L1933894-09			L1949711-12			L2002621-13		
COLLECTION DATE:		7/30/2019			10/22/2019			1/17/2020			4/24/2019			7/30/2019			10/22/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Mercury, Total	0.7	0.17	J	0.2	0.6		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	0.17	J	0.2
Nickel, Total	100	30.65		10	24.53		2	120.9		2	67.62		2	2.78		2	13.36		2	97.71		2
Potassium, Total	NC	21800		500	20300		100	23100		100	11300		100	21000		100	12100		100	22800		100
Selenium, Total	10	ND		25	15.5		5	18.4		5	5.65		5	ND		5	2.81	J	5	6.01		5
Silver, Total	50	ND		2	ND		0.4	0.64		0.4	0.29	J	0.4	ND		0.4	ND		0.4	0.26	J	0.4
Sodium, Total	20000	109000		500	76300		100	81500		100	17300		100	134000		100	58800		100	92000		100
Thallium, Total	0.5	ND		2.5	0.34	J	0.5	0.98	J	1	0.88		0.5	ND		0.5	0.19	J	0.5	1.02		1
Vanadium, Total	NC	45.32		25	87.08		5	236.7		5	99.77		5	4.78	J	5	19.12		5	131.4		5
Zinc, Total	2000	487.2		50	399.7		10	998.1		10	285.3		10	11.97		10	70.28		10	365.4		10

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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	TRIP BLANK			TRIP BLANK		
LAB ID:		L1949711-01			L2002621-01		
COLLECTION DATE:		10/21/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS							
Methylene chloride	5	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		2.5	ND		2.5
Chloroform	7	ND		2.5	ND		2.5
Carbon tetrachloride	5	ND		0.5	ND		0.5
1,2-Dichloropropane	1	ND		1	ND		1
Dibromochloromethane	50	ND		0.5	ND		0.5
1,1,2-Trichloroethane	1	ND		1.5	ND		1.5
Tetrachloroethene	5	ND		0.5	ND		0.5
Chlorobenzene	5	ND		2.5	ND		2.5
Trichlorofluoromethane	5	ND		2.5	ND		2.5
1,2-Dichloroethane	0.6	ND		0.5	ND		0.5
1,1,1-Trichloroethane	5	ND		2.5	ND		2.5
Bromodichloromethane	50	ND		0.5	ND		0.5
trans-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5
cis-1,3-Dichloropropene	0.4	ND		0.5	ND		0.5
1,3-Dichloropropene, Total	NC	ND		0.5	ND		0.5
1,1-Dichloropropene	5	ND		2.5	ND		2.5
Bromoform	50	ND		2	ND		2
1,1,2,2-Tetrachloroethane	5	ND		0.5	ND		0.5
Benzene	1	ND		0.5	ND		0.5
Toluene	5	ND		2.5	ND		2.5
Ethylbenzene	5	ND		2.5	ND		2.5
Chloromethane	NC	ND		2.5	ND		2.5
Bromomethane	5	ND		2.5	ND		2.5
Vinyl chloride	2	ND		1	ND		1
Chloroethane	5	ND		2.5	ND		2.5
1,1-Dichloroethene	5	ND		0.5	ND		0.5
trans-1,2-Dichloroethene	5	ND		2.5	ND		2.5
Trichloroethene	5	ND		0.5	ND		0.5
1,2-Dichlorobenzene	3	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	ND		2.5	ND		2.5
1,4-Dichlorobenzene	3	ND		2.5	ND		2.5
Methyl tert butyl ether	10	ND		2.5	ND		2.5
p/m-Xylene	5	ND		2.5	ND		2.5
o-Xylene	5	ND		2.5	ND		2.5
Xylenes, Total	NC	ND		2.5	ND		2.5
cis-1,2-Dichloroethene	5	ND		2.5	ND		2.5
1,2-Dichloroethene, Total	NC	ND		2.5	ND		2.5
Dibromomethane	5	ND		5	ND		5
1,2,3-Trichloropropane	0.04	ND		2.5	ND		2.5
Acrylonitrile	5	ND		5	ND		5
Styrene	5	ND		2.5	ND		2.5
Dichlorodifluoromethane	5	ND		5	ND		5
Acetone	50	1.6	J	5	ND		5
Carbon disulfide	60	ND		5	ND		5

Notes:
Results reported in micrograms per liter (ug/L) or parts per billion
Exceedances (if any) are highlighted
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	TRIP BLANK			TRIP BLANK		
LAB ID:		L1949711-01			L2002621-01		
COLLECTION DATE:		10/21/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Butanone	50	ND		5	ND		5
Vinyl acetate	NC	ND		5	ND		5
4-Methyl-2-pentanone	NC	ND		5	ND		5
2-Hexanone	50	ND		5	ND		5
Bromochloromethane	5	ND		2.5	ND		2.5
2,2-Dichloropropane	5	ND		2.5	ND		2.5
1,2-Dibromoethane	0.0006	ND		2	ND		2
1,3-Dichloropropane	5	ND		2.5	ND		2.5
1,1,1,2-Tetrachloroethane	5	ND		2.5	ND		2.5
Bromobenzene	5	ND		2.5	ND		2.5
n-Butylbenzene	5	ND		2.5	ND		2.5
sec-Butylbenzene	5	ND		2.5	ND		2.5
tert-Butylbenzene	5	ND		2.5	ND		2.5
o-Chlorotoluene	5	ND		2.5	ND		2.5
p-Chlorotoluene	5	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	ND		2.5	ND		2.5
Isopropylbenzene	5	ND		2.5	ND		2.5
p-Isopropyltoluene	5	ND		2.5	ND		2.5
Naphthalene	10	ND		2.5	ND		2.5
n-Propylbenzene	5	ND		2.5	ND		2.5
1,2,3-Trichlorobenzene	5	ND		2.5	ND		2.5
1,2,4-Trichlorobenzene	5	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5
1,4-Dioxane	NC	ND		250	ND		250
p-Diethylbenzene	NC	ND		2	ND		2
p-Ethyltoluene	NC	ND		2	ND		2
1,2,4,5-Tetramethylbenzene	5	ND		2	ND		2
Ethyl ether	NC	ND		2.5	ND		2.5
trans-1,4-Dichloro-2-butene	5	ND		2.5	ND		2.5
1,4 DIOXANE							
1,4-Dioxane	NC	-		-	-		-
PERFLUORINATED ALKYL ACIDS							
Perfluorobutanoic Acid (PFBA)	NC	-		-	-		-
Perfluoropentanoic Acid (PFPeA)	NC	-		-	-		-
Perfluorobutanesulfonic Acid (PFBS)	NC	-		-	-		-
Perfluorohexanoic Acid (PFHxA)	NC	-		-	-		-
Perfluoroheptanoic Acid (PFHpA)	NC	-		-	-		-
Perfluorohexanesulfonic Acid (PFHxS)	NC	-		-	-		-
Perfluorooctanoic Acid (PFOA)	NC	-		-	-		-
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	-		-	-		-
Perfluoroheptanesulfonic Acid (PFHpS)	NC	-		-	-		-
Perfluorononanoic Acid (PFNA)	NC	-		-	-		-
Perfluorooctanesulfonic Acid (PFOS)	NC	-		-	-		-

Notes:
Results reported in micrograms per liter (ug/L) or parts per billion
Exceedances (if any) are highlighted
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	TRIP BLANK			TRIP BLANK		
LAB ID:		L1949711-01			L2002621-01		
COLLECTION DATE:		10/21/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Perfluorodecanoic Acid (PFDA)	NC	-		-	-		-
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	-		-	-		-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	-		-	-		-
Perfluoroundecanoic Acid (PFUnA)	NC	-		-	-		-
Perfluorodecanesulfonic Acid (PFDS)	NC	-		-	-		-
Perfluorooctanesulfonamide (FOSA)	NC	-		-	-		-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	-		-	-		-
Perfluorododecanoic Acid (PFDoA)	NC	-		-	-		-
Perfluorotridecanoic Acid (PFTrDA)	NC	-		-	-		-
Perfluorotetradecanoic Acid (PFTA)	NC	-		-	-		-
PFOA/PFOS, Total	NC	-		-	-		-
SEMIVOLATILE ORGANICS							
1,2,4-Trichlorobenzene	5	ND		5	ND		5
Bis(2-chloroethyl)ether	1	ND		2	ND		2
1,2-Dichlorobenzene	3	ND		2	ND		2
1,3-Dichlorobenzene	3	ND		2	ND		2
1,4-Dichlorobenzene	3	ND		2	ND		2
3,3'-Dichlorobenzidine	5	ND		5	ND		5
2,4-Dinitrotoluene	5	ND		5	ND		5
2,6-Dinitrotoluene	5	ND		5	ND		5
4-Chlorophenyl phenyl ether	NC	ND		2	ND		2
4-Bromophenyl phenyl ether	NC	ND		2	ND		2
Bis(2-chloroisopropyl)ether	5	ND		2	ND		2
Bis(2-chloroethoxy)methane	5	ND		5	ND		5
Hexachlorocyclopentadiene	5	ND		20	ND		20
Isophorone	50	ND		5	ND		5
Nitrobenzene	0.4	ND		2	ND		2
NDPA/DPA	50	ND		2	ND		2
n-Nitrosodi-n-propylamine	NC	ND		5	ND		5
Bis(2-ethylhexyl)phthalate	5	ND		3	ND		3
Butyl benzyl phthalate	50	ND		5	ND		5
Di-n-butylphthalate	50	ND		5	ND		5
Di-n-octylphthalate	50	ND		5	ND		5
Diethyl phthalate	50	ND		5	ND		5
Dimethyl phthalate	50	ND		5	ND		5
Biphenyl	NC	ND		2	ND		2
4-Chloroaniline	5	ND		5	ND		5
2-Nitroaniline	5	ND		5	ND		5
3-Nitroaniline	5	ND		5	ND		5
4-Nitroaniline	5	ND		5	ND		5
Dibenzofuran	NC	ND		2	ND		2
1,2,4,5-Tetrachlorobenzene	5	ND		10	ND		10
Acetophenone	NC	ND		5	ND		5
2,4,6-Trichlorophenol	NC	ND		5	ND		5
p-Chloro-m-cresol	NC	ND		2	ND		2

Notes:
Results reported in micrograms per liter (ug/L) or parts per billion
Exceedances (if any) are highlighted
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
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TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	TRIP BLANK			TRIP BLANK		
LAB ID:		L1949711-01			L2002621-01		
COLLECTION DATE:		10/21/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
2-Chlorophenol	NC	ND		2	ND		2
2,4-Dichlorophenol	1	ND		5	ND		5
2,4-Dimethylphenol	50	ND		5	ND		5
2-Nitrophenol	NC	ND		10	ND		10
4-Nitrophenol	NC	ND		10	ND		10
2,4-Dinitrophenol	10	ND		20	ND		20
4,6-Dinitro-o-cresol	NC	ND		10	ND		10
Phenol	1	ND		5	ND		5
2-Methylphenol	NC	ND		5	ND		5
3-Methylphenol/4-Methylphenol	NC	ND		5	ND		5
2,4,5-Trichlorophenol	NC	ND		5	ND		5
Benzoic Acid	NC	ND		50	ND		50
Benzyl Alcohol	NC	ND		2	ND		2
Carbazole	NC	ND		2	ND		2
Acenaphthene	20	ND		0.1	ND		0.1
2-Chloronaphthalene	10	ND		0.2	ND		0.2
Fluoranthene	50	0.06	J	0.1	0.02	J	0.1
Hexachlorobutadiene	0.5	ND		0.5	ND		0.5
Naphthalene	10	0.09	J	0.1	ND		0.1
Benzo(a)anthracene	0.002	0.04	J	0.1	0.02	J	0.1
Benzo(a)pyrene	0	0.02	J	0.1	ND		0.1
Benzo(b)fluoranthene	0.002	0.03	J	0.1	0.01	J	0.1
Benzo(k)fluoranthene	0.002	0.01	J	0.1	ND		0.1
Chrysene	0.002	0.02	J	0.1	ND		0.1
Acenaphthylene	NC	ND		0.1	ND		0.1
Anthracene	50	0.02	J	0.1	ND		0.1
Benzo(ghi)perylene	NC	ND		0.1	ND		0.1
Fluorene	50	ND		0.1	ND		0.1
Phenanthrene	50	0.06	J	0.1	ND		0.1
Dibenzo(a,h)anthracene	NC	ND		0.1	ND		0.1
Indeno(1,2,3-cd)pyrene	0.002	ND		0.1	ND		0.1
Pyrene	50	0.05	J	0.1	0.02	J	0.1
2-Methylnaphthalene	NC	0.04	J	0.1	ND		0.1
Pentachlorophenol	1	ND		0.8	ND		0.8
Hexachlorobenzene	0.04	ND		0.8	ND		0.8
Hexachloroethane	5	ND		0.8	ND		0.8
TOTAL METALS							
Aluminum, Total	NC	-		-	-		-
Antimony, Total	3	-		-	-		-
Arsenic, Total	25	-		-	-		-
Barium, Total	1000	-		-	-		-
Beryllium, Total	3	-		-	-		-
Cadmium, Total	5	-		-	-		-
Calcium, Total	NC	-		-	-		-
Chromium, Total	50	-		-	-		-
Cobalt, Total	NC	-		-	-		-
Copper, Total	200	-		-	-		-
Iron, Total	300	-		-	-		-
Lead, Total	25	-		-	-		-
Magnesium, Total	35000	-		-	-		-
Manganese, Total	300	-		-	-		-

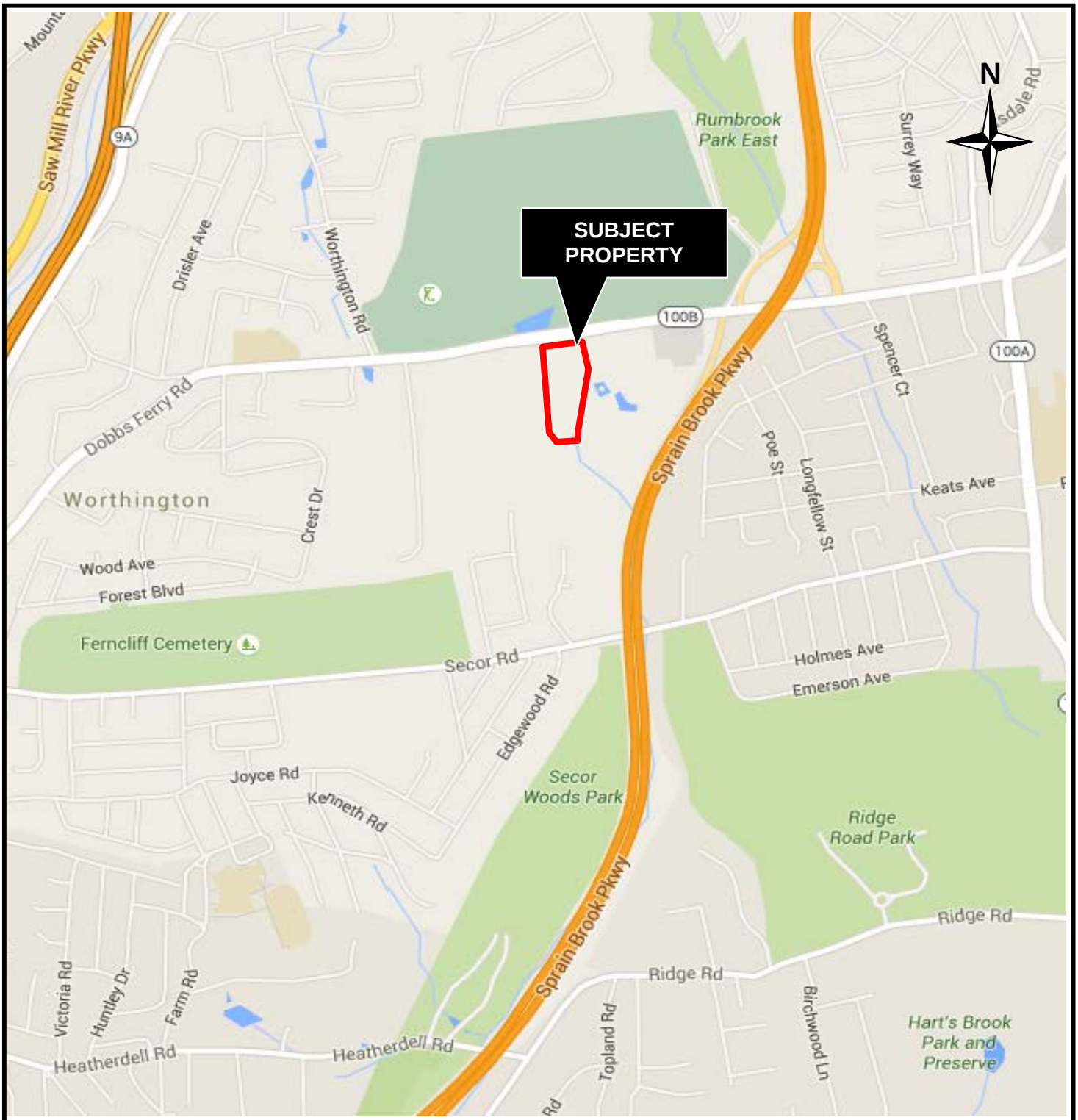
Notes:
Results reported in micrograms per liter (ug/L) or parts per billion
Exceedances (if any) are highlighted
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

TABLE 4 - GROUNDWATER SAMPLE EXCEEDANCES
CRP-CSH GREENBURGH SITE
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

SAMPLE ID:	Ambient Water Quality Standards	TRIP BLANK			TRIP BLANK		
LAB ID:		L1949711-01			L2002621-01		
COLLECTION DATE:		10/21/2019			1/17/2020		
SAMPLE MATRIX:		WATER			WATER		
ANALYTE		**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
Mercury, Total	0.7	-		-	-		-
Nickel, Total	100	-		-	-		-
Potassium, Total	NC	-		-	-		-
Selenium, Total	10	-		-	-		-
Silver, Total	50	-		-	-		-
Sodium, Total	20000	-		-	-		-
Thallium, Total	0.5	-		-	-		-
Vanadium, Total	NC	-		-	-		-
Zinc, Total	2000	-		-	-		-

Notes:
Results reported in micrograms per liter (ug/L) or parts per billion
Exceedances (if any) are highlighted
ND = Not Detected above laboratory's reporting limit (RL)
NC = No Criteria
J = Estimated value, concentration is below the RL but above the Method Detection Limit (MDL)
- = Not analyzed

Figures



Note: site boundary is approximate.

FIGURE 1: SITE LOCATION MAP

CRP-CSH GREENBURGH
715 Dobbs Ferry Road
Town of Greenburgh
Westchester County, New York

14 Worlds Fair Drive, Suite B
Somerset, New Jersey 08873
(732) 271-9301
fax (732) 271-9306

GTA ENGINEERING SERVICES OF NY, PC

SOURCE: GOOGLE MAPS

SCALE: NA	DATE: JAN 2016	PROJECT #: 34160102

GTA Engineering Services of NY, PC
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
14 WORLDS FAIR DRIVE, SUITE A
SOMERSET, NJ 08873
(732)271-9301
FAX: (732)271-9306
www.gtaeng.com
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LEGEND

- Remedial Excavation
- PE–B1 — Soil Sample Location
- TANK #3 — Former Underground Storage Tank

FIGURE 2
SITE LAYOUT MAP

CRP-CSH GREENBURGH SITE
715 Dobbs Ferry Road
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

PROJECT: 34160102	DATE: SEPTEMBER 2019	SCALE: 1" = 100'

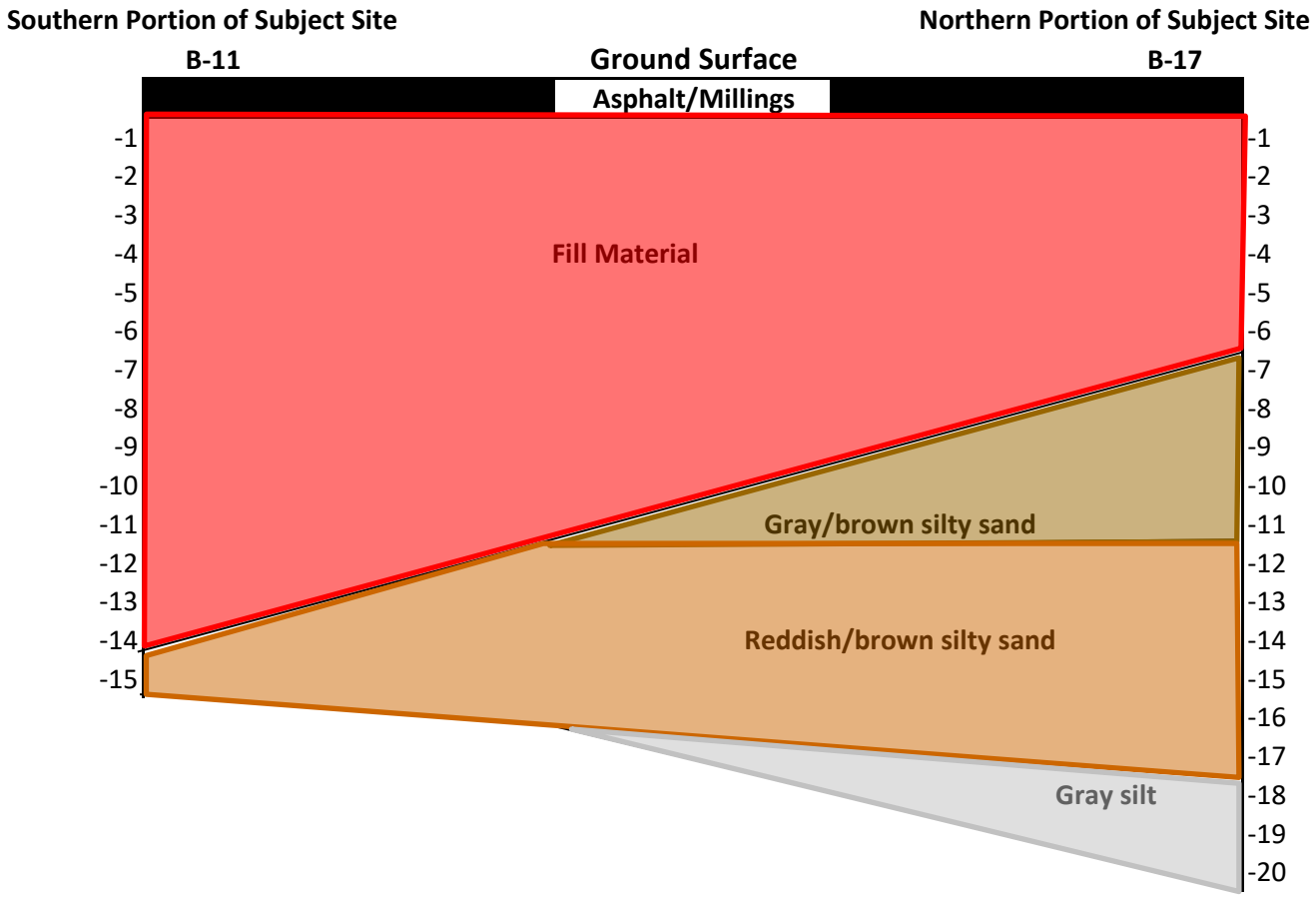


FIGURE 3: GEOLOGIC CROSS SECTION

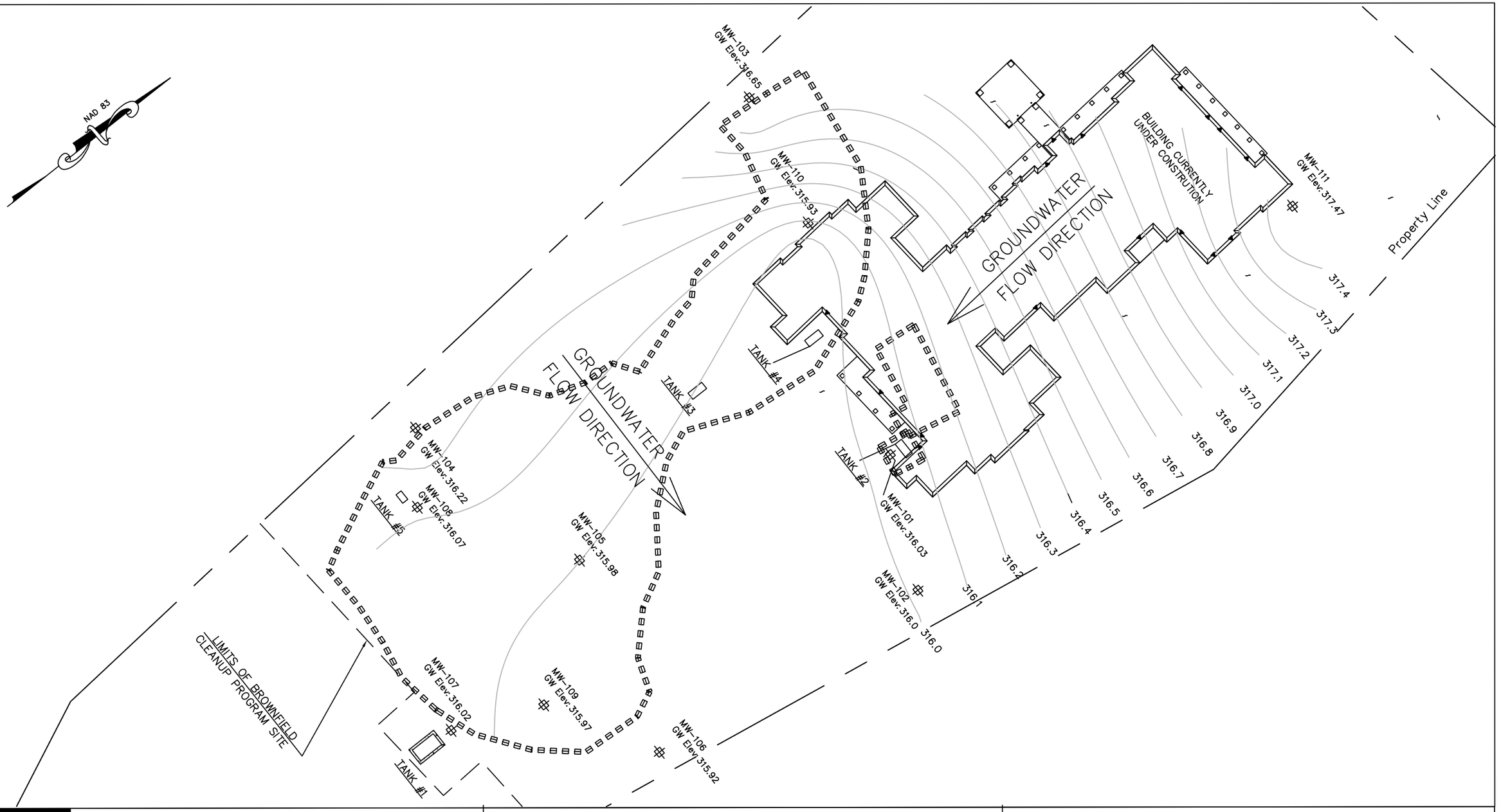
14 Worlds Fair Drive, Suite A
Somerset, New Jersey 08873
(732) 271-9301
fax (732) 271-9306

GTA ENGINEERING SERVICES OF NY, PC

CRP-CSH GREENBURGH
Town of Greenburgh
Westchester County, New York

SOURCE: N/A

SCALE: N/A | DATE: JUL 2019 | PROJECT #: 160102



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LEGEND

- Remedial Excavation
- MW–101 / GW Elev: 316.03 — Monitoring Well Location and Groundwater Elevations
- TANK #3 — Former Underground Storage Tank
- 316.4 — Groundwater Contour and Elevation

FIGURE 4
GROUNDWATER CONTOUR MAP
APRIL 24, 2019

CRP-CSH GREENBURGH SITE
715 Dobbs Ferry Road
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

PROJECT: 34160102	DATE: SEPTEMBER 2019	SCALE: 1" = 60'

Note: Soil sample exceedances that were exported or removed from the site are specifically excluded from this figure. Contaminants of Concern are listed by class, specific compounds are outlined on Table 3.

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LEGEND

□□□□□□□□□ Remedial Excavation

Soil Sample ID — PE-B1
Contaminant Class — VOCs, Metals:
Soil Sample Depth — 10'-10.5'

Soil Sample Location

Former Underground Storage Tank
TANK #1

SAMPLE ID:		B-16/7
LAB ID:	NEW YORK RESTRICTED RESIDENTIAL SCOs	L19021181-26
COLLECTION DATE:		1/26/2016
SAMPLE DEPTH:		7-7.5
SAMPLE MATRIX:		SOIL
ANALYTE		Conc Q RL
SEMIVOLATILE ORGANICS		
Benzo(a)anthracene	1	1.9 0.16
Benzo(a)pyrene	1	1.6 0.21
Benzo(b)fluoranthene	1	2.2 0.16
Indeno(1,2,3-cd)pyrene	0.5	0.88 0.21

Soil Sample Exceedances

FIGURE 5
REMAINING SOIL SAMPLE EXCEEDANCES

CRP-CSH GREENBURGH SITE
715 Dobbs Ferry Road
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

PROJECT: 34160102	DATE: FEBRUARY 2020	SCALE: 1" = 80'

GTA Engineering Services of NY, PC
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LEGEND

Remedial Excavation

Monitoring Well Location

Contaminant and standards provided in ug/L

SAMPLE ID:		Ambient Water Quality Standards	MW-103
LAB ID:			L1916916-09
COLLECTION DATE:			4/24/2019
SAMPLE MATRIX:			WATER
ANALYTE			Conc Q RL
SEMIVOLATILE ORGANICS			
Benzo(k)fluoranthene	0.002		0.02 J 0.1
TOTAL METALS			
Iron, Total	300		8570 50
Lead, Total	25		98.28 1
Manganese, Total	300		373.5 1
Sodium, Total	20000		62500 100

FIGURE 6
GROUNDWATER SAMPLE EXCEEDANCES

CRP-CSH GREENBURGH SITE
715 Dobbs Ferry Road
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

PROJECT: 34160102	DATE: SEPTEMBER 2019	SCALE: 1" = 80'

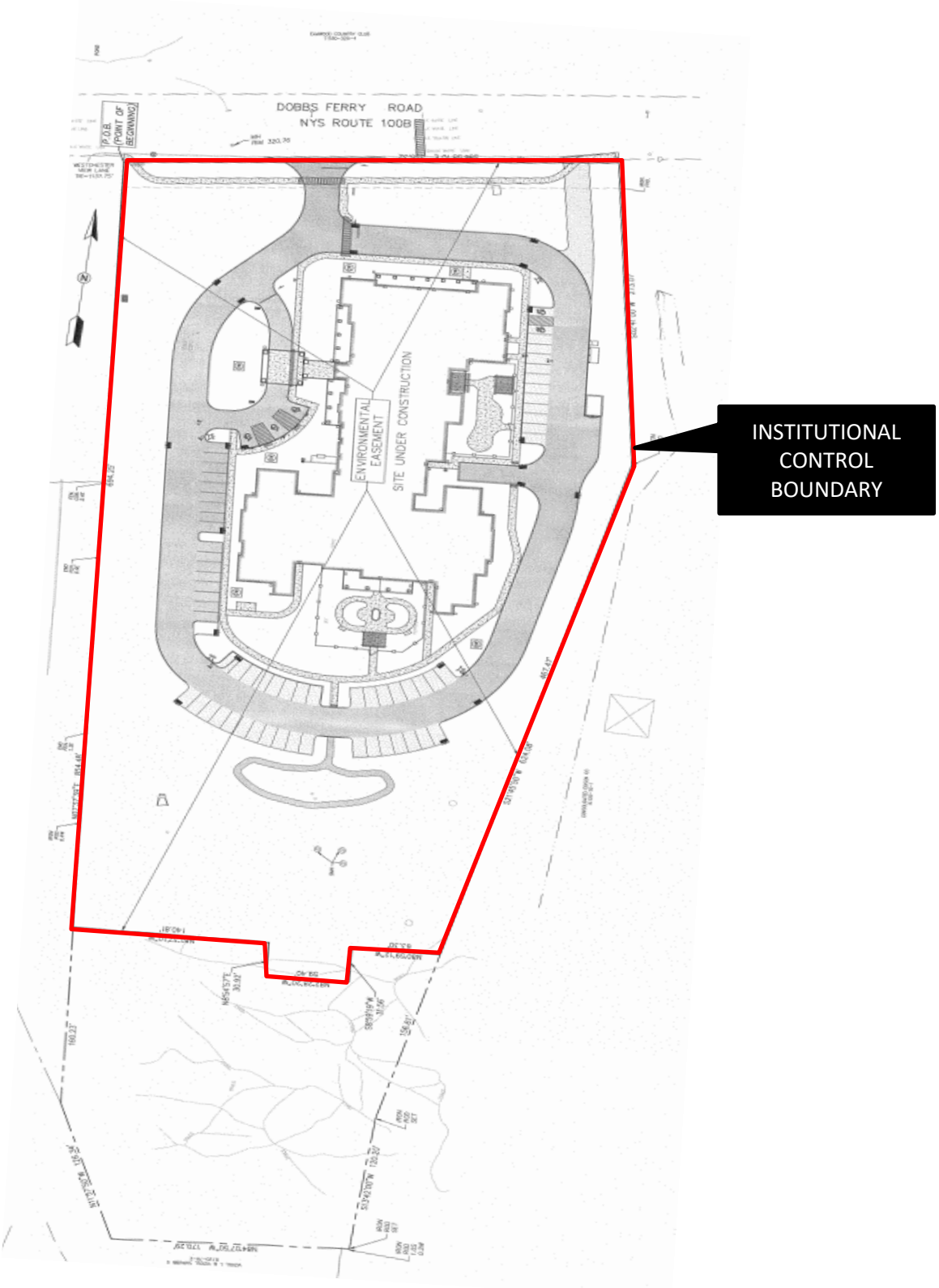


FIGURE 7: INSTITUTIONAL CONTROL BOUNDARIES

14 Worlds Fair Drive, Suite A
Somerset, New Jersey 08873
(732) 271-9301
fax (732) 271-9306

GTA ENGINEERING SERVICES OF NY, PC

CRP-CSH GREENBURGH
Town of Greenburgh
Westchester County, New York

SOURCE: Survey of Enironmental Easement Area

SCALE: N/A	DATE: JUL 2019	PROJECT #: 160102

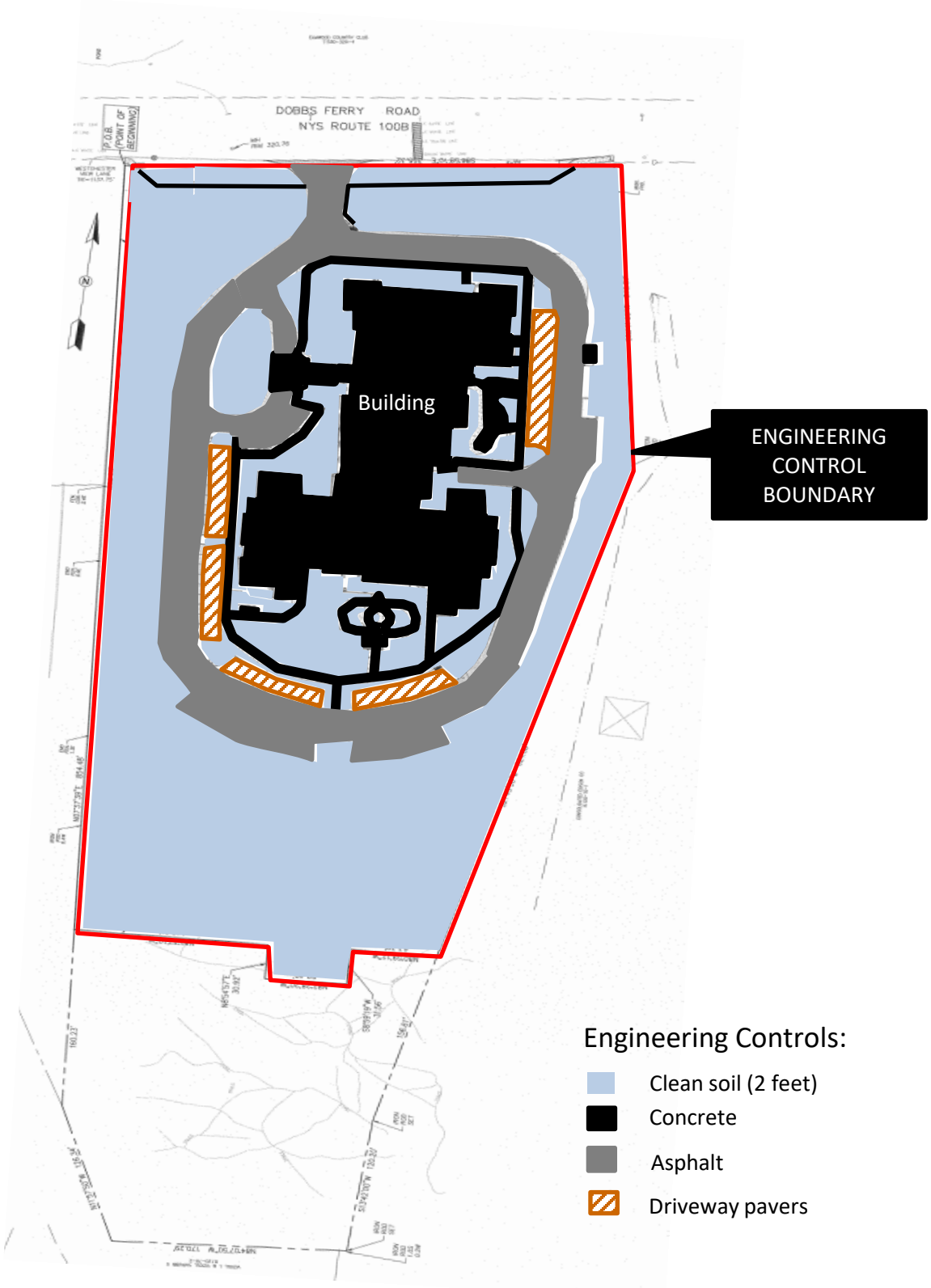


FIGURE 8: ENGINEERING CONTROLS LOCATION

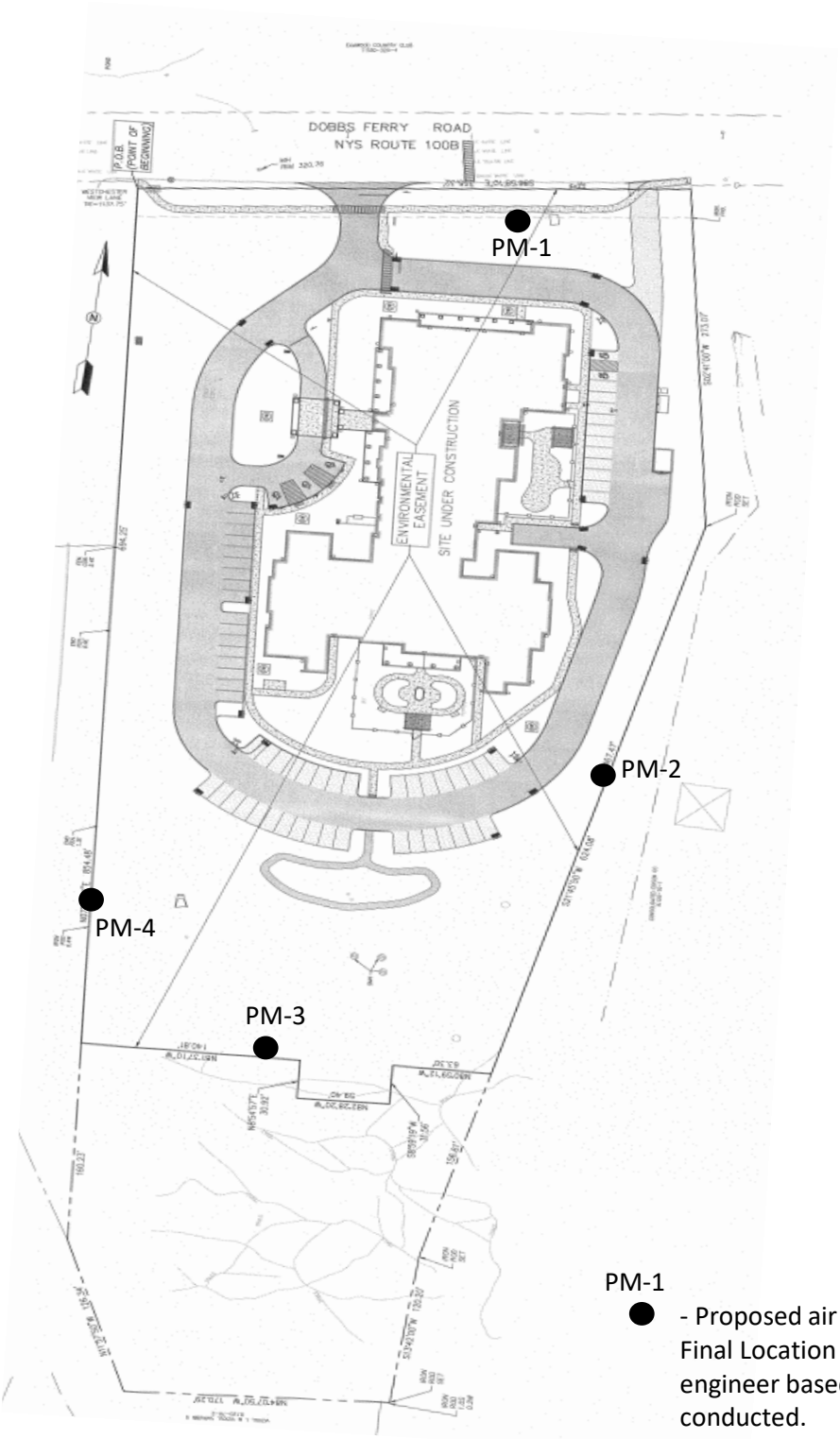
14 Worlds Fair Drive, Suite A
Somerset, New Jersey 08873
(732) 271-9301
fax (732) 271-9306

GTA ENGINEERING SERVICES OF NY, PC

CRP-CSH GREENBURGH
Town of Greenburgh
Westchester County, New York

SOURCE: Survey of Enironmental Easement Area

SCALE: N/A	DATE: OCT 2019	PROJECT #: 160102



PM-1 ● - Proposed air monitoring station. Final Location to be selected by engineer based on type of work conducted.

FIGURE 9: AIR MONITOR LOCATION PLAN

14 Worlds Fair Drive, Suite A
Somerset, New Jersey 08873
(732) 271-9301
fax (732) 271-9306

GTA ENGINEERING SERVICES OF NY, PC

CRP-CSH GREENBURGH
Town of Greenburgh
Westchester County, New York

SOURCE: Survey of Enironmental Easement Area

SCALE: N/A	DATE: JUL 2019	PROJECT #: 160102

APPENDIX A – LIST OF SITE CONTACTS

Name	Phone/Email Address
Senior Living Facility, Executive Director, Diane Mandracchia	914-275-0010 dmandracchia@cslal.com
CRP/CSH Greenburgh L.L.C, Jim May	610-662-0481 jim.may@cshpe.com
GTA Engineering Services of New York, Rich Lake	732-271-9301 rlake@gtaeng.com
NYSDEC Case Manager, Douglas MacNeal	518-402-9662 douglas.macneal@dec.ny.gov
Alexandra Servis, NYSDEC, Div. of Env. Remediation, Env Program Specialist 1, Site Control	518-402-9473; Alexandra.servis@dec.ny.gov
Janet Brown, Director, Div. of Env Remediation, Bureau C	518-402-9662; janet.brown@dec.ny.gov
Sara Bogardus, NYSDOH Project Manager	518-402-7860; sara.bogardus@health.ny.gov
Suzanne M. Avene, Esq	516-393-2229, savena@garfunkelwild.com

APPENDIX B – EXCAVATION WORK PLAN (EWP)

B-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the Site owner or their representative will notify the NYSDEC. Table 1 includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix A.

Table 1: Notifications*

Name	Contact Information
Doug MacNeal, NYSDEC, Div. of Env. Remediation, Bureau C	518-402-9662 douglas.macneal@dec.ny.gov
Alexandra Servis, NYSDEC, Div. of Env. Remediation, Env Program Specialist 1, Site Control	518-402-9473; Alexandra.servis@dec.ny.gov
Janet Brown, Director, Div. of Env Remediation, Bureau C	518-402-9662; janet.brown@dec.ny.gov
Sara Bogardus, NYSDOH Project Manager	518-402-7860; sara.bogardus@health.ny.gov

* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for Site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;

- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the contractor's health and safety plan (HASP), in electronic format, if it differs from the HASP provided in Appendix G of this SMP;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

B-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Full suite sampling (USEPA TCL/TAL list, PFAS) will be completed on any soils from underneath the cover system prior to any reuse on Site. Further discussion of off-site disposal of materials and on-site reuse is provided in Section B-7 of this Appendix.

B-3 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the NYSDEC.

B-4 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the Site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the Site until the activities performed under this section are complete Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the

adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

B-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck transport routes are as follows: East on Dobbs Ferry Road to North on Knollwood Road to Route 287. All trucks loaded with Site materials will exit the vicinity of the Site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project Site.

Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

B-6 MATERIALS DISPOSAL OFF-SITE

All material excavated and removed from the Site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of material from this Site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this Site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

B-7 MATERIALS REUSE ON-SITE

The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Soil to be reused will be sampled in accordance with NYSDEC requirements. Soil containing contaminants above the Protection of Groundwater SCOs will not be reused on Site and must be exported. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site (i.e., exceeds Residential SCOs) will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the Site will not be reused on-site.

B-8 FLUIDS MANAGEMENT

All liquids to be removed from the Site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the Site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

B-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the RAWP. The existing cover system is comprised of a minimum of 24 inches of clean soil underlain by a demarcation layer (black geotextile fabric), pavers, asphalt pavement, concrete covered sidewalks and concrete building. The demarcation layer, consisting of black geotextile fabric was placed in landscaped areas to provide a visual reference to the top of the remaining contamination zone, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP.

B-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the Site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the Site. A Request to Import/Reuse Fill or Soil form, which can be found at http://www.dec.ny.gov/regulations/67386.html, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the Site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are listed in Table 10. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the Site without prior approval by NYSDEC. Solid waste will not be imported onto the Site.

Trucks entering the Site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

B-11 STORMWATER POLLUTION PREVENTION

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

B-12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides, PFAS and PCBs), unless the Site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to NYSDEC’s Project Manager. Reportable quantities of petroleum product will also be

reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.

B-13 COMMUNITY AIR MONITORING PLAN

A figure showing the location of air sampling stations based on generally prevailing wind conditions is shown in Figure 9. These locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

B-14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-site and on-site. Specific odor control methods to be used on a routine basis will include periodic olfactory inspections of the perimeter of the excavation areas and Site perimeter. If nuisance odors are identified at the Site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the remedial party's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

B-15 DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved though the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

B-16 OTHER NUISANCES

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

Appendix C
Environmental Easement

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Office of the General Counsel
625 Broadway, 14th Floor, Albany, New York 12233-1500
P: (518) 402-9185 I F: (518) 402-9018
www.dec.ny.gov

October 22, 2019

SENT VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED
AND ELECTRONIC MAIL savena@garfunkelwild.com

Suzanne M. Avena, Esq.
Garfunkel Wild, P.C.
111 Great Neck Road
Great Neck, NY 11021

RE: Environmental Easement Package
Site Name: CRP-CSH Greenburgh
Site No.: C360151

Dear Ms. Avena:

Enclosed, please find one fully executed Environmental Easement and TP-584 tax form referencing the site located at 715 Dobbs Ferry Road, Greenburgh, County of Westchester, New York.

Once the Environmental Easement is recorded, the local municipality will need to be notified via Certified Mail, Return Receipt Requested.

Please return a copy of the recorded easement marked by the County Clerk's Office with the date and location of recording, and a certified copy of the municipal notice. The information from the recorded easement and notices are necessary to process the Certificate of Completion.

If you have any further questions or concerns relating to this matter, please contact our office at (518) 408-0409.

Sincerely,

Jennifer Andaloro, Esq.
Section Chief A
Remediation Bureau

ec: B. Burns, Esq., NYSDEC

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 17th day of October, 2019, between Owner(s) CRP/CSH Greenburgh, L.L.C., having an office at 1275 Pennsylvania Avenue, NW, Washington, DC 20004, (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 715 Dobbs Ferry Road in the Town of Greenburgh, County of Westchester and State of New York, known and designated on the tax map of the County Clerk of Westchester as tax map parcel number: Section 8.50 Block 28 Lot 9, being a portion of the property conveyed to Grantor by deed dated December 14, 2017 and recorded in the Westchester County Clerk's Office as Control #573463645. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 5.540 +/- acres, and is hereinafter more fully described in the Land Title Survey dated May 9, 2019 and last revised August 20, 2019 prepared by John J. Bezuyen, P.L.S. of Brooker Engineering, PLLC, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C360151-11-16, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Westchester County 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;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining

contaminated material must be conducted in accordance with the SMP;

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

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) 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 this Environmental Easement.

B. The Controlled Property shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C360151
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

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IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

CRP/CSH Greenburgh, L.L.C.:

By: _____

Print Name: JOSEPH F. MCELWEE

Title: AUTHORIZED SIGNATORY Date: 10/7/19

Grantor's Acknowledgment

DISTRICT OF COLUMBIA)
) ss:
)

On the 7 day of October, in the year 20 19, before me, the undersigned, personally appeared Joseph F. McElwee, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public – District of Columbia

District of Columbia: SS

Sworn to and subscribed before me on the 7 day of October, 2019

_____
Notary Public's Signature
My Commission Expires 8/31/2021

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 17th day of October, in the year 2019, before me, the undersigned, personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2021

SCHEDULE "A" PROPERTY DESCRIPTION

DESCRIPTION OF THE ENVIRONMENTAL EASEMENT AREA, A PORTION OF TAX LOT 9 BLOCK 28 SECTION 8.50
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Being a portion of certain lot, piece or parcel of land, with all the buildings and improvements thereon, erected, situate, lying and being in the Town of Greenburgh, County of Westchester, State of New York and being more particularly described as follows:

Beginning at a point in the southerly line of Dobbs Ferry Road (width varies) where the same is intersected by the westerly line of the herein described parcel, said point being distant 1137.75 feet easterly along the southerly line of Dobbs Ferry Road as it bends and turns from the easterly end of a curve connecting the southerly line of Dobbs Ferry Road with the easterly line of Westchester View Lane (50' wide) and running thence;

1) South 86 degrees 58 minutes 10 seconds East 355.32 feet along the southerly line of Dobbs Ferry Road to a point; thence

2) South 02 degrees 41 minutes 00 seconds West 273.07 feet to a bend point; thence

3) South 21 degrees 45 minutes 50 seconds West 467.47 feet to a point; thence

4) North 80 degrees 59 minutes 12 seconds West 63.30 feet through tax lot 9, block 28, section 8.50 to a point; thence

5) South 08 degrees 59 minutes 19 seconds West 31.56 feet continuing through the same to a point; thence

6) North 82 degrees 28 minutes 20 seconds West 59.40 feet continuing through the same to a point; thence

7) North 08 degrees 54 minutes 57 seconds East 30.92 feet continuing through the same to a point; thence

8) North 81 degrees 37 minutes 10 seconds West 140.81 feet continuing through the same to a point; thence

9) North 07 degrees 37 minutes 39 seconds East 694.25 feet to a point in the southerly line of Dobbs Ferry Road and to the point or place of beginning.

Containing 241,354.8 Square Feet or 5.54 Acres of land more or less.

TP-584 (3/07)

New York State Department of Taxation and Finance

Combined Real Estate Transfer Tax Return, Credit Line Mortgage Certificate, and Certification of Exemption from the Payment of Estimated Personal Income Tax

Recording office time stamp

See Form TP-584-I, Instructions for Form TP-584, *before completing this form. Please print or type.*

Schedule A — Information relating to conveyance

Grantor/Transferor ☐ Individual ☐ Corporation ☐ Partnership ☐ Estate/Trust ☒ Other	Name *(if individual, last, first, middle initial)* CRP/CSH Greenburgh, L.L.C.			Social security number
	Mailing address 1275 Pennsylvania Avenue, Second Floor			Social security number
	City Washington	State DC	ZIP code 20004	Federal employer ident. number 30-0953390
Grantee/Transferee ☐ Individual ☐ Corporation ☐ Partnership ☐ Estate/Trust ☒ Other	Name *(if individual: last, first, middle initial)* New York State Department of Environmental Conservation			Social security number
	Mailing address 625 Broadway			Social security number
	City Albany	State NY	ZIP code 12233	Federal employer ident. number 14-6013200

Location and description of property conveyed

Tax map designation			Address	City/village	Town	County
Section	Block	Lot				
8.50	28	9	715 Dobbs Ferry Rd.	Greenburgh	Greenburgh	Westchester

Type of property conveyed *(check applicable box)*

1 ☐ One- to three-family house
2 ☐ Residential cooperative
3 ☐ Residential condominium
4 ☐ Vacant land
5 ☐ Commercial/Industrial
6 ☐ Apartment building
7 ☐ Office building
8 ☒ Other Commercial/Vacant

Date of conveyance: 10 (month) 17 (day) 2019 (year)

Percentage of real property conveyed which is residential real property 0.00 % *(see instructions)*

Condition of conveyance *(check all that apply)*

a. ☐ Conveyance of fee interest
b. ☐ Acquisition of a controlling interest (state percentage acquired _____ %)
c. ☐ Transfer of a controlling interest (state percentage transferred _____ %)
d. ☐ Conveyance to cooperative housing corporation
e. ☐ Conveyance pursuant to or in lieu of foreclosure or enforcement of security interest *(attach Form TP-584.1, Schedule E)*
f. ☐ Conveyance which consists of a mere change of identity or form of ownership or organization *(attach Form TP-584.1, Schedule F)*
g. ☐ Conveyance for which credit for tax previously paid will be claimed *(attach Form TP-584.1, Schedule G)*
h. ☐ Conveyance of cooperative apartment(s)
i. ☐ Syndication
j. ☐ Conveyance of air rights or development rights
k. ☐ Contract assignment
l. ☐ Option assignment or surrender
m. ☐ Leasehold assignment or surrender
n. ☐ Leasehold grant
o. ☒ Conveyance of an easement
p. ☒ Conveyance for which exemption from transfer tax claimed *(complete Schedule B, Part III)*
q. ☐ Conveyance of property partly within and partly outside the state
r. ☐ Other *(describe)* _____

For recording officer's use	Amount received Schedule B., Part I $ Schedule B., Part II $	Date received	Transaction number

Schedule B — Real estate transfer tax return (Tax Law, Article 31)

Part I – Computation of tax due

1 Enter amount of consideration for the conveyance *(if you are claiming a total exemption from tax, check the exemption claimed box, enter consideration and proceed to Part III)* ☒ **Exemption claimed**	1.	0.00
2 Continuing lien deduction *(see instructions if property is taken subject to mortgage or lien)*	2.	
3 Taxable consideration *(subtract line 2 from line 1)*	3.	
4 Tax: $2 for each $500, or fractional part thereof, of consideration on line 3	4.	0.00
5 Amount of credit claimed *(see instructions and attach Form TP-584.1,* Schedule G*)*	5.	
6 Total tax due* *(subtract line 5 from line 4)*	6.	0.00

Part II – Computation of additional tax due on the conveyance of residential real property for $1 million or more

1 Enter amount of consideration for conveyance *(from* Part I*, line 1)*	1.	
2 Taxable consideration *(multiply line 1 by the percentage of the premises which is residential real property, as shown in* Schedule A*)*	2.	
3 Total additional transfer tax due* *(multiply line 2 by 1% (.01))*	3.	

Part III – Explanation of exemption claimed on Part I, line 1 *(check any boxes that apply)*

The conveyance of real property is exempt from the real estate transfer tax for the following reason:

a. Conveyance is to the United Nations, the United States of America, the state of New York, or any of their instrumentalities, agencies, or political subdivisions (or any public corporation, including a public corporation created pursuant to agreement or compact with another state or Canada) ..... a ☒

b. Conveyance is to secure a debt or other obligation ..... b ☐

c. Conveyance is without additional consideration to confirm, correct, modify, or supplement a prior conveyance ..... c ☐

d. Conveyance of real property is without consideration and not in connection with a sale, including conveyances conveying realty as bona fide gifts ..... d ☐

e. Conveyance is given in connection with a tax sale ..... e ☐

f. Conveyance is a mere change of identity or form of ownership or organization where there is no change in beneficial ownership. (This exemption cannot be claimed for a conveyance to a cooperative housing corporation of real property comprising the cooperative dwelling or dwellings.) Attach Form TP-584.1, Schedule F ..... f ☐

g. Conveyance consists of deed of partition ..... g ☐

h. Conveyance is given pursuant to the federal Bankruptcy Act ..... h ☐

i. Conveyance consists of the execution of a contract to sell real property, without the use or occupancy of such property, or the granting of an option to purchase real property, without the use or occupancy of such property ..... i ☐

j. Conveyance of an option or contract to purchase real property with the use or occupancy of such property where the consideration is less than $200,000 and such property was used solely by the grantor as the grantor's personal residence and consists of a one-, two-, or three-family house, an individual residential condominium unit, or the sale of stock in a cooperative housing corporation in connection with the grant or transfer of a proprietary leasehold covering an individual residential cooperative apartment ..... j ☐

k. Conveyance is not a conveyance within the meaning of Tax Law, Article 31, section 1401(e) *(attach documents supporting such claim)* ..... k ☐

l. Other *(attach explanation)* ..... l ☐

*Please make check(s) payable to the county clerk where the recording is to take place. If the recording is to take place in New York City, make check(s) payable to the ***NYC Department of Finance.*** If a recording is not required, send this return and your check(s) made payable to the ***NYS Department of Taxation and Finance,*** directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-5045.

Schedule C — Credit Line Mortgage Certificate (Tax Law, Article 11)

Complete the following only if the interest being transferred is a fee simple interest.
I (we) certify that: *(check the appropriate box)*

1. ☐ The real property being sold or transferred is not subject to an outstanding credit line mortgage.

2. ☐ The real property being sold or transferred is subject to an outstanding credit line mortgage. However, an exemption from the tax is claimed for the following reason:
   - ☐ The transfer of real property is a transfer of a fee simple interest to a person or persons who held a fee simple interest in the real property (whether as a joint tenant, a tenant in common or otherwise) immediately before the transfer.
   - ☐ The transfer of real property is (A) to a person or persons related by blood, marriage or adoption to the original obligor or to one or more of the original obligors or (B) to a person or entity where 50% or more of the beneficial interest in such real property after the transfer is held by the transferor or such related person or persons (as in the case of a transfer to a trustee for the benefit of a minor or the transfer to a trust for the benefit of the transferor).
   - ☐ The transfer of real property is a transfer to a trustee in bankruptcy, a receiver, assignee, or other officer of a court.
   - ☐ The maximum principal amount secured by the credit line mortgage is $3,000,000 or more, and the real property being sold or transferred is **not** principally improved nor will it be improved by a one- to six-family owner-occupied residence or dwelling.

     Please note: for purposes of determining whether the maximum principal amount secured is $3,000,000 or more as described above, the amounts secured by two or more credit line mortgages may be aggregated under certain circumstances. See TSB-M-96(6)-R for more information regarding these aggregation requirements.
   - ☐ Other *(attach detailed explanation)*.

3. ☐ The real property being transferred is presently subject to an outstanding credit line mortgage. However, no tax is due for the following reason:
   - ☐ A certificate of discharge of the credit line mortgage is being offered at the time of recording the deed.
   - ☐ A check has been drawn payable for transmission to the credit line mortgagee or his agent for the balance due, and a satisfaction of such mortgage will be recorded as soon as it is available.

4. ☐ The real property being transferred is subject to an outstanding credit line mortgage recorded in _____ (insert liber and page or reel or other identification of the mortgage). The maximum principal amount of debt or obligation secured by the mortgage is _____. No exemption from tax is claimed and the tax of _____ is being paid herewith. *(Make check payable to county clerk where deed will be recorded or, if the recording is to take place in New York City, make check payable to the **NYC Department of Finance**.)*

Signature (both the grantor(s) and grantee(s) must sign)

The undersigned certify that the above information contained in schedules A, B, and C, including any return, certification, schedule, or attachment, is to the best of his/her knowledge, true and complete, and authorize the person(s) submitting such form on their behalf to receive a copy for purposes of recording the deed or other instrument effecting the conveyance.

Grantor signature	Title	Grantee signature	Title
			NYSDEC Attorney
Grantor signature	Title	Grantee signature	Title

Reminder: Did you complete all of the required information in Schedules A, B, and C? Are you required to complete Schedule D? If you checked *e*, *f*, or *g* in Schedule A, did you complete Form TP-584.1? Have you attached your check(s) made payable to the county clerk where recording will take place or, if the recording is in New York City, to the ***NYC Department of Finance***? If no recording is required, send your check(s), made payable to the ***Department of Taxation and Finance***, directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-5045.

Schedule D - Certification of exemption from the payment of estimated personal income tax (Tax Law, Article 22, section 663)

Complete the following only if a fee simple interest or a cooperative unit is being transferred by an individual or estate or trust.

Part I - New York State residents

If you are a New York State resident transferor(s)/seller(s) listed in Schedule A of Form TP-584 (or an attachment to Form TP-584), you must sign the certification below. If one or more transferors/sellers of the real property or cooperative unit is a resident of New York State, **each** resident transferor/seller must sign in the space provided. If more space is needed, please photocopy this Schedule D and submit as many schedules as necessary to accommodate all resident transferors/sellers.

Certification of resident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) as signed below was a resident of New York State, and therefore is not required to pay estimated personal income tax under Tax Law, section 663(a) upon the sale or transfer of this real property or cooperative unit.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

Note: A resident of New York State may still be required to pay estimated tax under Tax Law, section 685(c), but not as a condition of recording a deed.

Part II - Nonresidents of New York State

If you are a nonresident of New York State listed as a transferor/seller in Schedule A of Form TP-584 (or an attachment to Form TP-584) but are not required to pay estimated personal income tax because one of the exemptions below applies under Tax Law, section 663(c), check the box of the appropriate exemption below. If any one of the exemptions below applies to the transferor(s)/seller(s), that transferor(s)/seller(s) is not required to pay estimated personal income tax to New York State under Tax Law, section 663. **Each** nonresident transferor/seller who qualifies under one of the exemptions below must sign in the space provided. If more space is needed, please photocopy this Schedule D and submit as many schedules as necessary to accommodate all nonresident transferors/sellers.

If none of these exemption statements apply, you must complete Form IT-2663, *Nonresident Real Property Estimated Income Tax Payment Form*, or Form IT-2664, *Nonresident Cooperative Unit Estimated Income Tax Payment Form.* For more information, see *Payment of estimated personal income tax*, on page 1 of Form TP-584-I.

Exemption for nonresident transferor(s)/seller(s)

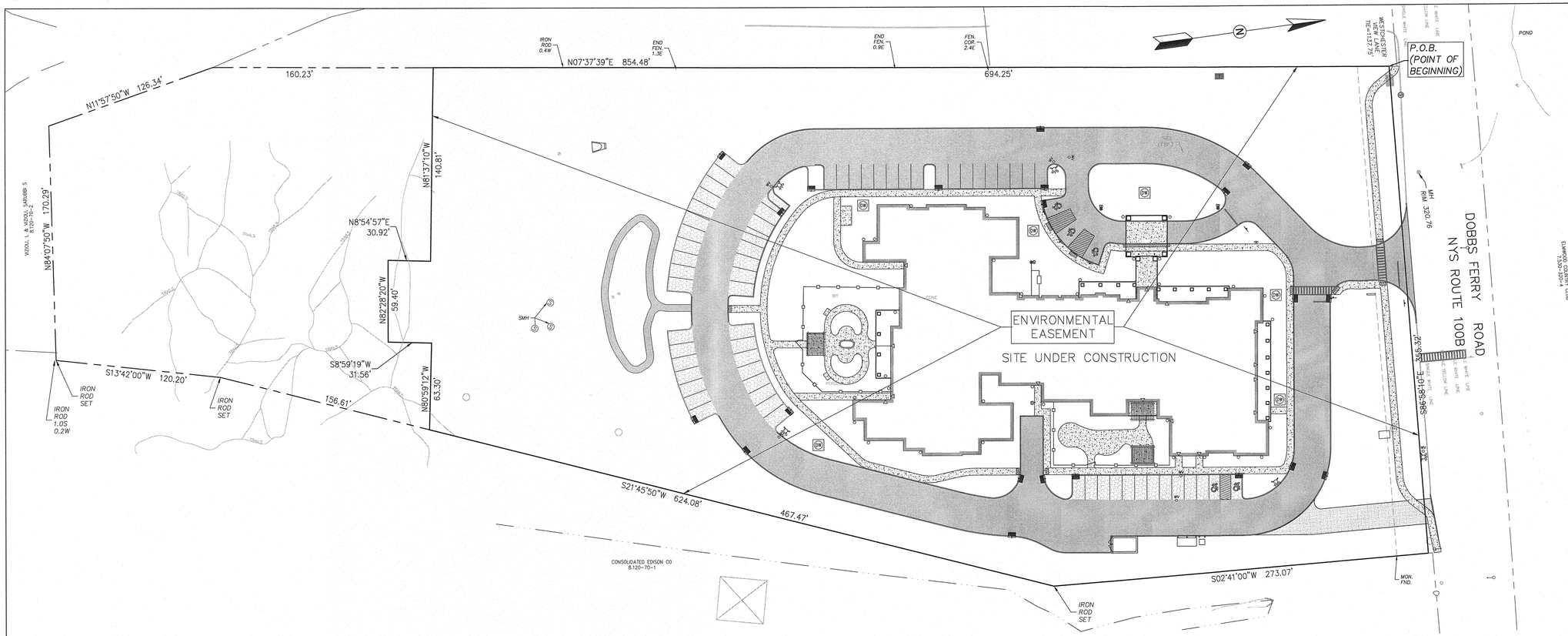
This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) (grantor) of this real property or cooperative unit was a nonresident of New York State, but is not required to pay estimated personal income tax under Tax Law, section 663 due to one of the following exemptions:

☐ The real property or cooperative unit being sold or transferred qualifies in total as the transferor's/seller's principal residence (within the meaning of Internal Revenue Code, section 121) from _____ (Date) to _____ (Date) *(see instructions)*.

☐ The transferor/seller is a mortgagor conveying the mortgaged property to a mortgagee in foreclosure, or in lieu of foreclosure with no additional consideration.

☐ The transferor or transferee is an agency or authority of the United States of America, an agency or authority of the state of New York, the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation, the Government National Mortgage Association, or a private mortgage insurance company.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date



DESCRIPTION OF THE ENVIRONMENTAL EASEMENT AREA, A PORTION OF TAX LOT 9 BLOCK 28 SECTION 8.50 TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

BEING A PORTION OF CERTAIN LOT, PIECE OR PARCEL OF LAND, WITH ALL THE BUILDINGS AND IMPROVEMENTS THEREON, ERECTED, SITUATE, LYING AND BEING IN THE TOWN OF GREENBURGH, COUNTY OF WESTCHESTER, STATE OF NEW YORK AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE SOUTHERLY LINE OF DOBBS FERRY ROAD (WIDTH VARIES) WHERE THE SAME IS INTERSECTED BY THE WESTERLY LINE OF THE HEREIN DESCRIBED PARCEL, SAID POINT BEING DISTANT 1137.75 FEET EASTERLY ALONG THE SOUTHERLY LINE OF DOBBS FERRY ROAD AS IT BENDS AND TURNS FROM THE EASTERLY END OF A CURVE CONNECTING THE SOUTHERLY LINE OF DOBBS FERRY ROAD WITH THE EASTERLY LINE OF WESTCHESTER VIEW LANE (50' WIDE) AND RUNNING THENCE;

1) SOUTH 86 DEGREES 58 MINUTES 10 SECONDS EAST 355.32 FEET ALONG THE SOUTHERLY LINE OF DOBBS FERRY ROAD TO A POINT; THENCE

2) SOUTH 02 DEGREES 41 MINUTES 00 SECONDS WEST 273.07 FEET TO A BEND POINT; THENCE

3) SOUTH 21 DEGREES 45 MINUTES 50 SECONDS WEST 467.47 FEET TO A POINT; THENCE

4) NORTH 80 DEGREES 59 MINUTES 12 SECONDS WEST 63.30 FEET THROUGH TAX LOT 9, BLOCK 28, SECTION 8.50 TO A POINT; THENCE

5) SOUTH 08 DEGREES 59 MINUTES 19 SECONDS WEST 31.56 FEET CONTINUING THROUGH THE SAME TO A POINT; THENCE

6) NORTH 82 DEGREES 28 MINUTES 20 SECONDS WEST 59.40 FEET CONTINUING THROUGH THE SAME TO A POINT; THENCE

7) NORTH 08 DEGREES 54 MINUTES 57 SECONDS EAST 30.92 FEET CONTINUING THROUGH THE SAME TO A POINT; THENCE

8) NORTH 81 DEGREES 37 MINUTES 10 SECONDS WEST 140.81 FEET CONTINUING THROUGH THE SAME TO A POINT; THENCE

9) NORTH 07 DEGREES 37 MINUTES 39 SECONDS EAST 694.25 FEET TO A POINT IN THE SOUTHERLY LINE OF DOBBS FERRY ROAD AND TO THE POINT OR PLACE OF BEGINNING.

CONTAINING 241,354.8 SQUARE FEET OR 5.54 ACRES OF LAND MORE OR LESS.

LEGAL DESCRIPTION OF

TAX LOT 9 BLOCK 28 SECTION 8.50

ALL THAT OF CERTAIN LOT, PIECE OR PARCEL OF LAND, WITH ALL THE BUILDINGS AND IMPROVEMENTS THEREON, ERECTED, SITUATE, LYING AND BEING IN THE TOWN OF GREENBURGH, COUNTY OF WESTCHESTER, STATE OF NEW YORK AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE SOUTHERLY LINE OF DOBBS FERRY ROAD (WIDTH VARIES) WHERE THE SAME IS INTERSECTED BY THE WESTERLY LINE OF THE HEREIN DESCRIBED PARCEL, SAID POINT BEING DISTANT 1137.75 FEET EASTERLY ALONG THE SOUTHERLY LINE OF DOBBS FERRY ROAD AS IT BENDS AND TURNS FROM THE EASTERLY END OF A CURVE CONNECTING THE SOUTHERLY LINE OF DOBBS FERRY ROAD WITH THE EASTERLY LINE OF WESTCHESTER VIEW LANE (50' WIDE) AND RUNNING THENCE;

1) SOUTH 86 DEGREES 58 MINUTES 10 SECONDS EAST 355.32 FEET ALONG THE SOUTHERLY LINE OF DOBBS FERRY ROAD TO A POINT IN THE WESTERLY LINE OF LANDS NOW OR FORMERLY CONSOLIDATED EDISON COMPANY; THENCE

2) SOUTH 02 DEGREES 41 MINUTES 00 SECONDS WEST 273.07 FEET ALONG THE WESTERLY LINE OF SAID LANDS OF CONSOLIDATED EDISON COMPANY TO A BEND POINT; THENCE

3) SOUTH 21 DEGREES 45 MINUTES 50 SECONDS WEST 624.08 FEET CONTINUING ALONG THE SAME TO A BEND POINT; THENCE

4) SOUTH 13 DEGREES 42 MINUTES 00 SECONDS WEST 120.20 FEET CONTINUING ALONG THE SAME TO A POINT IN THE NORTHERLY LINE OF LANDS NOW OR FORMERLY VIZIOLI; THENCE

5) NORTH 84 DEGREES 07 MINUTES 50 SECONDS WEST 170.29 FEET ALONG THE NORTHERLY LINE OF SAID LANDS OF VIZIOLI TO A POINT; THENCE

6) NORTH 11 DEGREES 57 MINUTES 50 SECONDS WEST 126.34 FEET ALONG THE EASTERLY LINE OF SAID LANDS OF VIZIOLI TO A BEND POINT; THENCE

7) NORTH 07 DEGREES 37 MINUTES 39 SECONDS EAST 854.48 FEET CONTINUING ALONG THE SAME TO A POINT IN THE SOUTHERLY LINE OF DOBBS FERRY ROAD AND TO THE POINT OR PLACE OF BEGINNING.

CONTAINING 301,289.6 SQUARE FEET OR 6.9167 ACRES OF LAND MORE OR LESS

NOTES:

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE SITE MANAGEMENT PLAN (SMP).A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV

LEGEND

EXISTING		PROPOSED
	SITE PROPERTY LINE	
	ENVIRONMENTAL EASEMENT	
	NEIGHBOR PROPERTY LINE	
	DRAINAGE EASEMENT	
	BUILDING SETBACK LINE	
	PARKING SETBACK	
	WETLAND LIMITS	
	BUILDING	
	DOOR	
	ROAD	
	DETECTABLE WARNING PAD	
	CONCRETE CURB	
	DROP CURB	DC
	SIDEWALK/PAVE MATERIALS	
	ASPHALT	
	DRIVEWAY PAVER	
	POINT OF BEGINNING	P.O.B.

REV	DESCRIPTION	BY	DATE
5	ADJUST NORTH ARROW	HL	8/20/19
4	REVISED DESCRIPTION	JO	6/04/19
3	AS PER RICH LAKE'S E-MAIL	JO	6/03/19
2	AS PER RICH LAKE'S E-MAIL	JO	5/29/19
1	UPDATED	JO	5/23/19

DISCLAIMER:
UNAUTHORIZED ALTERATION OR ADDITIONS TO THESE PLANS IS A VIOLATION OF THE N.Y.S. EDUCATION LAW, ARTICLE 145, SECTION 7209, SUBSECTION 2.

BROOKER ENGINEERING, PLLC
PROFESSIONAL ENGINEERS AND LAND SURVEYORS
LAND DEVELOPMENT · MUNICIPAL · STRUCTURAL · HYDROLOGICAL · SURVEYING
www.BrookerEngineering.com
74 Lafayette Avenue, Suite 501, Suffern, NY 10901, (845) 357-4411
65 Rampo Valley Road, Suite 208, Mahwah, NJ 07430, (201) 684-1221

PROJECT:
GREENBURGH SENIOR HOUSING
715 DOBBS FERRY ROAD
TOWN OF GREENBURGH, WESTCHESTER COUNTY
NEW YORK

TITLE:
SURVEY OF ENVIRONMENTAL EASEMENT AREA

STATE OF NEW YORK — JOHN J. BEZUTEN — No. 50793 — LICENSED LAND SURVEYOR

JOHN J. BEZUTEN, P.L.S.
PROFESSIONAL LAND SURVEYOR
NEW YORK LICENSE # 50793

PROJECT NO:	DRAWN:	CHECKED:
16020	JO	JB

SCALE: 1"=40'

GRAPHIC SCALES: 0 40' 80'; 0 10 M 20 M

DATE: 05/09/2019

DRAWING NO: 1

Appendix D
Monitoring Well Boring and Construction Logs

Phone
(203) 262-9328

Telefax
(203) 264-3414

WHITE PLAINS, N.Y.
(914) 946-4850

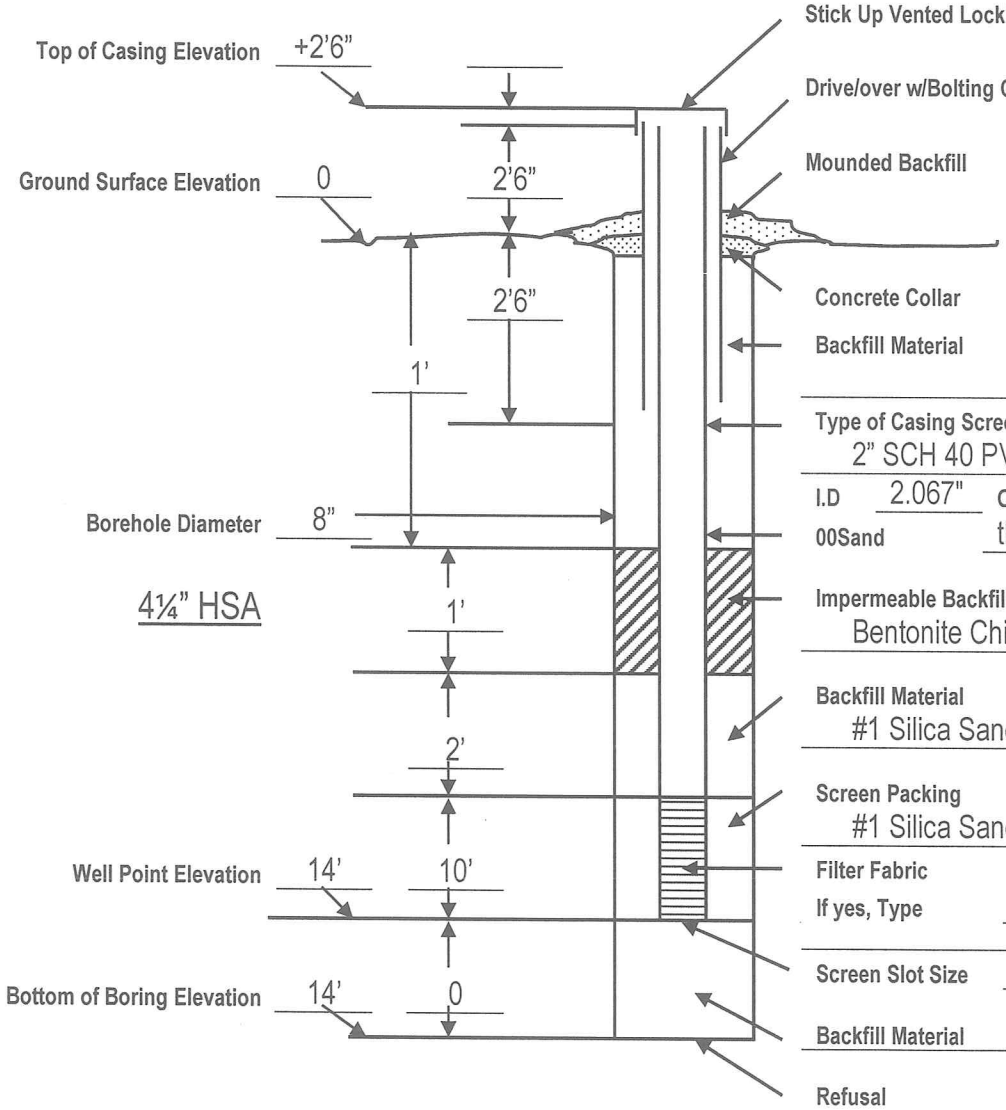
SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-101 **By:** MK/ao **JOB #:** E5-1205-19 **DATE:** 3/1/19



Stick Up Vented Locking Steel Cap X Yes ___ No

Drive/over w/Bolting Cover ___ Yes ___ No

Mounded Backfill X Yes ___ No

Concrete Collar X Yes ___ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes ___ No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1	D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

Phone
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Telefax
(203) 264-3414

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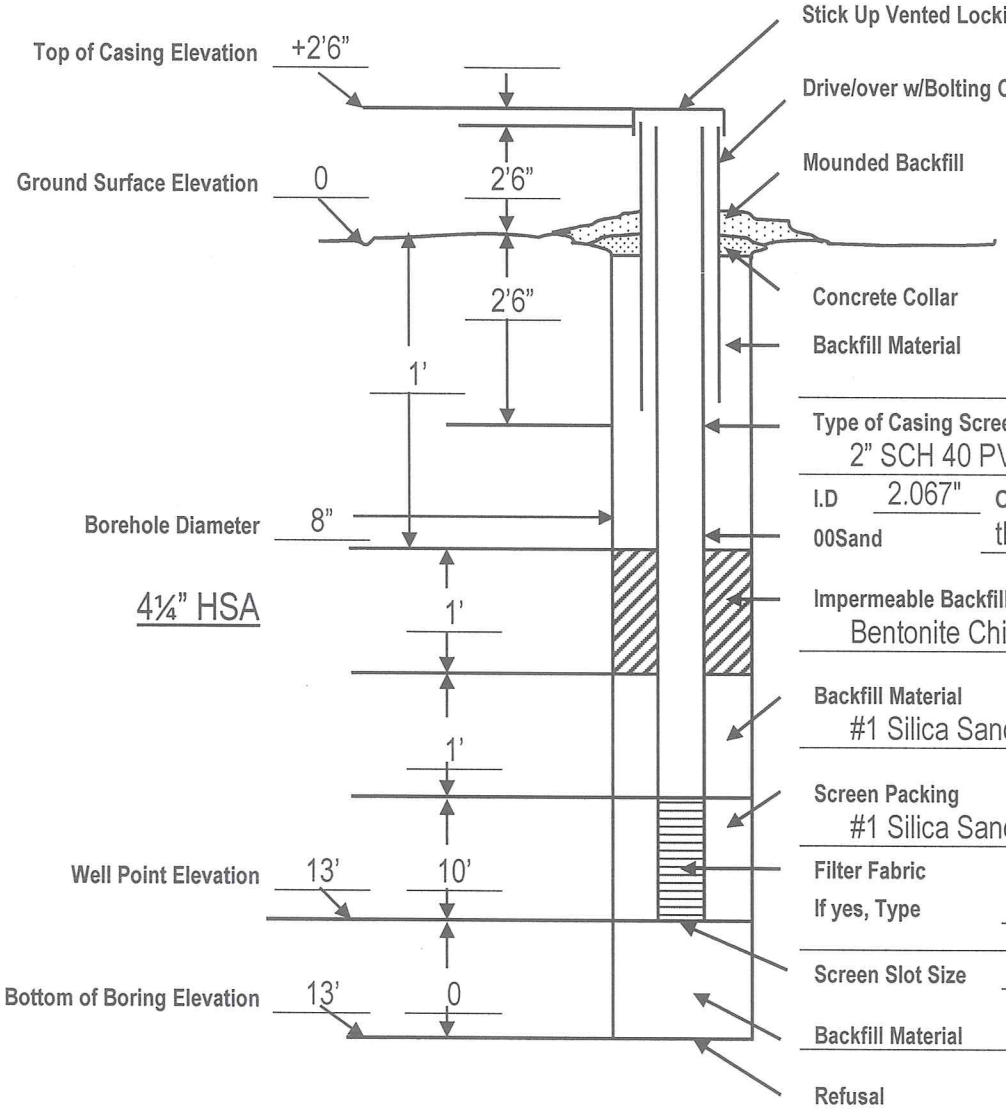
GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-102 **By:** MK/ao **JOB #:** E5-1205-19 **DATE:** 2/28/19



Stick Up Vented Locking Steel Cap X Yes ___ No

Drive/over w/Bolting Cover ___ Yes ___ No

Mounded Backfill X Yes ___ No

Concrete Collar X Yes ___ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes X No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1	D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
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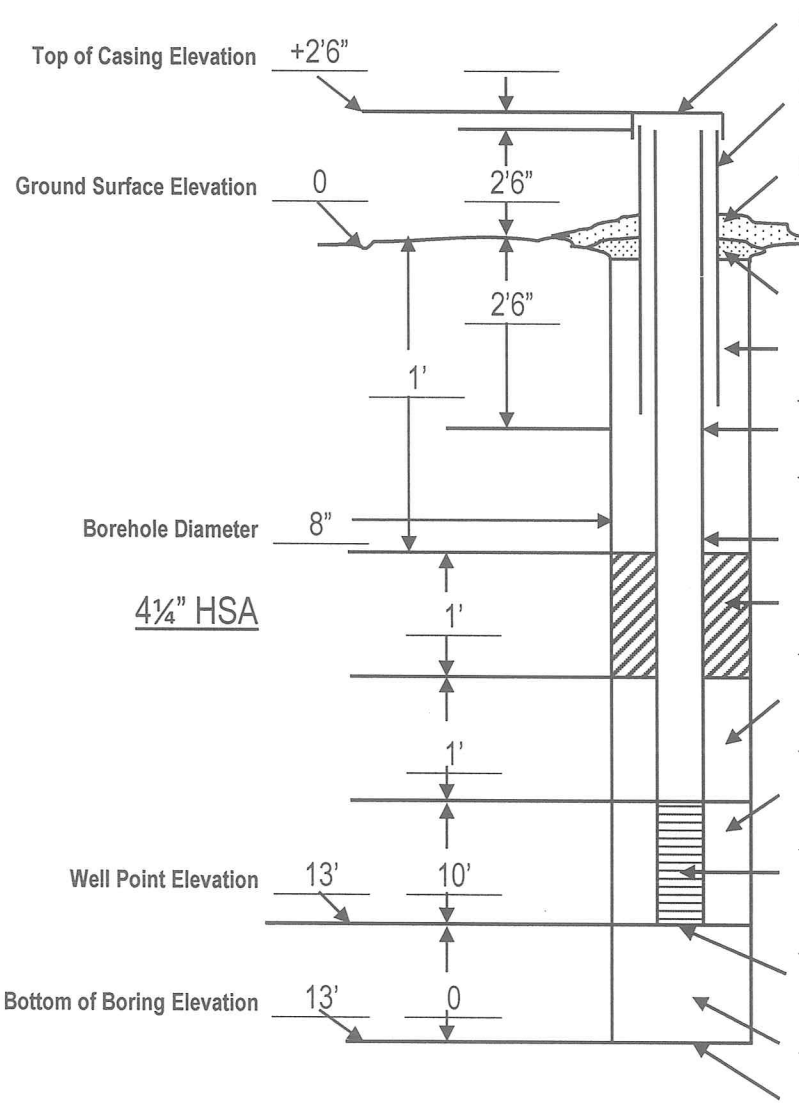
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-103 **By:** MK/ao **JOB #:** E5-1205-19 **DATE:** 3/1/19



Stick Up Vented Locking Steel Cap X Yes ___ No

Drive/over w/Bolting Cover ___ Yes ___ No

Mounded Backfill X Yes ___ No

Concrete Collar X Yes ___ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes ___ No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1	D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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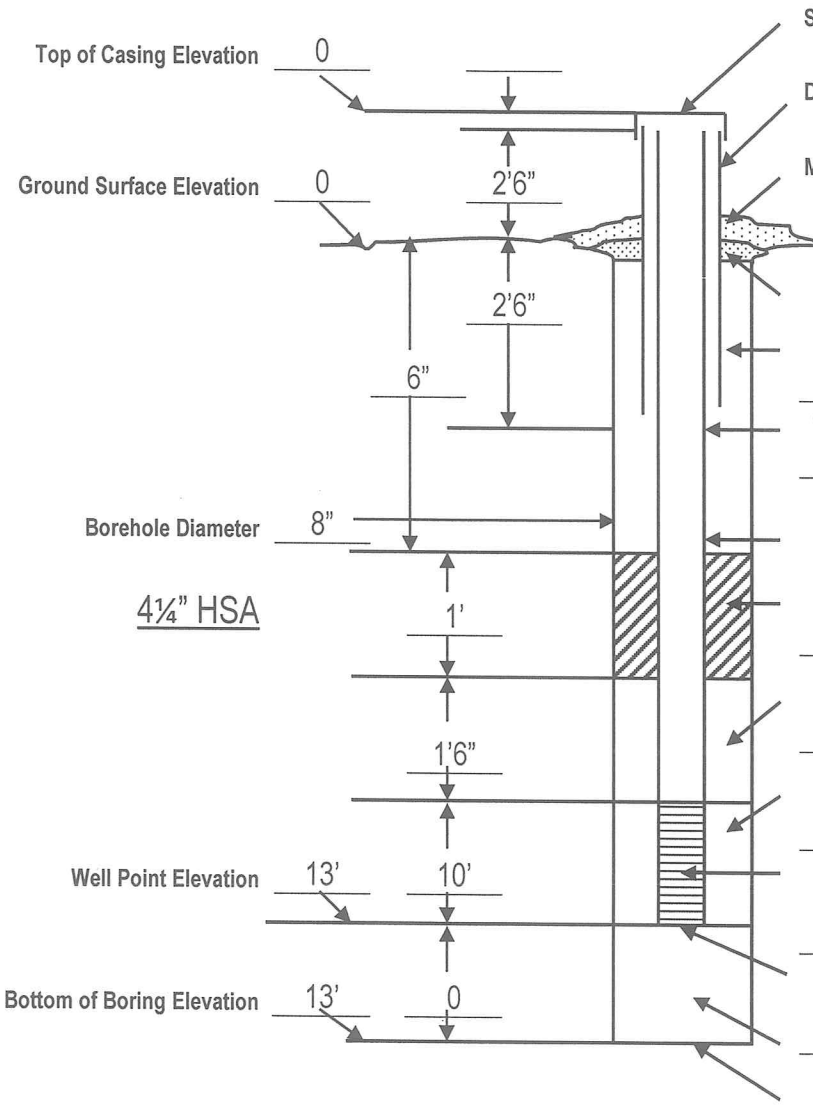
SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-104 **By:** MK/ao **JOB #:** E5-1205-19 **DATE:** 2/20/19



Stick Up Vented Locking Steel Cap X Yes ___ No

Drive/over w/Bolting Cover ___ Yes X No

Mounded Backfill X Yes ___ No

Concrete Collar ___ Yes X No

Backfill Material Sand

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes X No

Screen	10'	Bentonite Pellets	½ bag	Locking Exp. Plug	1
Riser	5'	Bentonite Chips		Lock	
Plug	1	Concrete Mix		D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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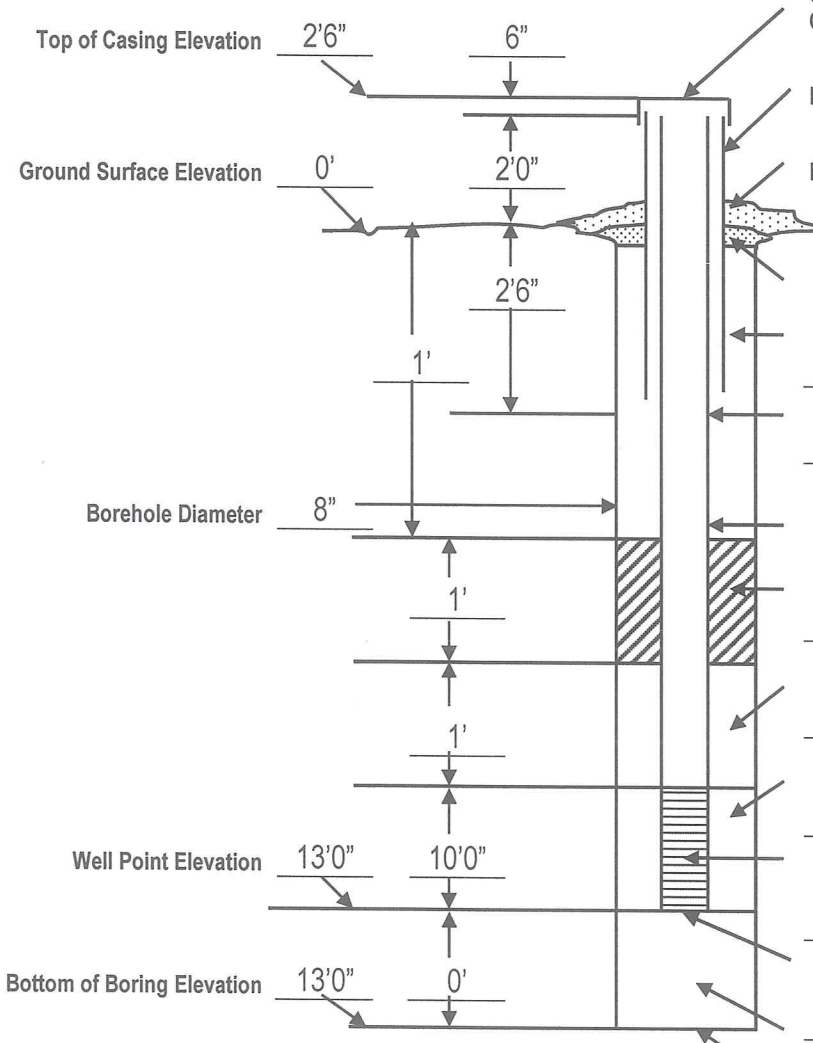
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates

Monitor Well # MW-4 4/5/19 (MK/ao) with 4 ¼" HSA

JOB #: E5-1205-19



Stick Up Vented Locking Steel Cap ✓ Yes ___ No

Drive/over w/Bolting Cover ___ Yes ✓ No

Mounded Backfill ✓ Yes ___ No

Concrete Collar ___ Yes ✓ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D. 2.067" O.D. 2.375"

Joint Type thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material n/a

Refusal ___ Yes ___ No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	⅔ bag	Lock	
Plug	1	Concrete Mix		D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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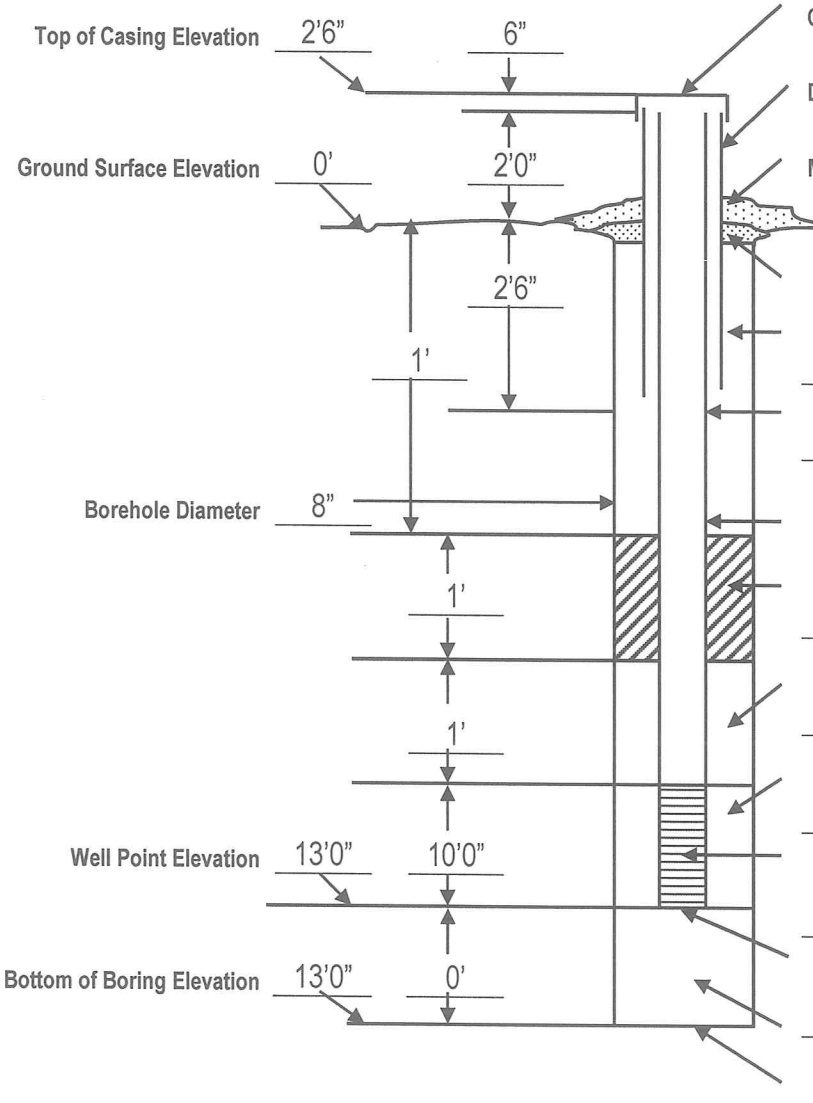
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates

Monitor Well # MW-5 4/5/19 (MK/ao) with 4 ¼" HSA

JOB #: E5-1205-19



Stick Up Vented Locking Steel Cap ✓ Yes ___ No

Drive/over w/Bolting Cover ___ Yes ✓ No

Mounded Backfill ✓ Yes ___ No

Concrete Collar ___ Yes ✓ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D. 2.067" O.D. 2.375"

Joint Type thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material n/a

Refusal ___ Yes ___ No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	⅔ bag	Lock	
Plug	1	Concrete Mix		D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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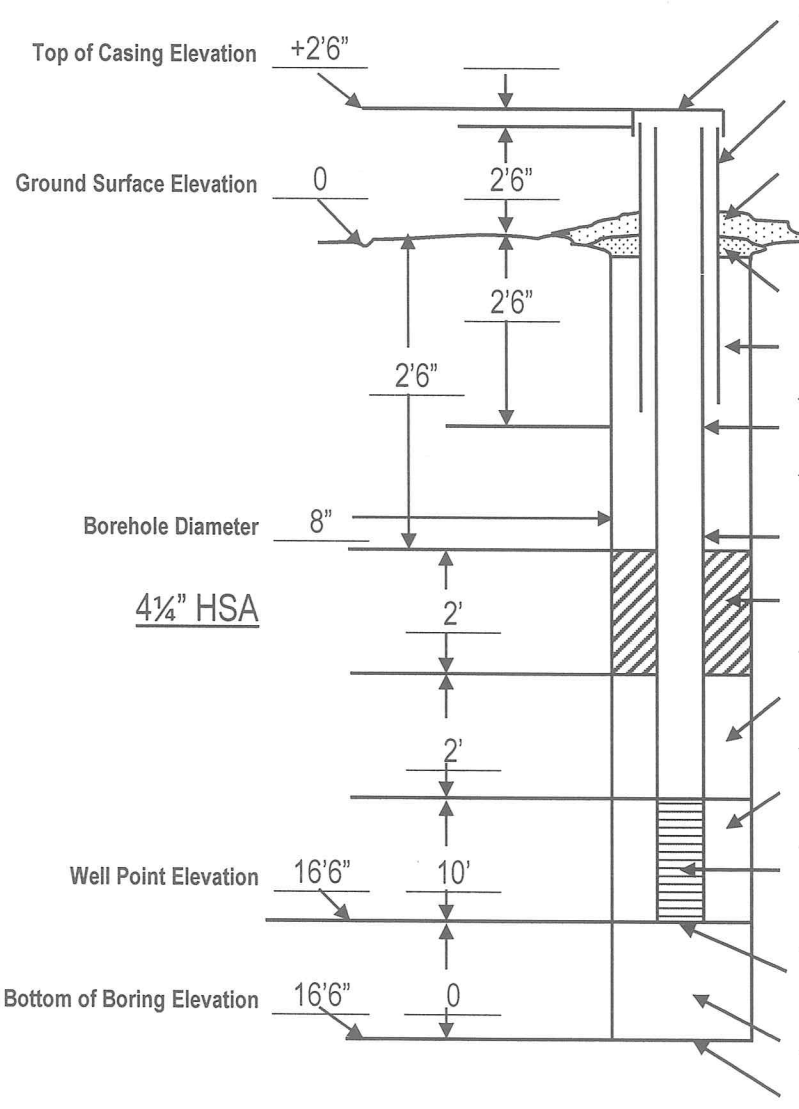
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-106 **By:** MK/ao

JOB #: E5-1205-19 **DATE:** 2/20/19



Stick Up Vented Locking Steel Cap X Yes ___ No

Drive/over w/Bolting Cover ___ Yes ___ No

Mounded Backfill X Yes ___ No

Concrete Collar ___ Yes X No

Backfill Material Sand

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes X No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	
Riser	10'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix		D/O	
Slip Cap		Portland Cement		S/U	
Silica Sand	400#				
Powdered Bentonite					

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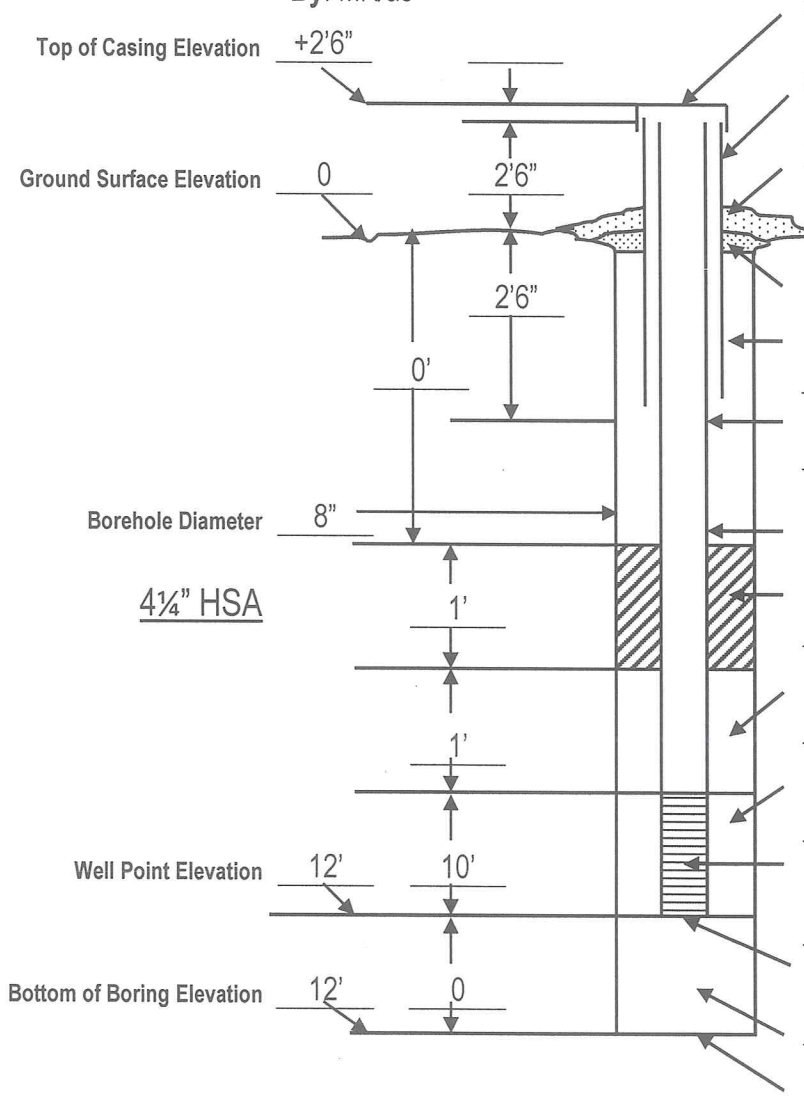
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-106A
By: MK/ao

JOB #: E5-1205-19 **DATE:** 2/28/19



Stick Up Vented Locking Steel Cap X Yes ___ No

Drive/over w/Bolting Cover ___ Yes ___ No

Mounded Backfill X Yes ___ No

Concrete Collar X Yes ___ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes X No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1	D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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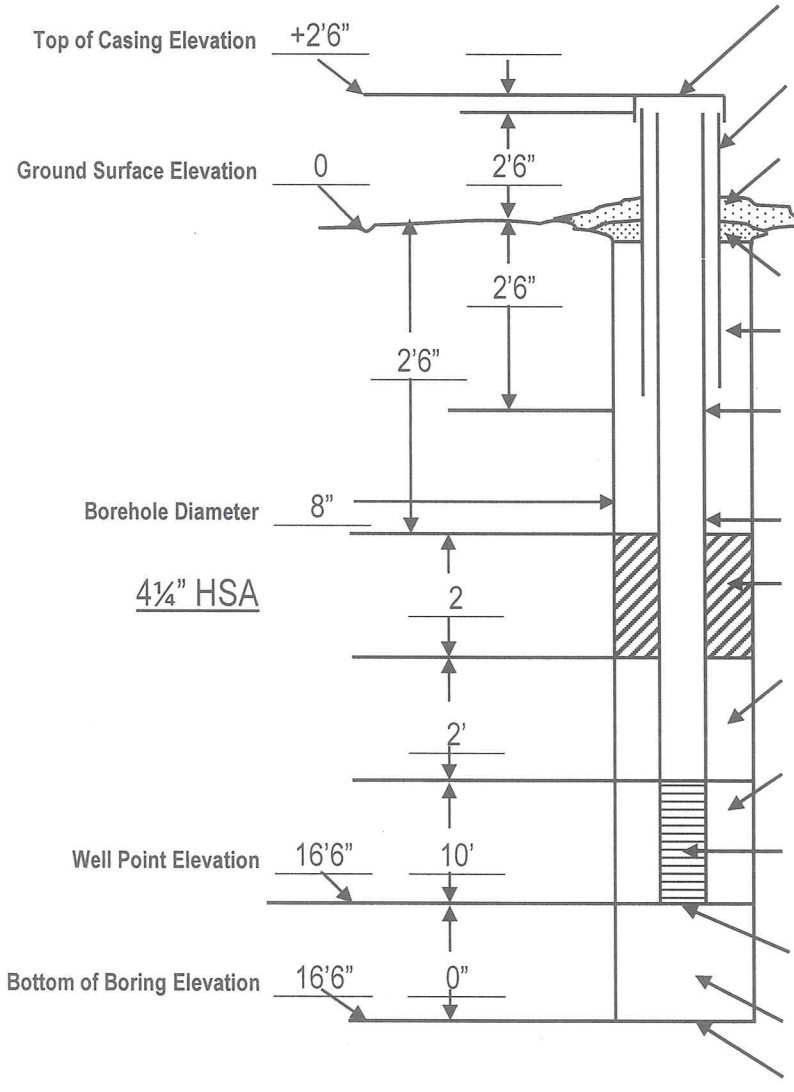
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-107 **By:** MK/ao **JOB #:** E5-1205-19 **DATE:** 2/20/19



Stick Up Vented Locking Steel Cap X Yes ___ No

Drive/over w/Bolting Cover ___ Yes ___ No

Mounded Backfill X Yes ___ No

Concrete Collar ___ Yes X No

Backfill Material Sand

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes ___ No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes X No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	
Riser	10'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix		D/O	
Slip Cap		Portland Cement		S/U	
Silica Sand	750#				
Powdered Bentonite					

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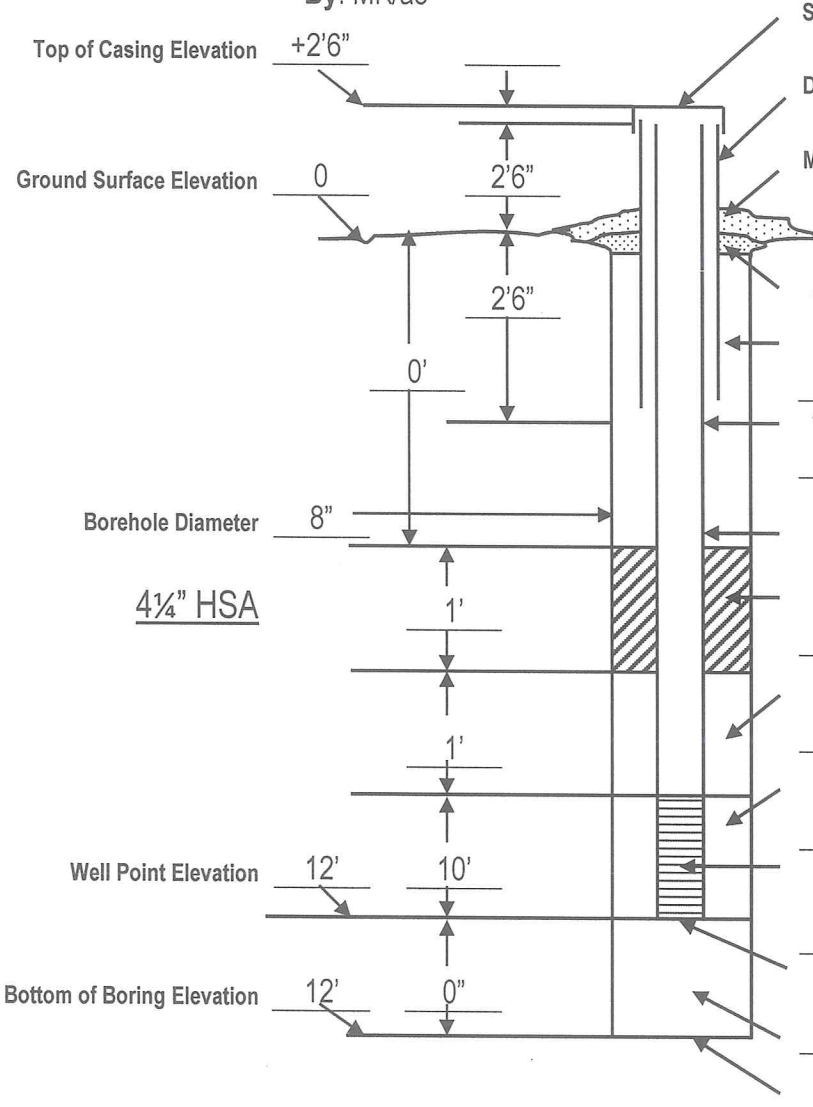
GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-107A
By: MK/ao

JOB #: E5-1205-19 **DATE:** 2/28/19



Stick Up Vented Locking Steel Cap X Yes ___ No
Drive/over w/Bolting Cover ___ Yes ___ No
Mounded Backfill X Yes ___ No
Concrete Collar X Yes ___ No
Backfill Material Formation
Type of Casing Screen 2" SCH 40 PVC
I.D 2.067" O.D. 2.375"
00Sand thd'd F.J.
Impermeable Backfill Bentonite Chips
Backfill Material #1 Silica Sand
Screen Packing #1 Silica Sand
Filter Fabric ___ Yes X No
If yes, Type ___
Screen Slot Size .010
Backfill Material ___
Refusal ___ Yes X No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1	D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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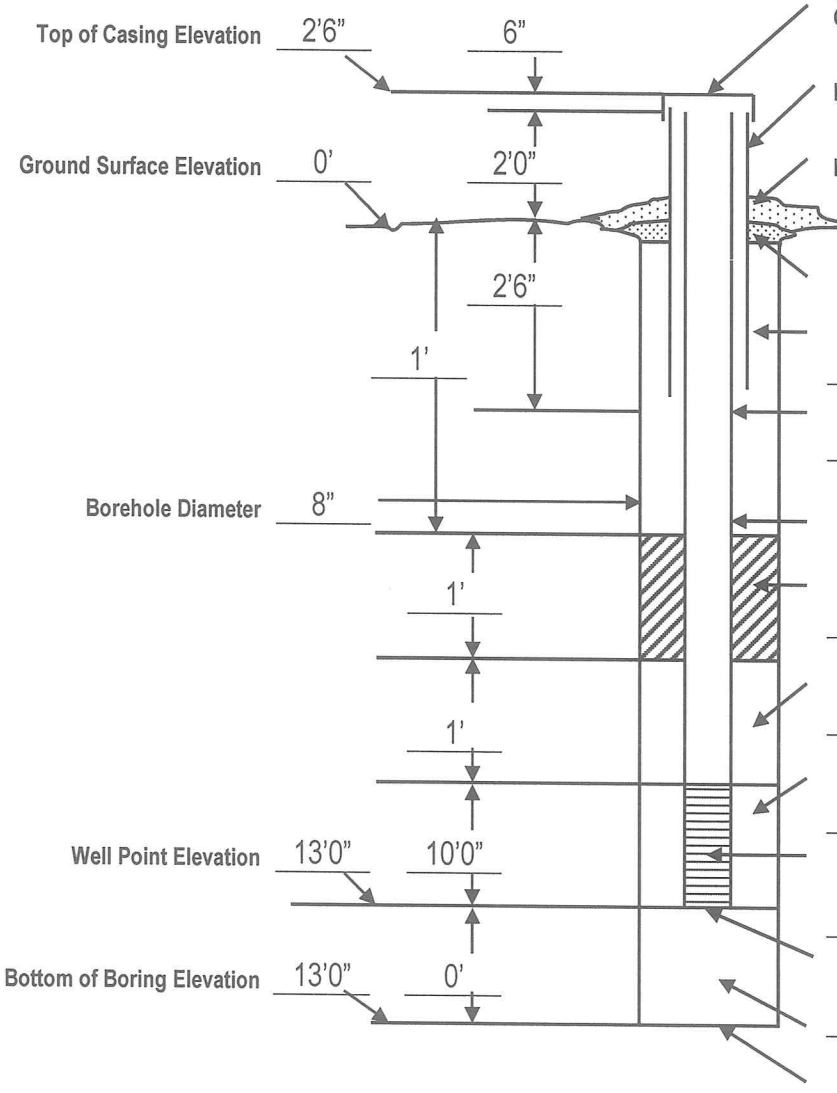
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates
JOB #: E5-1205-19

Monitor Well # MW-8 4/5/19 (MK/ao)
with 4 ¼" HSA



Stick Up Vented Locking Steel Cap — ✓ Yes ___ No
Drive/over w/Bolting Cover — ___ Yes ✓ No
Mounded Backfill — ✓ Yes ___ No
Concrete Collar — ___ Yes ✓ No
Backfill Material: Formation
Type of Casing Screen: 2" SCH 40 PVC
I.D. 2.067" O.D. 2.375"
Joint Type: thd'd F.J.
Impermeable Backfill: Bentonite Chips
Backfill Material: #1 Silica Sand
Screen Packing: #1 Silica Sand
Filter Fabric — ___ Yes X No
If yes, Type: ___
Screen Slot Size: .010
Backfill Material: n/a
Refusal — ___ Yes ___ No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	⅔ bag	Lock	
Plug	1	Concrete Mix		D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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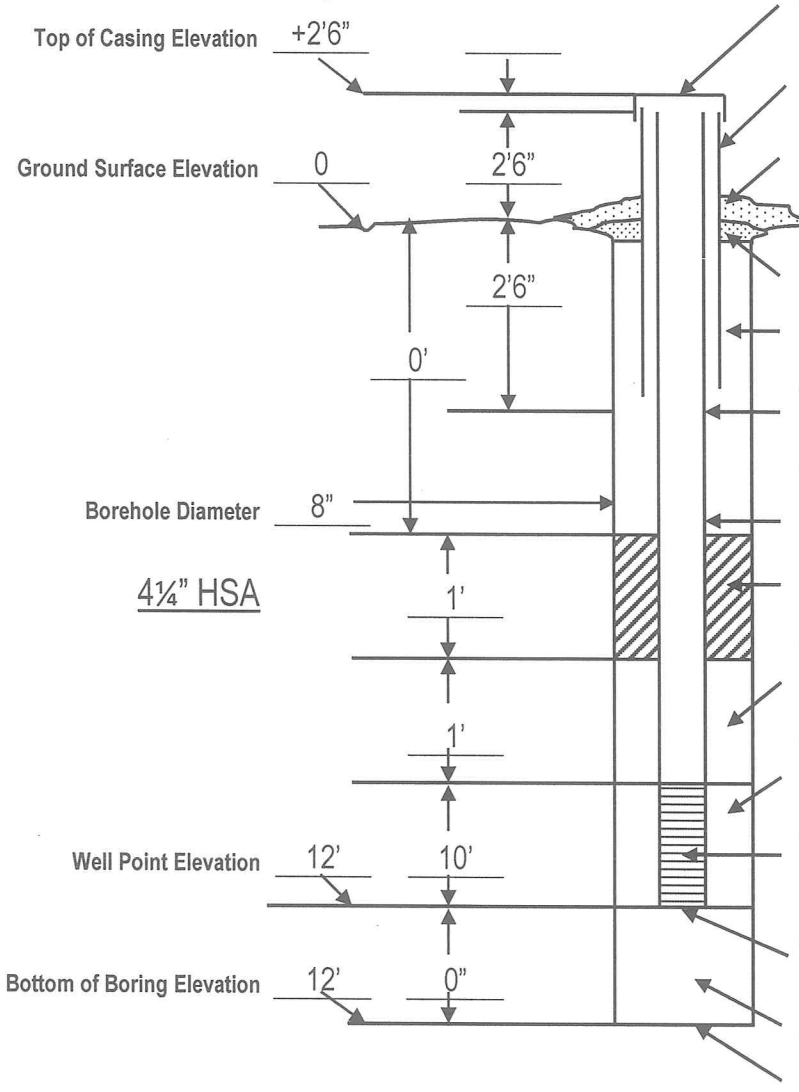
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-109 **JOB #:** E5-1205-19 **DATE:** 2/28/19

By: MK/ao



Stick Up Vented Locking Steel Cap X Yes No

Drive/over w/Bolting Cover ___ Yes ___ No

Mounded Backfill X Yes ___ No

Concrete Collar X Yes ___ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes X No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1	D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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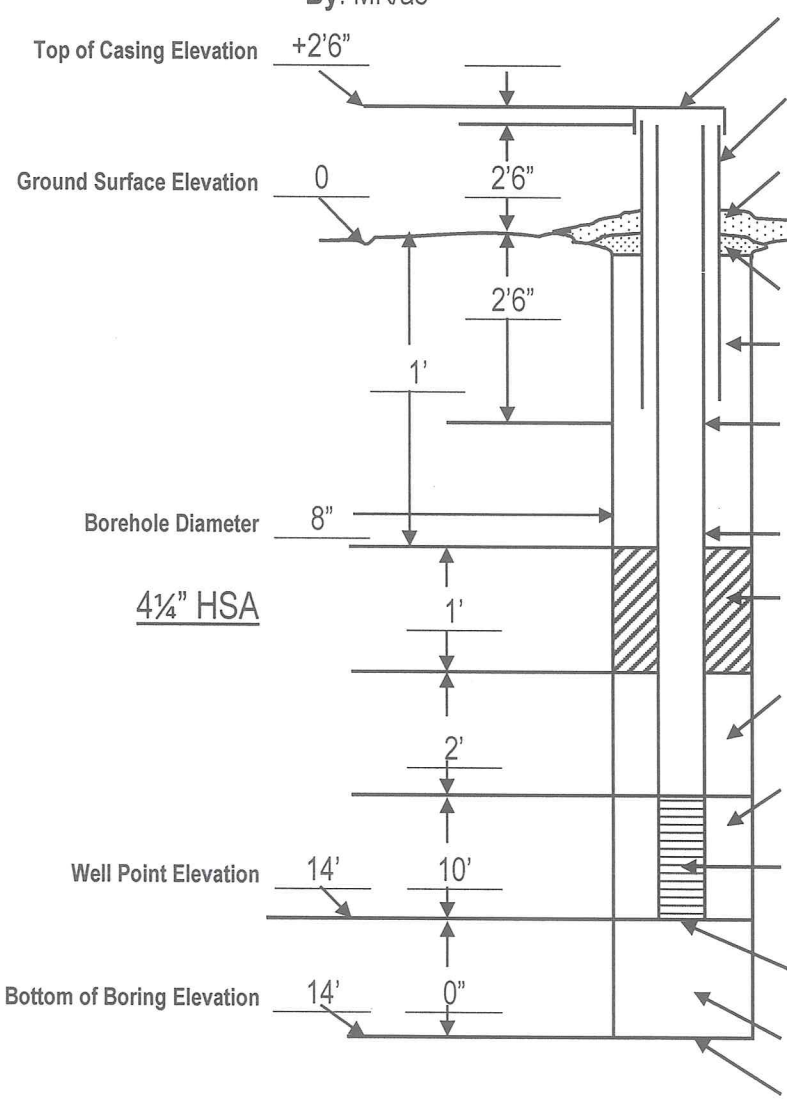
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-110 **JOB #:** E5-1205-19 **DATE:** 3/1/19

By: MK/ao



Stick Up Vented Locking Steel Cap X Yes ___ No

Drive/over w/Bolting Cover ___ Yes ___ No

Mounded Backfill X Yes ___ No

Concrete Collar X Yes ___ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes ___ No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1	D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

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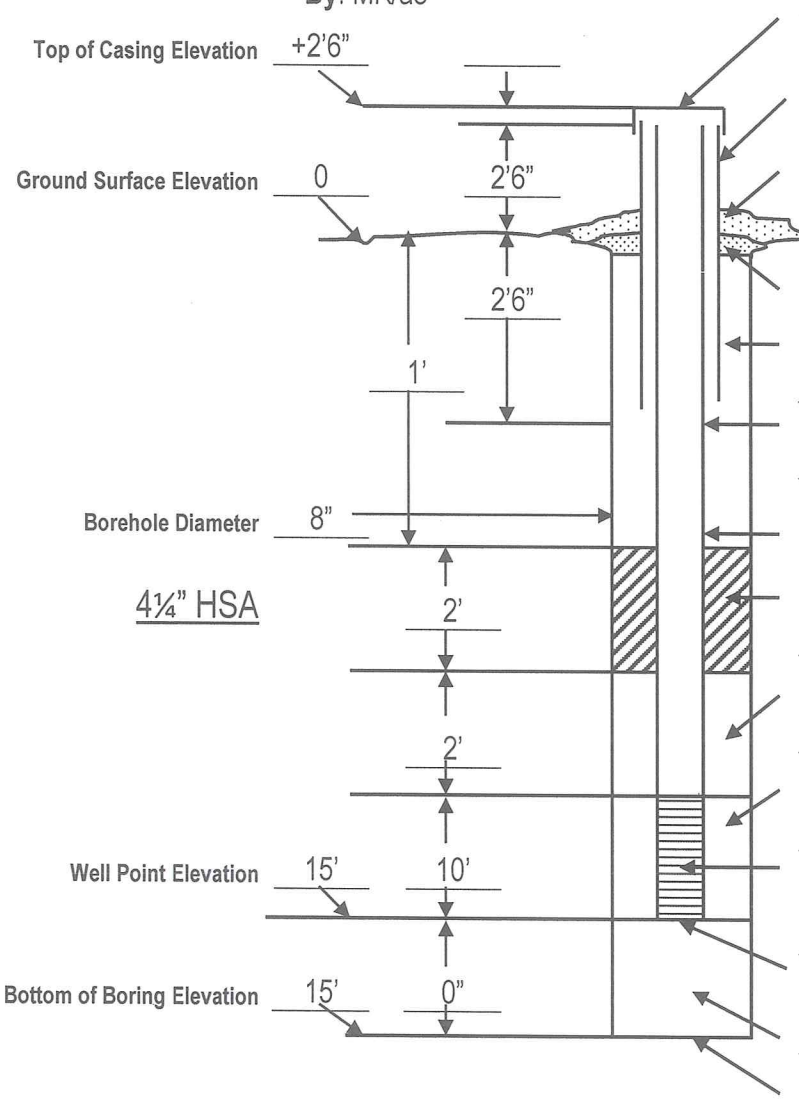
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Geo-Technology Associates, Inc.

Monitor Well # MW-111 **JOB #:** E5-1205-19 **DATE:** 3/1/19

By: MK/ao



Stick Up Vented Locking Steel Cap X Yes ___ No

Drive/over w/Bolting Cover ___ Yes ___ No

Mounded Backfill X Yes ___ No

Concrete Collar X Yes ___ No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D 2.067" O.D. 2.375"

00Sand thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material ___

Refusal ___ Yes ___ No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1	D/O	
Slip Cap		Portland Cement		S/U	1
Silica Sand	400#				
Powdered Bentonite					

Appendix E
Field Sampling Plan

APPENDIX E– FIELD SAMPLING PLAN

For soil sampling performed pursuant to this SMP, visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially contaminated material (remaining contamination). Sampling of soil should be performed using discrete sampling methodologies when sampling for potential on-site reuse. Chemical analysis will be performed for the full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides, PFAS and PCBs). Sampling performed for potential off-site disposal shall be done pursuant to criteria applicable to the selected disposal facility.

Groundwater sampling is proposed in this SMP. Prior to each sampling event, the presence of LNAPL shall be evaluated using an oil/water interface probe. The amount of LNAPL encountered shall be recorded to the nearest 0.1 inch. If 0.1 inch or more of LNAPL is encountered, sampling of the well shall not be completed and an absorbent sock shall be placed in the well. This sock shall be replaced each month until no LNAPL is encountered. Sampling of the well shall be included in the next scheduled sampling event following the determination that no LNAPL remains. If LNAPL is encountered in any of the wells, NYSDOH and NYSDEC will be notified within a day of the discovery.

Groundwater samples will be collected from existing monitoring wells following a standard three-volume purge. Efforts should be made to purge and sample the wells using methods to reduce turbidity. The samples shall be submitted to a certified laboratory for VOCs, SVOCs, and metals analysis. Metals analysis should include filtered and unfiltered samples.

All sampling equipment shall be decontaminated pursuant to current NYSDEC and NYSDOH guidance. All decontamination materials shall be removed from the Site, and will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations.

Appendix F
Quality Assurance Project Plan

QUALITY ASSURANCE PROJECT PLAN

CSH-CRP GREENBURGH SITE
715 DOBBS FERRY ROAD
TOWN OF GREENBURGH
WEST CHESTER COUNTY, NEW YORK
APRIL 2020

1.0 PROBLEM DEFINITION

This Quality Assurance Project Plan (QAPP) was prepared by GTA Engineering Services of New York, PC (GTA) for the CSH-CRP Greenburgh Site (the "subject property" or "subject site"), located at 715 Dobbs Ferry Road, Town of Greenburgh, Westchester County, New York. The approximate 6.89-acre subject site contains a senior living facility. This QAPP has been prepared in connection with the Site Management Plan (SMP) that has been prepared for submittal to the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

The QAPP provides the quality assurance procedures that are to be followed when evaluating the results for samples collected as part of the remedial action. The QAPP was prepared in accordance with New York State Department of Environmental Conservation (NYSDEC) guidance and regulations, as well as guidance provided in U.S. Environmental Protection Agency (USEPA) *EPA Requirements for Quality Assurance Project Plans* (EPA/240/B-01/003, March 2001), and *Guidance for Quality Assurance Project Plans* (EPA/240/R-02/009, December 2002).

This QAPP may be amended or revised to include additional site specific QA/QC procedures, as warranted by field conditions. Should additional phases of work be required, an addendum will be prepared to this QAPP to address those activities.

2.0 SITE SPECIFIC PROJECT AND DATA QUALITY OBJECTIVES

The purpose of the proposed remedial action is to evaluate groundwater quality. The objective of the remedial verification sampling is to demonstrate compliance with those standards in accordance with NYSDEC rules and guidance. Achieving these objectives will

require that data quality objectives and attendant data quality requirements be met, and that the data fall within acceptable levels of uncertainty.

3.0 SAMPLING DESIGN & METHODOLOGY

Groundwater samples will be collected with proper attention to quality assurance protocols, conforming to the guidelines and requirements set forth by NYSDEC. Specifically, groundwater samples will be collected using dedicated Teflon bailers and/or tubing. In the event that sampling for PFAS is required, sampling should conform to the most recent guidance issued by the NYSDEC (currently outlined in *Guidelines for Sampling and Analysis of PFAS*, January 2020). Prior to each sampling event, the presence of LNAPL shall be evaluated using an oil/water interface probe. If LNAPL is encountered, sampling of the well shall not be completed and an absorbent sock shall be placed in the well. Groundwater samples will be collected from existing monitoring wells following a standard three-volume purge. The samples would be submitted to a certified laboratory for VOCs, SVOCs, and metals analysis.

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially contaminated material (remaining contamination). Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Full suite sampling (VOCs, SVOCs, TAL Metals, and PFAS) will be completed on any soils from underneath the cover system prior to any reuse on site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, or within landscaping berms.

4.0 FIELD DOCUMENTATION PROCEDURES

All pertinent information regarding the site and sampling procedures will be documented in a project-specific field logbook. Information recorded in the logbook will generally include:

- Name and location of the site;
- Date and time of arrival and departure;
- Persons contacted and visitors to the site;
- Names of all persons on-site;
- Field instrumentation utilized, calibration data;
- Decontamination Procedures;
- Location(s) of sampling points, sketch;
- Sample identification number, volume, sample method;
- Date and time of sample collection;
- Name(s) of collectors;
- Weather conditions;
- Description and number of coolers used for shipment;
- Chain of Custody Number, waybill number, cooler number; and
- Name and address/telephone of laboratory.

As a part of field activities, photographic records may be prepared. Photographs will be in color and will record the significant characteristics of the activity (e.g., general site conditions, geologic features, environmental impacts, field equipment and installations, sampling stations, and field testing). When either excavation or trench work is performed, photographs will be taken of the subsurface profiles, if possible. A log will be kept of the photographs being taken that records the project number, date taken, and a brief description.

Environmental samples collected in the field will be assigned a unique identification number. Sample numbers will be alpha-numeric in nature. The purpose of the numbering system will be to assist in the tracking of samples and to facilitate retrieval of analytical results. The sample identification number will be used on sample labels, sample tracking matrix forms, chain-of-custody forms, field logbooks and other applicable documentation. Sample identification formats will be selected to be consistent with prior sampling events.

5.0 FIELD INSTRUMENTATION

Water quality meters will be used when collecting during groundwater samples. The water quality meters will be maintained in accordance with the manufacturer's specifications. The water quality meters will be calibrated prior to use each day of field activity, with a calibration check performed after significant use or a change in site conditions (e.g., weather). The calibration procedures will be documented.

6.0 SAMPLE HANDLING PROCEDURES

An overriding data quality consideration for environmental samples is the ability to demonstrate that they were obtained from the locations stated, and that they reached the laboratory without alteration. Evidence of collection, shipment, laboratory receipt and laboratory custody until disposal must be documented to accomplish this.

Sample labels are required for properly identifying samples. All samples collected will be properly labeled using indelible ink with the label affixed to the sample container prior to field storage and transportation to the laboratory. Information on the sample labels will include the following:

- Project Name;
- Sample Identification Number;
- Sampler(s) initials;
- Preservative used;
- Analysis Requested; and
- Date/Time when sample was collected.

Immediately following sample collection and labeling, samples are to be stored in a cooler or shipping container containing ice. The storage containers shall be stored within view of the sampling technician or within a secure area. At the end of the sampling event, all samples for chemical analysis will be prepared for shipment to the analytical laboratory. Sample packaging for shipping procedures are listed as follows:

- Each container will be checked for a properly completed sample identification label;
- A cooler or laboratory-prepared sample shipping container will be used to ship the samples;
- Sample bottles will be placed in the shipping container and secured with packing material as required;
- All samples will be maintained at 4^{o}C during storage and shipment using coolant;
- The chain-of-custody record will be placed in a plastic bag, sealed, and taped to the inside of the shipping container lid;
- A signed and dated custody seal will be placed across the front (non-hinged) edge of the shipping container;

- The shipping container will be labeled in accordance with Chapter 11 of the FSPM (if required); and
- The cooler will be relinquished to the courier with the required signed and dated handbill.

Chain-of-Custody (COC) procedures will be implemented to document the handling of each sample from the time of collection until it is destroyed. COCs establish a record of sample collection, transfer of samples between personnel, sample shipping, and receipt by the laboratory. The COC form serves as the legal record of possession of a sample.

For sampling related to PFAS, the most recent guidance provided by NYSDEC should be used to develop the sampling methods (currently *Guidelines for Sampling and Analysis of PFAS*, January 2020).

7.0 ANALYTICAL METHODS

Analytical methods to be used after the remedial activities are summarized on the following table. A summary of the sample container, preservation, and holding time requirements for the analytical methods are provided on the laboratory's website.

Analytical Methods

Parameter	Method
SVOCs	EPA 625/SW846 8270
VOCs	EPA 624/SW846 8260
PCBs/Pesticides	EPA 624/SW846 8082/8081
Metals	EPA 624/SW846 6020B, 7470A
PFAS	EPA 537 (or as may be specified by NYSDEC or NYSDOH at the time samples are collected)

8.0 LABORATORY QA/QC

Samples will be analyzed by Alpha, Westborough, Massachusetts (Certification #11148). GTA maintains a copy of Alpha's Quality Systems Manual, which outlines specific QA/QC

practices/procedures employed by Alpha. A summary of Alpha' Policy Statement concerning QA/QC is provided below.

"This Quality Systems Manual summarizes the policies, responsibilities and operational procedures associated with Alpha Analytical. This manual applies to all associates of the laboratory and is intended for use in the on-going operations at Alpha Analytical. Specific protocols for sample handling and storage, chain-of-custody, laboratory analyses, data reduction, corrective action, and reporting are described. All policies and procedures have been structured in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) TNI 2009 standards, applicable EPA requirements, regulations, guidance, and technical standards and current DOD QSM standards. This Quality Systems Manual, laboratory Standard Operating Procedures (SOPs), and related documentation describe the quality systems, policies and procedures for Alpha Analytical.

Alpha Analytical performs chemical analyses for inorganic and organic constituents in water, seawater, soil, sediment, oil, tissue and air matrices. Alpha Analytical's goal is to produce data that is scientifically valid, technically defensible, and of known and documented quality in accordance with standards developed by NELAC and any applicable state or EPA regulations or requirements. It is the commitment of the President, Operations Director, Laboratory Technical Manager and Quality Assurance Officer to work towards continuous improvement of the operation, and towards meeting our customer's needs, requirements, and intended data usage. This continued commitment is built into every activity of the laboratory. It is the responsibility of Senior Management and the Department Managers to ensure that all associates familiarize themselves with, and comply at all times with, the quality systems, procedures and policies set forth in this manual, laboratory SOPs, and related documentation.

Alpha Analytical analyzes Proficiency Test (PT) samples, in accordance with NELAC and other regulatory programs, from a National Institute of Standards and Technology (NIST)-approved PT provider for the analytes established by EPA for water samples, and for other

analytes and matrices. The specific analytes and matrices analyzed are based on the current scope of the laboratory services as documented in the laboratory SOPs and state certifications.

The technical and service requirements of all requests to provide analyses are thoroughly evaluated before commitments are made to accept the work. This includes a review of facilities and instrumentation, staffing, and any special QC or reporting requirements to ensure that analyses can be performed correctly and within the expected schedule. All measurements are made using published reference methods or methods developed by Alpha Analytical. Competence with all methods is demonstrated according to the procedure described in SOP/1739 prior to use."

9.0 LABORATORY DATA DELIVERABLE FORMAT

GTA will provide the NYSDEC with electronic Category B laboratory data deliverables in accordance with the NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation*.

10.0 DATA VERIFICATION AND USABILITY REVIEW

Analytical data will be independently validated by a third-party quality assurance professional. In this process, laboratory data are subjected to a comprehensive technically-oriented evaluation by personnel experienced in the analysis and review of data from environmental matrices. Procedures for analyses conducted under the CLP SOW documents will be from the U.S. EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 1999), the DRAFT FINAL - USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (January 2005), and the National Functional Guidelines for Inorganic Data Review (EPA 2004). US EPA Region 2 Data Validation Standard Operating Procedures will be followed for analyses conducted in accordance with SW-846 methods. Validation of data for the remaining analyses will be in accordance with method requirements.

Data usability decisions will be made by the GTA project manager with input from the project quality assurance officer and team members tasked with activities that rely on the data. Data usability will be assessed with respect to the specific requirements of the project as described herein. Data are intended to be used to characterize concentrations of organic and inorganic chemicals with respect to applicable remediation standards.

While the data quality objectives as specified in this QAPP serve as starting points for this usability assessment, they are not the only factors that will be relied upon in determining usability for specific purposes. Data that may be unusable for one purpose may be appropriate for other purposes.

The sampling effort has been designed to provide representative data for the matrix potentially affected by the contaminants of concern. Analytical methods have been selected to ensure that data will be comparable to that generated for other environmental assessments conducted under the direction or oversight of the NYSDEC. Analytical methods for definitive data analysis have been selected to be at or below NYSDEC remediation standards to the extent practical. The data validation reports will provide a summary for the remaining data quality measures, precision, accuracy, sensitivity and completeness. Any deficiencies in the data set, such as the inability to collect planned samples, a failure to meet reporting limit objectives, evidence of bias, or rejection of data will be evaluated for their impact on specific end uses.

Typical data usability assessment details are provided below:

Precision: Laboratory precision will be evaluated based on analyses of sample replicates and/or replicate spikes of samples. Results of all field duplicate analyses will be compared and relative percent differences calculated and presented in the validation reports. Poor overall precision may indicate field sample non-homogeneity, improper field sampling techniques, sample transport problems or analytical issues as reflected in the laboratory replicate analyses. Data will be evaluated on an ongoing basis so that if the cause of poor precision appears to be sampling procedures or laboratory method

implementation, corrective actions will be taken. If project precision goals are not met, data must be interpreted accordingly and the uncertainty for specific locations or a specific parameter taken into account in the usage of the data. Relative percent differences will be averaged for all analytes detected above the quantitation limit.

Accuracy/bias: Accuracy and bias will be evaluated during data validation through review of quality control measurements such as calibration analyses, method blanks, interference check samples, surrogate recoveries, and laboratory control and matrix spikes. Potential bias to individual results as evidenced by exceedences of the control limits presented in this QAPP will be summarized and reviewed. Particular attention will be paid to any apparent trends or consistency in bias for a particular analyte or sample matrix. The resulting uncertainty in the data must be taken into account for the different uses planned. Recoveries for surrogates and spikes will be statistically analyzed for program samples to determine outliers based on the specific matrices of this site rather than on the laboratory limits that are derived from numerous programs over time.

Sensitivity: Reporting limits presented in this QAPP are in most cases defined by the methods and are set at the concentration of the lowest standard. These limits may not be achievable for samples with significant interferences, and the usability of data in these cases may be limited. Reporting limits above criteria or standards will not allow a demonstration of compliance with remediation standards. GTA will review those instances where reporting limit objectives have not been met, and if the measurements at their respective reporting limits are considered critical for project purposes, resampling or other corrective measures may be taken.

Completeness: The data completeness is determined as the percentage of usable data points compared to the number of samples collected for a specific analysis or matrix. Lack of completeness may be the result of sample loss during transport or analysis or rejection due to unacceptable quality control results for the analysis. No data that are rejected based on the validation will be considered usable for project purposes. Data

completeness will be evaluated with respect to each intended use. Lack of completeness for a data set may have different impacts on the risk assessment as compared to the modeling efforts. Since this is a program anticipated to extend over a significant time period with multiple sampling efforts, unusable data considered critical may be replaced through corrective actions including possible resampling.

Data validation, including specific usability decisions for each sampling event, will be documented in the Final Engineering Report.

11.0 CORRECTIVE ACTION PRODECURES

If auditing of field activities or laboratory QC results shows the need for corrective action, immediate action will take place and will be properly documented. The Project Manager will determine the appropriate corrective action based on the nature of the performance issue and the intended use of the data. Corrective action alternatives may be as follows:

- Qualification/flagging of affected data;
- Discarding affected data and a review of necessity of the data point discarded;
- Discarding data and re-analysis; and
- Discarding data, re-sampling, and re-analysis.

12.0 DATA AND RECORDS MANAGEMENT PROCEDURES

Electronic data is routinely backed-up through the GTA office server. In addition, electronic data will be archived onto optical drive media following the completion of each remedial phase (e.g., Remedial Investigation, Remedial Action). Project reports will be archived on optical drive media and stored in the project file at the GTA office and copies of this data will be submitted to the NYSDEC.

Appendix G
Health and Safety Plan

HEALTH AND SAFETY PLAN
AND COMMUNITY AIR MONITORING PLAN

CSH-CRP GREENBURGH SITE
715 DOBBS FERRY ROAD
TOWN OF GREENBURGH
WEST CHESTER COUNTY, NEW YORK

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APPENDICES

1.0 OVERVIEW

This Health and Safety Plan (HASP) has been prepared by GTA Engineering Services of New York, PC (GTA) for evaluation of groundwater at 715 Dobbs Ferry Road, Town of Greenburgh, Westchester County, New York. This HASP also includes a Community Air Monitoring Plan (CAMP) outlining air quality monitoring procedures to be followed to protect the downwind community (i.e., offsite receptors, including residents and workers) from potential airborne contaminants associated with remediation and evaluation of the subject site. The CAMP was developed pursuant to New York State Department of Health (NYSDOH) guidance.

1.1 Emergency Contacts

1.1.1 Emergency Telephone Numbers

Police	911
Fire	911
Ambulance	911
Police (Non-Emergency)	(914) 989-1700
Fire (Non-Emergency)	(914) 422-6360
EPA National Response Center	(800) 424-8802
NY Poison Control Center	(800) 222-1222
NYSDEC Hotline	(800) 457-7362
NYS Dept. of Health	(866) 881-2809
Underground Utilities	(800) 272-1000

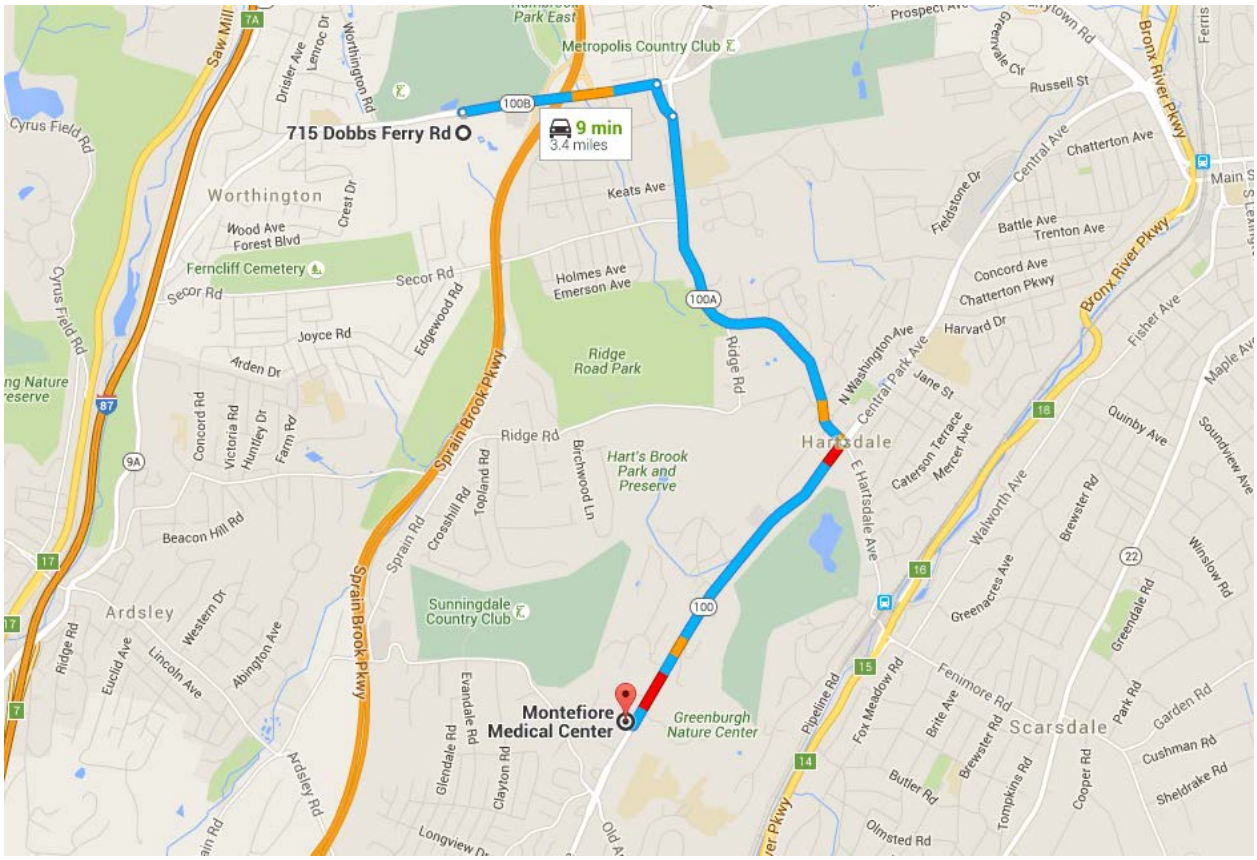
1.1.2 Primary Hospital (Emergency)

Montefiore Medical Center
495 Central Park Avenue, Scarsdale, New York (800) 636-6683

Directions to the Primary Hospital

From: (A) The Site: 715 Dobbs Ferry Road, Greenburgh, NY

To: (B) Montefiore Medical Center, 495 Central Park Avenue, Scarsdale, NY



1.	Head east on Dobbs Ferry Road	0.7 mi
2.	Turn right onto Hartsdale Road	0.1 mi
3.	Turn right onto West Hartsdale Avenue	1.4 mi
4.	Turn right onto South Central Avenue/Central Park Avenue	1.2 mi
	Total:	3.4 mi

1.2 Acknowledgements

1.2.1 Approvals

By their signatures, the undersigned approve this HASP for use by GTA personnel during the specified operations at the CSH-CRP Greenburgh Site, Town of Greenburgh, Westchester County, New York.

Health and Safety Officer Date

Project Manager Date

1.2.2 Field Team Review

Each GTA field team member shall sign this section after site-specific/task-specific training is completed and before being permitted to work on-site.

I have read or have been verbally advised of all aspects of this Health and Safety Plan for the CSH Greenburgh Site, Greenburgh Township, Westchester County, New York. I understand and will comply with the provisions contained therein.

Date	Name	Signature

2.0 INTRODUCTION

2.1 Purpose

This Health and Safety Plan (HASP) details the minimum requirements and standard operating procedures to be implemented by GTA for specific operations (groundwater evaluation) at the CSH-CRP Greenburgh Site.

2.2 Limitations

This HASP is for use by GTA personnel only during the specified operations at the CSH-CRP Greenburgh Site, Town of Greenburgh, Westchester County, New York. This HASP may be provided to the Client (CSH Greenburgh, LLC) and designated contractors for their information and as a framework for preparing other HASPs. The contractors should

independently assess the available information and implement appropriate measures to protect the health and safety of their employees and subcontractors. Information and recommendations contained in this plan should not in any way be construed as relieving the contractors or their subcontractors of their responsibilities for site health and safety.

2.3 Guidelines

The HASP has been prepared in general conformance with applicable federal, state, and local regulations, including, but not limited to:

- U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) Section 29 Code of Federal Regulations (CFR) 1910.120, "Hazardous Waste Operations and Emergency Response."
- OSHA 29 CFR 1926, "Safety and Health Regulations for Construction."

Additionally, the following have been used as reference in the development of the HASP:

- National Institute for Occupational Safety and Health/OSHA/U.S. Coast Guard/U.S. Environmental Protection Agency, Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, October 1985.
- U.S. Department of Health and Human Services, June 1997, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health (NIOSH), NIOSH Pocket Guide to Chemical Hazards.
- OSHA, "Permissible Exposure Limits," 29 CFR Part 1910, Subpart Z – Toxic and Hazardous Substances.

3.0 SCOPE AND APPLICABILITY

3.1 Site Description

The approximate 6.89-acre subject site is located at 715 Dobbs Ferry Road in the Town of Greenburgh, Westchester County, New York and contains a senior living facility. A *Site Location Map (Figure 1)* is included in *Appendix A*.

3.2 Environmental Background

Groundwater monitoring wells require period monitoring to document groundwater quality following soil remediation activities performed prior to issuance of the Site Management Plan.

3.3 Scope of Work

The objective of this HASP is to provide site-specific procedures to protect health and safety of GTA personnel during the groundwater evaluation activities.

3.4 HASP Revisions

The health and safety practices, procedures, and personal protective equipment (PPE) requirements established for this project are based on existing information on the chemical and physical hazards known to be present at this site. This HASP, however, is a dynamic document. Its content may change or undergo revision to reflect changes in project scope and site conditions. Any proposed changes must be reviewed by GTA's Health and Safety Officer (HSO). The Field Change Request Form provided in *Appendix B* may be used to initiate such changes.

4.0 PERSONNEL RESPONSIBILITIES

The responsibilities of GTA's health and safety staff are described in the following sections. GTA personnel serving in these roles are identified in the *Overview* at the beginning of this HASP.

4.1 Project Manager (PM)

GTA's PM has the overall responsibility for the project and the health and safety of GTA personnel. The PM has the authority to suspend field activities if employees are in danger of injury or exposure to harmful agents. The PM's responsibilities include:

- Assure that appropriate health and safety equipment and PPE are available for project personnel;

- Assure that GTA personnel have received the appropriate training and medical examination, if required, before engaging in work activities; and
- Designate a site HSO who will assure compliance with the HASP.

4.2 Health and Safety Officer (HSO)

The primary responsibility of the HSO is to assure the GTA site activities are conducted in accordance with this HASP. The HSO may also assist the PM in the development and implementation of this HASP; review changes to this HASP; and assist in resolving any outstanding safety issues that arise during the conduct of site work. The HSO's responsibilities primarily include:

- Ensure that GTA employees comply with requirements of this HASP;
- Coordinate periodic safety briefings, and notify the Project Manager of any changes in work conditions or tasks which may require changes to the HASP;
- Manage health and safety equipment, including monitoring instruments and PPE, and oversee the decontamination procedures for GTA personnel;
- Evaluate conditions during field activities to determine proper PPE for use by GTA personnel;
- Suspend GTA field activities if conditions warrant, and coordinate with local emergency and health officials for emergency response. Authorization to proceed with work will be issued by the PM after any such action; and
- Delegate, if necessary and appropriate, some of these responsibilities to other on-site qualified site personnel.

4.3 Site Personnel

Site personnel will be responsible for the following:

- Becoming familiar with the information, instructions, and emergency response actions contained in this HASP; and
- Complying with rules, regulations, and procedures as set forth in this HASP and any future HASP revisions.

Non-GTA site personnel and contractors should independently assess the available information and implement appropriate measures to protect the health and safety of their employees and subcontractors.

4.4 Buddy System

Based on the site characterization performed to date, and nature of the proposed remediation, use of the buddy system is not anticipated. If necessary, the buddy system may be implemented when conducting field activities. This means that site personnel will work in groups of at least two when wearing PPE or when working in an exclusion zone.

4.5 Site Communication

Site personnel will have access to a working phone.

The following hand signals shall be reviewed during site specific training and shall be understood by personnel prior to commencement of site activities and shall be used, when necessary, during site operations.

TABLE 1
Hand Signal Summary

Hand Signal	Meaning
Thumbs up	OK, all right, I understand
Thumbs down	No, negative
Hands on top of head	Need assistance
Gripping partner's wrist/place hands on waist	Leave area immediately, no debate
Hand gripping throat	Out of air, can't breathe

5.0 HAZARD ASSESSMENT

5.1 Physical Hazards

5.1.1 General Hazards

A variety of physical hazards may be present during site activities including underground natural gas, electric, telephone, public water and sewer, and stormwater lines. Other primary physical hazards on the Site may be those associated with heavy equipment operation, working near excavations, the use of hand and power tools, electrical hazards, and handling and storage of solvents and fuels. Rubble, debris, and sloping/uneven terrain may be present at the Site and can contribute towards slip, trip, and fall hazards. These hazards are not unique and are generally familiar to hazardous waste site workers. Safe work practices for these potential hazards are outlined in *Section 6.0*.

5.1.2 Weather

Rain, lightning, wind, and similar weather conditions can create hazardous conditions that may warrant a suspension of GTA's site activities by the PM or HSO. Depending on the prevalent weather conditions, heat or cold stress related illnesses may be of concern to the workers during site activities (see *Sections 5.1.3* and *5.1.4*).

5.1.3 Heat Stress

Heat stress hazards are possible during field activities. Personnel, especially those in impermeable clothing, should be familiar with the signs and symptoms of heat stress, including **heat exhaustion** (dizziness, light-headedness, slurred speech, rapid pulse, confusion, fainting, fatigue, copious perspiration, cool skin that is sometimes pale and clammy, and nausea) and **heat stroke** (hot, dry, flushed skin, delirium, and coma [in

some cases]). Heat stroke is a life-threatening event and requires immediate medical attention. Other factors, such as a worker's acclimatization, level of physical fitness, and age, may increase or decrease his or her susceptibility to heat stress. Before assigning a task to an individual worker, these factors should be taken into account to ensure that the task will not endanger the worker's health.

Some preventive measures to avoid heat stress include:

- Frequent resting in cool or shaded areas, and
- Consumption of large quantities of fresh potable water or dilute electrolyte beverages (e.g., Gatorade®).

If heat stress is suspected or observed, the affected person must be moved to a cool or shaded area and given plenty of liquids to consume. If symptoms of heat stroke are observed, call 911 or transport the victim to the hospital immediately.

5.1.4 Cold Stress

Cold stress hazards are most likely to occur at low temperatures or low wind chill factors, with wet, windy conditions also contributing to risks. Cold exposure and hypothermia are possible during field activities. Workers should be familiar with the signs and symptoms of cold stress. Hypothermia is a cold-induced decreasing of the core body temperature that produces shivering, numbness, drowsiness, and muscular weakness. Frostbite is a constriction of blood vessels in the extremities, which limits the supply of warming blood. Symptoms of frostbite are white or grayish skin, blisters, numbness, mental confusion, failing eyesight, fainting, shock, and cessation of breathing.

5.1.5 Noise

During project activities, use of heavy equipment, running motors etc., may lead to elevated noise levels. Personnel who work near heavy equipment shall wear hearing protection if the 8-hour time-weighted average noise level exceeds 90 decibels. The HSO shall evaluate if noise monitoring is warranted. Hearing protection will be used as directed by the HSO. A general rule of thumb is that hearing protection must be worn if normal speech cannot be understood within an arms length of the person talking.

5.1.6 Biological Hazards

Biological hazards present at the site may include poisonous plants, insects, and animals. Workers should be familiar with the appearance of poison ivy and should wear impervious clothing, as necessary, to prevent contact with poison ivy. Ticks may be present throughout the site on brush, grass, and weeds. Some ticks carry disease, such as Lyme disease or Rocky Mountain spotted fever. Wear protective clothing or secure pant legs to lower legs or boots, and apply bug repellent to this area. When found, ticks should be removed in accordance with the recommendations of the American Lyme Disease Foundation. Small animals may be present on the site, and contact should be avoided.

5.2 Chemical Hazards

The primary contaminants of concern at the Site include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, pesticides, polychlorinated biphenyl (PCBs), and total petroleum hydrocarbons (TPH).

The Agency of Toxic Substances and Disease Registry (ATSDR) indicates that primary routes of exposure to the constituents of concern (COCs) are inhalation, ingestion, and dermal contact. Effects of exposure to these COCs vary and are multi-symptom, including the gastrointestinal, hepatic, renal, cardiovascular, neurological, dermal, respiratory, hematopoietic, and reproductive systems.

5.3 Task Hazard Assessment

The overall chemical hazard assessment for this site is low to medium, given the site history, previously detected contaminant concentrations, and the scope of proposed operations.

Use of personal protective equipment, along with good personal hygiene practices and proper decontamination procedures, will significantly reduce the potential for exposure through dermal contact or ingestion of chemicals at the site.

Contaminants of concern include VOCs, SVOCs, PCBs, metals, and TPH.

The following tables summarize chemical hazards associated with specific tasks, relative hazard assessment, proposed initial levels of protection, and air monitoring requirements. Additional action levels are provided in *Section 7.0*, Community Air Monitoring Plan.

TABLE 2
Task Specific Hazard Assessment with Proposed Levels of Protection and Air Monitoring

Task	Chemical Hazard Assessment	Estimated Initial Levels of Protection	Real-Time Air Monitoring		
			PAHs	PID	Dust
Groundwater Evaluation	Medium	D, gloves	--	--	--

NOTES: -- indicates not applicable
✓ indicates recommended, or if necessary

TABLE 3 Air Monitoring Action Levels			
Instrument	**Reading**	**Level of Respiratory Protection/Action**	**Cartridge Change Schedule [1]**
Dust Monitoring			
Dust Monitor	Background – 2.5 µg/m^3 (NT[1] in breathing zone)	Continue normal activities	--
Dust Monitor	2.5 µg/m^3 – 5.0 µg/m^3	Begin dust control	--
Dust Monitor	> 5.0 µg/m^3	Stop Work Consult PM and HSO	--
PID Action Levels			
PID (non-methane)	Background-0.5 ppm to 75 ppm (NT [2] in breathing zone)	Level D	--
PID (non-methane)	75 ppm to 1000 ppm	Level C	8 hours or end of shift, whichever is shorter
PID (non-methane)	>1000 ppm	Stop Work Consult PM and HSO	--

NOTES:

[1] If any breakthrough is experienced in terms of odor, taste, or irritation while wearing the respirator, personnel shall immediately exit the exclusion zone and report the incident to the HSO. The cartridge change schedule shall be revisited and modified as necessary or personnel may be required to upgrade to Level B respiratory protection.

[2] NT = Non-Transient

6.0 SAFE WORK PRACTICES

6.1 Site Control/Access

Based on the site evaluations performed to date, hazardous substances are currently proposed to be excavated; therefore, the establishment of specific work zones is proposed for this project. If necessary, excavation areas, including UST removal areas, may be secured as exclusion zones using caution tape, to prevent access by unauthorized personnel. If entry into an exclusion zone becomes necessary, the *Exclusion Zone Entry/Exit Log* in *Appendix C* may be utilized.

6.2 Routine Safe Work Practices

- Ignition sources in the vicinity of potentially flammable material are prohibited. When working in areas where flammable vapors may be present, particular care must be exercised with tools and equipment that may be sources of ignition. Tools and equipment provided must be properly bonded and/or grounded.
- Approved and appropriate safety equipment as specified in *Table 2* shall be worn where required.
- Beards that interfere with respirator fit are not allowed for GTA field personnel within the site boundaries, as all site field personnel may be called upon to use a respirator in some situations, and beards inhibit proper respirator fit.
- No smoking, eating or drinking is allowed in the contaminated areas. Contaminated

tools and hands must be kept away from the face. Do not unnecessarily touch a contaminated surface or allow your clothing, tools, or other equipment to do so.

- Persons with long hair and/or loose fitting clothing that could become tangled in power equipment must take adequate precaution.
- Use protective gloves to avoid the potential for burn injuries from touching hot surfaces.
- Handling materials in drums or other containers, as well as lifting of heavy equipment can cause strains and sprains from improperly lifting loads, or from carrying loads that are either too large or too heavy.
- When manually moving materials, employees should seek help when a load is so bulky it cannot be properly grasped or lifted, when they cannot see around or over it, or when a load cannot be safely handled.
- Handheld power tools shall be used and maintained in accordance with the manufacturer's specifications, including with the correct shield, guard, or attachment recommended by the manufacturer.

6.3 Personnel Safety

- Do not climb over or under obstacles.
- Use the buddy system and line-of-sight, as necessary.
- Practice contamination prevention on- and off-site.
- Plan activities ahead of time.
- Apply immediate first aid to any and all cuts, scratches, and abrasions.
- Report all accidents, no matter how minor, immediately to the HSO.
- Be alert to your own and others' physical condition.
- Initiate a work/rest regime if ambient temperatures and protective clothing create a potential heat/cold stress situation.
- Do not proceed with work unless adequate light exists and appropriate supervision is present.

6.4 Confined Space Entry

No confined space entry by GTA personnel is planned as part of this project.

6.5 Operation of Heavy Equipment

Individuals not directly involved in work operations will be required to maintain a 20-foot distance so as not to interfere with heavy equipment.

6.6 Excavation Operations

The HSO will be present on-site during soil excavation and removal operations covered under this HASP and shall provide monitoring and health and safety support in order to ensure the adequacy of protective equipment and safety procedures used by GTA personnel.

During excavation, the following shall apply:

1. Subsurface utilities shall be identified prior to the start of excavating and avoided during the work.
2. Air monitoring of the excavation will be performed from outside the excavation by the HSO, by observing for visible dust or using a real time electronic dust monitor. Monitoring results will be noted in the Health and Safety (H&S) logbook at that time.
3. Personnel shall not be permitted to stand, work, or travel beneath loads handled by lifting or digging equipment.
4. If mobile equipment is operated around or adjacent to an excavation, a warning system shall be utilized. The warning system may consist of barricades, hand or mechanical signals, or stop logs.
5. Site personnel shall not enter excavations at any time, unless walls are properly sloped or reinforced.

6.7 Decontamination and Material Handling

One of the most important aspects of decontamination is the prevention of contamination, when present. This will minimize worker exposure and cross-contamination of materials. Procedures for contamination avoidance include:

Personnel

- Do not walk through areas of obvious or known contamination.
- Do not directly handle or touch contaminated materials.
- Make sure that there are no cuts or tears on PPE.
- Fasten all closures in suits, if used.
- Particular care should be taken to protect any skin injuries.
- Stay upwind of airborne contaminants.
- Do not carry cigarettes, cosmetics, gum etc., into contaminated areas.

Sampling/Monitoring

- When required by the HSO, cover instruments with clear plastic, leaving openings for sampling ports.
- Bag sampling containers prior to placement of sample material.

Heavy Equipment

- Care should be taken to limit the amount of contamination that comes in contact with the heavy equipment (backhoe bucket, tires, etc.).
- If contaminated tools are to be placed on non-contaminated equipment for transport to a decontamination area, plastic should be used to prevent cross-contamination.
- Dust control measures may be needed.

If necessary, a personnel decontamination area will be provided where surface contamination and outer protective equipment are removed (see *Appendix D)*.

If potentially contaminated materials are encountered, they will be handled in a manner to prevent additional contamination. Discarded materials, waste materials, or other objects shall be handled in such a way as to protect site workers and the public from exposure to site

contaminants, and preclude the potential for creating a sanitary hazard. Potentially contaminated materials (e.g., clothing, gloves, etc.) will be bagged or drummed, as necessary, labeled, and segregated for disposal. Uncontaminated materials shall be collected and bagged for appropriate disposal as normal domestic waste. Waste material will be disposed in accordance with applicable regulations and protocols.

6.8 Air Monitoring

The HSO is responsible for air monitoring at the Site, if necessary.

6.8.1 Real Time Monitoring

Environmental concerns on the Site are associated with impacted soils within AOC-1 and AOC-2. Therefore, observations for visible dust emissions will be performed for health and safety purposes. As needed, the dust monitoring will be supplemented using a real time electronic dust monitor (e.g., Casella Microdust Pro).

As an additional precaution, a Photoionization Detector (PID) or equivalent (e.g., Flame Ionization Detector [FID], HNu, Thermo OVM) will be used as necessary during field operations. The PID will be used to measure organic vapor concentrations during invasive site operations. The PID can be used to monitor ambient and breathing zone concentrations.

Air monitoring results shall be interpreted conservatively to be protective of worker health. If air monitoring is necessary, readings shall be taken upwind of the work area(s) to determine background concentrations at least twice a day (once in the morning and once in the afternoon). Measurements shall be obtained in the breathing zones of personnel as well as in the area of the source.

6.8.2 Action Levels

Table 2 (Section 5.3) summarizes the air monitoring requirements and the proposed initial levels of protection. Air monitoring action levels are presented in *Table 3 (Section 5.3)*. The HSO will use these action levels when determining the need to upgrade or downgrade the level of PPE. Additional action levels are provided in *Section 7.0*, Community Air Monitoring Plan.

6.8.3 Instrument Calibration

Monitoring equipment will be calibrated and checked for proper operation daily, before the start-up of any field activities requiring monitoring. Before initiating monitoring, background measurements will be obtained with each instrument upwind and away from potential site influences. Instrument calibration and background levels will be documented on daily air monitoring logs.

6.8.4 Personal Monitoring

Personal air monitoring is not currently planned as part of this project. If warranted based on site air monitoring results, personal air monitoring shall be conducted using established OSHA/NIOSH protocol. Air samples, including blanks, shall be submitted to an American Industrial Hygiene Association (AIHA) accredited laboratory for sample analysis.

6.9 Medical Surveillance

Contact with contaminated media during the activities outlined in *Section 3.0* is anticipated to be minimal. Therefore, medical surveillance of GTA personnel is not currently planned as part of this project.

Re-evaluation of the need for a medical examination of individual GTA personnel will be conducted by the HSO prior to site entry. Evaluation criteria will include the anticipated duration of activities on the site, the anticipated exposure risks, and the anticipated cumulative annual exposure rates of the individual. If necessary, a medical surveillance examination may be performed in accordance with 29 CFR 1910.120(f) prior to site entry. The medical examination may be provided at some time prior to or after the proposed remedial activities at the site, and may be performed annually and/or upon termination of hazardous waste site work. Additional medical testing may be recommended by the HSO in consultation with the consulting occupational physician, if an overt exposure incident occurs, or if other site conditions warrant further medical surveillance.

7.0 COMMUNITY AIR MONITORING PLAN

A Community Air Monitoring Plan (CAMP) will be implemented during the excavation of impacted soils from AOC-1 and AOC-2, during UST removal, during installation and sampling of monitoring wells, and during earthwork. The CAMP outlines air quality monitoring procedures to be followed to protect the downwind community (i.e., offsite receptors, including residents and workers) from potential airborne contaminant that may be associated with investigation or remedial activities. This CAMP is consistent with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (included as *Appendix I*).

All air monitoring data, meteorological data, and the locations of monitoring equipment will be recorded in the onsite files and will be available for NYSDEC, NYSDOH, and Westchester County Health Department review.

7.1 Volatile Organic Compound Monitoring

VOCs will be monitored at the downwind perimeter of the immediate work area or site perimeter on a continuous basis. The VOC monitoring component of the CAMP will occur during all intrusive activities. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using a Minirae 2000 PID or equivalent equipment that is appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at

least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or site perimeter exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or site perimeter persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level at the downwind perimeter of the work area or Site perimeter is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is more than 25 ppm above background at the downwind perimeter of the work area or site perimeter, activities must be halted until corrective measures are identified and implemented to reduce emissions as described above.

7.2 Particulate Monitoring

Air monitoring for particulates (i.e., dust) will be performed continuously during excavation or remedial activities using both air monitoring equipment and visual observations. Monitoring equipment capable of measuring particulate matter smaller than 10 microns (PM-10) and capable of integrating (averaging) over periods of 15 minutes or less, at a minimum, will be set up at one upwind (background) and one downwind location, at heights approximately 4 feet to 5 feet above land surface (i.e., the breathing zone). This equipment will log the 15-minute average concentrations for subsequent downloading and reporting. An audible alarm on the downwind particulate monitoring device will be set at 90 micrograms per cubic meter (µg/m3) above the background level (i.e., the upwind location). Upwind concentrations will be measured at the start of each workday and periodically throughout the day thereafter to establish background conditions.

The CAMP coordinator will record the wind direction and speed at least at least twice a day (once in the morning and once in the afternoon). Measurements shall be obtained in the breathing zones of personnel as well as in the area of the source. These readings will allow the CAMP coordinator to ensure that CAMP equipment is located appropriately based upon the wind direction. The particulate monitoring equipment will be calibrated at the start of each day and as necessary throughout the day.

The monitoring results will be compared to the following:

- If the downwind PM-10 particulate level is 100 µg/m3 greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques shall be employed. Work may continue with dust suppression techniques, provided that downwind PM-10 particulate levels do not exceed

150 µg/m3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 µg/m3 above the upwind level, work will be stopped. Dust suppression techniques shall be reevaluated and changes initiated to reduce particulate levels to less than 150 µg/m3 above background conditions and to prevent visible dust migration.

8.0 EMERGENCY PROCEDURES

8.1 Pre-Emergency Planning

Pre-emergency planning consists of this emergency response plan, assigning emergency functions to on-site personnel, training of personnel as necessary, and ensuring that emergency procedures and equipment are in place. Emergency telephone numbers, directions, and a route map to the nearest hospital are presented in *Section 1.1*.

8.2 Emergency Plan

This emergency plan will be reviewed by GTA personnel working at the site, prior to the start of work. This emergency plan will be available for use during site work.

Various individual site characteristics will determine preliminary actions taken in the event of an emergency. The HSO will inform personnel about the nature and duration of work expected on the Site, the types of contaminants, and the possible health or safety effects of emergencies involving these contaminants. The HSO shall make necessary arrangements to be prepared for emergencies.

The HSO shall implement the emergency plan whenever conditions at the Site warrant such action. The HSO will be responsible for coordination of the evacuation, emergency treatment, and emergency transport of GTA site personnel as necessary and notification of emergency response units and the appropriate management staff.

8.3 Evacuation

In the event of an emergency situation, such as fire, explosion, or significant release of toxic gases, the HSO will initiate evacuation procedures by directly contacting each GTA employee or sounding an alarm, such as an air horn or other appropriate device, for approximately 10 seconds. All personnel will evacuate to a predetermined location. The location shall be upwind of the Site, if possible. For efficient and safe site evacuation and assessment of the emergency situation, the HSO will have the authority to contact outside services as needed.

8.4 Emergency Medical Treatment and First Aid

In the event of a safety or health emergency at the Site, appropriate emergency measures will immediately be taken. The Project Manager will be immediately informed of any serious injuries. Following decontamination, if required, the injured person will be transported to the nearest medical facility, if necessary. Directions and a map of the route to a nearby hospital are provided in *Section 1.1.3*.

If an employee working in a contaminated area is injured, first-aid procedures should be followed. Depending on the severity of the injury, emergency medical response may be sought. Emergency telephone numbers are provided in *Section 1.1*.

If the injury to a worker is chemical in nature (e.g., overexposure), the following first-aid procedures will be followed.

- Eye Exposure – Wash the eyes immediately at the emergency eyewash station for at least 15 minutes, using large amounts of water and lifting the lower and upper lids occasionally to help flush the eye. Do not rub eyes or keep eyes tightly closed. Obtain medical attention immediately.
- Skin Exposure - Use copious amounts of soap and water to wash/rinse the affected area thoroughly, then provide appropriate medical attention. For reddened or blistered skin, consult a physician.
- Ingestion – Do not induce vomiting!! Call poison control center or seek medical help.
- Inhalation – Move the person to fresh air. If breathing has stopped, perform artificial respiration. Obtain medical attention as soon as possible.

8.5 Emergency Decontamination

If emergency first aid and/or medical treatment is required, normal decontamination procedures may need to be abbreviated or omitted. The site HSO or designee will accompany contaminated victims to the medical facility to advise on matters involving decontamination, when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment, or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed, a plastic barrier between the individual and clean surfaces should be used to help prevent contaminating the inside of ambulances and/or medical personnel. Outer garments are then removed at the medical facility. No attempt will be made to wash or rinse the victim, unless it is known that the individual has been contaminated with an extremely toxic or corrosive material, which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems or injuries, the normal decontamination procedures will be followed. Note that heat stroke requires prompt treatment to prevent irreversible damage or death. Protective clothing must be promptly removed. Less serious forms of heat stress also require prompt attention and removal of protective clothing immediately. Unless the victim is obviously contaminated, decontamination should be omitted or minimized and treatment would begin immediately.

8.6 Adverse Weather Conditions

In the event of adverse weather conditions, the HSO or designee will determine if work can continue without compromising the health and safety of GTA field personnel. Some of the factors to be considered prior to determining if work should continue are:

- Potential for heat/cold stress and related illnesses; and/or
- Treacherous weather-related working conditions (e.g., heavy rain, fog, high winds, lightning, storms, etc.).

Site activities will be limited to daylight hours (unless adequate artificial lighting is provided) and acceptable weather conditions.

9.0 PERSONAL PROTECTIVE EQUIPMENT

The level of protection used by field personnel will be enforced by the HSO. Levels of protection may be upgraded or downgraded at the discretion of the HSO. This decision shall be based on real-time air monitoring, site history data, and prior site experience. Any changes in the level of protection shall be recorded in the health and safety field logbook. Based on the site characterization conducted to date, minimal PPE is anticipated.

9.1 General Levels of Protection

The level of protection selected is based primarily on:

- The type, toxicity, and measured concentration of the chemical substance; and
- The potential or measured exposure to substances in the air, or other direct contact.

The equipment used to protect the body against contact with chemical hazards is divided into four categories (A-D), according to the degree of protection needed. Given the scope of the planned activities at the Site, it is expected that Level A and B protection will not be needed. Should ambient conditions reach levels of contamination that would require Level A or B protection, work activities will cease and the Site will be vacated until conditions are again suitable for Levels C and D.

9.2 Site Specific Levels of Protection

Table 2 (Section 5.3) lists a task-specific hazard assessment with proposed initial levels of protection and air monitoring requirements.

For activities where the potential for exposure to contaminants is expected to be low to medium, the level of protection has been designated as Level D. These activities may include site preparation, field screening, and utility trench work. Activities where there may be low to medium potential for exposure to the hands require Level D, plus nitrile gloves.

Level D and/or Modified Level D have been chosen for activities where there may be

incidental contact with fill materials during excavation. Modified Level D will consist of Level D, with Tyvek or polycoated Tyvek, as appropriate for the task, plus nitrile gloves and boot covers for any material handling.

TABLE 4
Levels of PPE

PPE Level	C	D**
Criteria for selection	When the types of airborne substances are known, the concentrations have been measured, and the criteria for using air-purifying respirators are met. Skin and eye exposure is unlikely.	Primarily a work uniform providing minimal protection. Not to be worn where respiratory or skin hazards are present.
Respiratory Protection	Full-face, air-purifying respirator equipped with organic vapor/HEPA cartridges.	No respiratory protection
Personal Protective Clothing	• Chemical protective suit (Polycoated Tyvek) • Gloves, inner (latex) and outer (nitrile) • Boots, steel toe • Boot covers • Hard hat • Hearing protection (as needed) • Two-way radio communication	• Latex and/or Nitrile Gloves** • Boots, steel toe • Safety vest • Hard hat • Safety glasses (as needed) • Hearing protection (as needed)

**** Level D may be modified to 'Modified D' by the addition of:**

- Tyvek or polycoated Tyvek
- Nitrile gloves
- Boot covers

9.3 Reassessment of Protection Program

The level of protection provided by PPE selection shall be upgraded if conditions change such that there is a possibility of overexposure to the present hazards.

Some indicators of the need for reassessment are:

- Change in job tasks during a work phase;
- Contaminants other than those previously identified are encountered;
- Change in ambient levels of contaminants; and
- Change of work scope, which affects the degree of contact with contaminants.

The HSO has the responsibility for air monitoring and deciding the appropriate level of protection based on air monitoring guidelines presented in *Section 6.8*. The HSO shall be consulted when information is limited or when clarification is required.

9.4 Other Safety Equipment

The following safety and first aid equipment shall be available in the support vehicle/area

for GTA field personnel:

- Fire extinguisher, rated at least 1A, 10BC;
- Standard Industrial First Aid Kit, fully stocked;
- Air horn or other alternative means of sounding alarm; and
- Field wash equipment.

10.0 TRAINING

10.1 General

Pursuant to 29 CFR 1910.120, hazardous waste site workers shall, at the time of job assignment, have received a minimum of 40 hours of initial health and safety training for hazardous waste site operations. GTA personnel who have not met the requirements for initial training or are not "current" in their training shall not be allowed to work during any site activities in which they may be exposed to environmental hazards. For a site worker to be considered "current" for training purposes, their date of last training (initial, refresher, or manager/supervisory) must be within the last twelve months.

Completion of an accredited Health and Safety Training Course for Hazardous Waste Operations or an approved equivalent will fulfill the requirements of this section. Where on-site training is necessary, the HSO will conduct the training.

10.2 Site Specific Training

Prior to commencement of field activities, GTA personnel assigned to the project will be provided training that will specifically address the activities, procedures, monitoring, and equipment for the site operations. It will include site and facility layout, hazards, and emergency services at the Site, and will highlight the provisions contained within this HASP. This training will also allow field workers to clarify anything they do not understand and to reinforce their responsibilities regarding safety and operations for their particular activity.

The site-specific training shall also provide information regarding potential health hazards specific to the site contaminants, the likelihood of exposure, and the precautionary measures (including PPE and air and medical monitoring procedures) to be implemented to protect against these hazards.

10.3 Additional Training

Additional training, if required for completion of field tasks during the project, will be identified and provided as the work progresses.

10.4 On-Site Safety Briefings

GTA personnel will be given periodic on-site health and safety briefings by the HSO or designee, as necessary, to assist site personnel in safely conducting their work activities. The

briefings will include information on new operations to be conducted, or changes in work practices or the site's environmental conditions. The briefings will also provide a forum to facilitate conformance with health and safety requirements and to identify H&S performance deficiencies noted during daily activities.

11.0 LOGS, REPORTS, AND RECORDKEEPING

11.1 HASP Field Change Request

The HASP Field Change Request form (*Appendix B*) is to be completed for initiating a change to the HASP. Project Manager approval is required. The original will be kept in the project file.

11.2 Medical and Training Records

The HSO must obtain and keep a log of GTA personnel meeting appropriate training and medical qualifications for the site work. The *Training Log* is located in *Appendix E*. A copy of the log will be kept in the project file. For GTA personnel, GTA's Human Resources Manager or designee will maintain medical records, as necessary, in accordance with 29 CFR 1910.1020.

11.3 Exposure Records

Any personal monitoring results, laboratory reports, calculations, and air sampling data sheets are part of an employee exposure record. These records will be kept in accordance with 29 CFR 1910.1020. For GTA employees, the originals will be sent to GTA's Human Resources Manager or designee.

11.4 Accident/Incident Report

In the event of an accident/incident, as soon as first aid and/or emergency response needs have been met, the following parties are to be contacted:

1. Health and Safety Manager
2. Project Manager

Written documentation for verbal reports is to be submitted within 24 hours by the HSO or designee. The *Accident/Incident Report* found in *Appendix F* is to be used for this purpose. All representatives that are contacted by telephone are to receive a copy of this Report. The originals will be submitted to GTA's Project Manager or designee for recordkeeping. Copies of the forms will be kept in the project file.

For reporting purposes, the term "accident" refers to fatalities, lost time injuries, spill or exposure to hazardous materials, fire, explosion, damage to property, or potential occurrence of the above.

Any information that is released from the health care provider and is not deemed confidential patient information is to be attached to the appropriate form. Any medical

information that is released by patient consent is to be filed in the individual's medical records and treated as confidential.

11.5 OSHA Form 300

An OSHA Form 300 (Log of Occupational Injuries and Illnesses) will be kept at the project site. OSHA Form 300 and associated guidance information are contained in *Appendix G*. All recordable injuries or illnesses will be recorded on this form. At the end of the project, the original will be sent to GTA's Human Resources Manager or designee for recordkeeping. The *Accident/Incident Report (Appendix F)* meets the requirements of the OSHA Form 301 (Supplemental Record), which must be maintained with the OSHA Form 300 for all recordable injuries or illnesses.

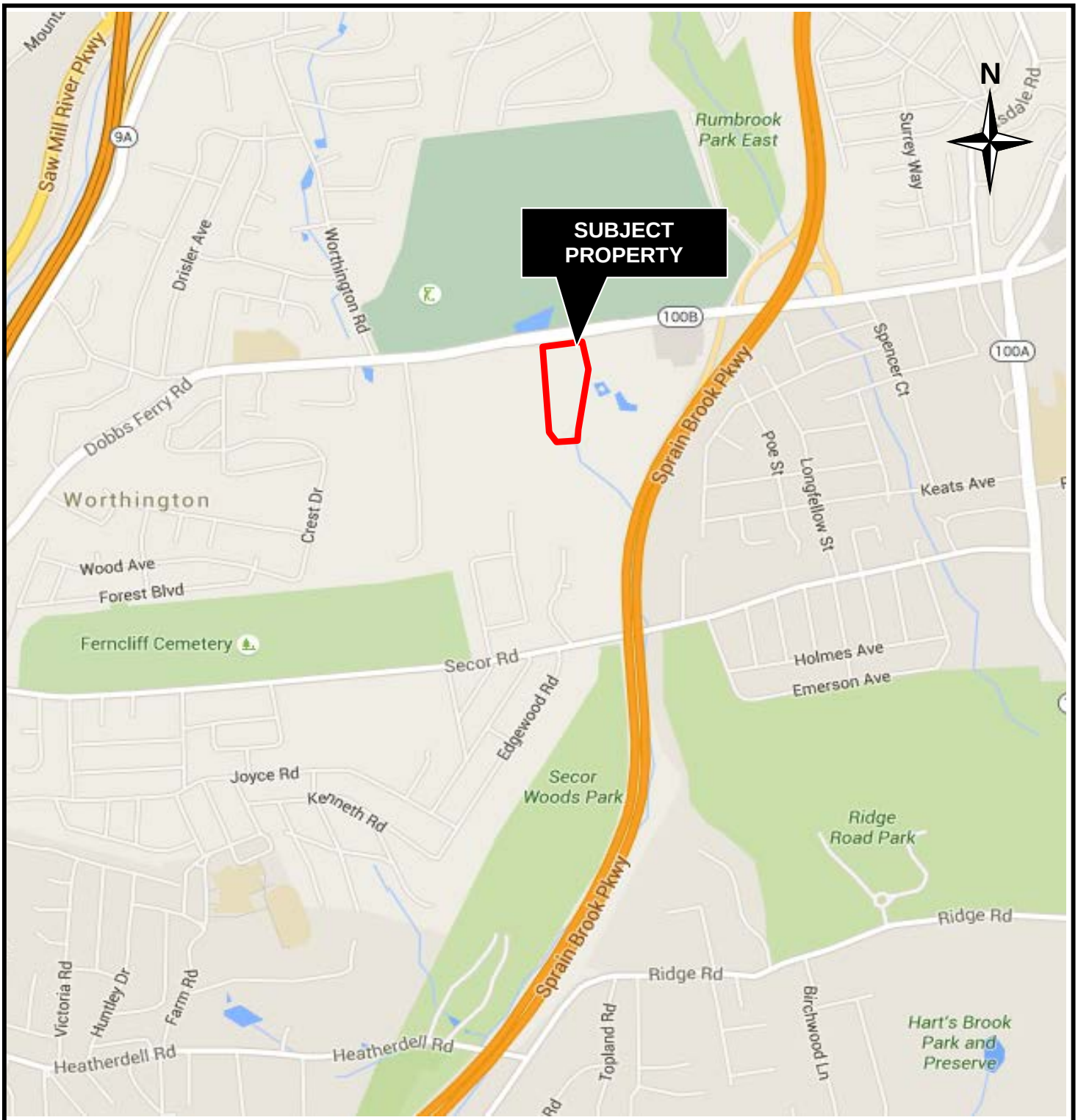
11.6 On-Site Health and Safety Field Log Books

The HSO or designee will maintain an on-site health and safety log book in which daily site conditions, activities, meetings, personnel, and significant events will be recorded. Calibration records and personnel monitoring results, if available, will also be recorded in the field log book. The original log book will be kept in the project file.

Whenever personnel monitoring is conducted on-site, the monitoring results will be noted in the field log book. These will become part of the exposure records file and will be maintained by the Human Resources Manager or designee.

******* END OF PLAN *******

APPENDIX A
FIGURES



Note: site boundary is approximate.

FIGURE 1: SITE LOCATION MAP

CSH Greenburgh Site
715 Dobbs Ferry Road
Town of Greenburgh
Westchester County, New York

14 Worlds Fair Drive, Suite B
Somerset, New Jersey 08873
(732) 271-9301
fax (732) 271-9306

GTA ENGINEERING SERVICES OF NY, PC

SOURCE: GOOGLE MAPS

SCALE: NA	DATE: JAN 2016	PROJECT #: 34160102

APPENDIX B
FIELD CHANGE REQUEST FORM

Health and Safety Plan
Field Change Request Form

Site Name:_____ **Project No.**_____

HASP Date:_____ Section:_____ Page(s):_____

Re: ☐ Change to existing HASP

☐ Addition to existing HASP

☐ Other: _____

Anticipated Revision Date:_____

Proposed Change: _____

_____

_____

Reason for Proposed Change:

☐ Disposition of Deficiency

☐ Change in Regulatory or Other Requirements

☐ Operational Experience

☐ Other: _____

Exhibits Attached: ☐ No ☐ Yes (describe) _____

_____

GTA Approvals: Project Manager: _____ Date:_____

H&S Manager: _____ Date:_____

Distribution After Approval:

☐ On-site copy Others: ☐ _____

☐ Client ☐ _____

☐ Project Files ☐ _____

Prepared By: _____ Date: _____

Title: _____

APPENDIX C
EXCLUSION ZONE ENTRY/EXIT LOG

Health and Safety Plan
Exclusion Zone Entry/Exit Log

Site Name:___________________________________ **Project No.**__________________

Date	Name	Company	Time	
			In	Out

APPENDIX D
DECONTAMINATION PROCEDURES

Health and Safety Plan
Decontamination Procedures

Personnel and equipment that enter an Exclusion Zone (i.e., personnel, excavators, monitoring equipment, field sample collection equipment, etc.) may require decontamination prior to exit. Decontamination will be supervised by the HSO. The decontamination supplies and equipment will be maintained by the HSO. The decontamination procedure assumes the contaminating substances soils containing heavy metals and PAHs. The decontamination procedure will be modified if the type of contaminating substance or its hazard potential is altered.

The information provided below is general in nature and does not include all of the steps needed for proper decontamination. The HSO is encouraged to consult other resources for development of a decontamination plan based on the type of work to be completed and the specific contaminants anticipated to be encountered. Other resources for decontamination procedures include, but are not limited to:

OSHA Decontamination Training: https://www.osha.gov/SLTC/hazardouswaste/training/decon.html

EPA Field Equipment Cleaning and Decontamination: https://www.epa.gov/sites/production/files/2016-01/documents/field_equipment_cleaning_and_decontamination205_af.r3.pdf

Contact Minimization

The first step in decontamination is to use Standard Operating Procedures to minimize contact with waste and thus the potential for contamination. These include:

- Use work practices that minimize contact with hazardous substances (e.g., do not walk through areas of obvious contamination, do not directly touch potentially hazardous substances).
- Protect monitoring and sampling instruments by bagging. Make openings in the bags for sample ports and sensors that must contact site materials.
- Wear disposable outer garments and use disposable equipment where appropriate.
- Cover equipment and tools with a strippable coating which can be removed during decontamination.
- Encase the source of contaminants, e.g., with plastic sheeting or overpacks.

All personnel will be trained in the Standard Operating Procedures for minimizing contact, and these procedures will be enforced throughout site operations.

Personnel Decontamination

A dedicated personnel decontamination area will be established. Decontamination procedures will be completed in an organized process by which levels of contamination are reduced. The decontamination process will consist of a series of procedures performed in a specific sequence. For example, outer, more heavily contaminated items (e.g., outer boots and gloves) will be decontaminated and removed first, followed by decontamination and removal of inner, less contaminated items (e.g., jackets and pants). Each procedure will be performed at a separate station in order to prevent cross contamination. Stations will be separated physically to prevent cross contamination and will be arranged in order of decreasing contamination, preferably in a straight line.

As an initial step, gross contamination will be removed by physical means involving dislodging/displacement, rinsing, wiping off, and evaporation. Physical methods involving high pressure and/or heat should be used only as necessary and with caution since they can spread contamination and cause burns. PPE removed during the initial decontamination stage, and other materials generated, will be containerized for proper off-site disposal.

Following decontamination and removal of PPE, field personnel will wash hands, face, and other exposed skin with soap and water. Shower and shampoo as soon as possible at the end of the work day. Launder non-disposable clothing prior to reuse, separately from other laundry items.

Typical decontamination stations for Personnel are described below:

Station 1:	Segregated Equipment Drop	1. Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross-contamination.
Station 2:	Boot Cover and Glove Wash	2. Scrub outer boot covers and gloves with decon solution or detergent and water then rinse.
Station 3:	Tape Removal	4. Remove tape around boots and gloves and deposit in container with plastic liner.
Station 4:	Boot Cover Removal	5. Remove boot covers and deposit in container with plastic liner.
Station 5:	Outer Glove Removal	6. Remove outer gloves and deposit in container with plastic liner.
Station 7:	Suit and Boot Wash	7. Wash splash suit, gloves, and safety boots. Scrub with long-handle scrub brush and decon solution. Rinse off decon solution water. Repeat as many times as necessary.
Station 8:	Canister or Mask Change	9. If worker leaves exclusion zone to change canister (or mask), this is the last step in the decontamination procedure. Worker's canister is exchanged. new outer gloves and boot covers donned, and joints taped. Worker returns to duty.
Station 9:	Safety Boot Removal	10. Remove safety boots and deposit in container with plastic liner.
Station 10:	Splash Suit Removal	11. With assistance of helper, remove splash suit. Deposit in container with plastic liner.
Station 11:	Inner Glove Wash	12. Wash inner gloves with decon solution then rinse.
Station 12:	Face Piece Removal	14. Remove face piece. Deposit in container with plastic liner. Avoid touching face with fingers.
Station 13:	Inner Glove Removal	15. Remove inner gloves and deposit in container with liner.

Equipment Decontamination

Equipment and vehicles used in the Exclusion Zone will be decontaminated before being allowed to leave the work area. A dedicated equipment decontamination area will be established.

Decontamination procedures will be completed in an organized process by which levels of contamination are reduced. The decontamination process will consist of a series of procedures performed in a specific sequence. As an initial step, gross contamination will be removed by physical means involving dislodging/displacement, wiping off, and evaporation. Materials removed during the initial decontamination stage will be containerized for proper off-site disposal.

Following initial decontamination, equipment will be cleaned, if necessary, using high pressure water with cleaning agents as necessary. Subsequent decontamination procedures will be dependent on the type of materials encountered.

Stations will be separated physically to prevent cross contamination and will be arranged in order of decreasing contamination, preferably in a straight line.

Wet-wipe coolers and instruments used on-site prior to leaving the site. Wet-wipe respirator exteriors whenever exiting work areas. Clean respirators using manufacturer-recommended procedures.

Waste Disposal

PPE that cannot be decontaminated (i.e., chemical resistant suits, gloves, boot covers, respirator cartridges, etc.) will be placed in plastic trash bags. If potentially contaminated soils are generated, they will be containerized using 55-gallon drums, roll-off boxes, or similar means, for characterization and proper disposal. If potentially contaminated water is generated, it will be containerized in 55-gallon drums, frac tanks, or similar means, for characterization and proper disposal.

The property owner will be notified for disposal of all wastes. Wastes will be disposed in accordance with local, state, and federal regulations.

NYSDOH and NYSDEC Approval

If procedures are used as outlined above, NYSDOH and NYSDEC approval of the decontamination plan is not required. For more complex work, consult with NYSDOH and NYSDEC to evaluate the need for a task-specific decontamination plan.

APPENDIX E
TRAINING LOG

Health and Safety Plan
Training Log

Site Name:_____ **Project No.**_____

Only those GTA personnel who have been trained in accordance with this HASP, as identified below, are permitted to perform activities described in this HASP. The dates for General Training, Site-Specific Training, and Medical Clearance (if applicable) should be entered in the appropriate columns.

Name	General Training (40-hour)	Site-Specific Training	Medical Clearance (if applicable)

APPENDIX F
ACCIDENT/INCIDENT REPORTS

Health and Safety Plan
Accident Report

Site Name:_____ **Project No.**_____

NOTE: This report must be completed by the injured employee or employee's supervisor and submitted to the Project Manager within 24 hours of any accident. Attach additional sheets if necessary. OSHA Form 301 may be used, if preferred.

Date of accident:_____ Time of accident:_____
Exact location where accident occurred (including street, city and state): _____

Name of injured employee:_____
Home address:_____
Home phone:_____ Date of Birth:_____
Age:_____ Sex: M F Date of Hire:_____
Employee's job title:_____
Dept. Regularly Employed:_____
Explain what happened (Include what the employee was doing at the time of the accident and how the accident occurred.): _____

Describe the injury and the specific part of the body affected (e.g., laceration, right hand, third finger, second joint):

Object or substance that directly injured employee:_____

Name and address of the physician (if medical attention was administered):_____

Is the employee expected to lose at least one full day of work?_____
Was the employee assigned to restricted duty? _____
Number of days and hours employee usually works per week:_____
List all PPE employee was wearing and all safety devices in use at the time of the accident:_____

Describe the preventive measures taken to avert a recurrence of this type of incident: _____

Date when measures were implemented and by whom:_____

Name of supervisor:_____
Date of this report:_____ Report prepared by:_____

I have read this report, and the contents as to how the accident/loss occurred are accurate to the best of my knowledge.

Signature:_____ Date: _____
Injured Employee

Health and Safety Plan
Incident Report

Site Name:_____ **Project No.**_____

NOTE: This report is to be completed when a near-miss occurs that could have potentially resulted in serious physical harm. Please submit to the Project Manager within 24 hours of an incident.

Use the space below to describe the incident (include what the employee was doing at the time the near-miss and how it occurred).

Prepared By: _____ _____ _____

Name Signature Date

APPENDIX G
OSHA FORM 300

OSHA's Form 300 (Rev. 01/2004)

Log of Work-Related Injuries and Illnesses

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 20__ __

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

You must record information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid. You must also record significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional. You must also record work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12. Feel free to use two lines for a single case if you need to. You must complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.

Establishment name ____________________

City ____________________ State ____________

Identify the person			Describe the case			Classify the case: CHECK ONLY ONE box for each case based on the most serious outcome for that case:		Remained at Work		Enter the number of days the injured or ill worker was:		(M) Check the "Injury" column or choose one type of illness:					
(A) Case no.	(B) Employee's name	(C) Job title (*e.g., Welder*)	(D) Date of injury or onset of illness	(E) Where the event occurred (*e.g., Loading dock north end*)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (*e.g., Second degree burns on right forearm from acetylene torch*)	(G) Death	(H) Days away from work	(I) Job transfer or restriction	(J) Other record-able cases	(K) Away from work	(L) On job transfer or restriction	(1) Injury	(2) Skin disorder	(3) Respiratory condition	(4) Poisoning	(5) Hearing loss	(6) All other illnesses
			/ month/day			☐	☐	☐	☐	___ days	___ days	☐	☐	☐	☐	☐	☐
			/ month/day			☐	☐	☐	☐	___ days	___ days	☐	☐	☐	☐	☐	☐
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					Page totals	___	___	___	___	___	___	___	___	___	___	___	___
												(1) Injury	(2) Skin disorder	(3) Respiratory condition	(4) Poisoning	(5) Hearing loss	(6) All other illnesses

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Public reporting burden for this collection of information is estimated to average 14 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

APPENDIX H
OSHA POSTER

Job Safety and Health

It's the law!

OSHA
Occupational Safety and Health Administration
U.S. Department of Labor

EMPLOYEES:

- You have the right to notify your employer or OSHA about workplace hazards. You may ask OSHA to keep your name confidential.
- You have the right to request an OSHA inspection if you believe that there are unsafe and unhealthful conditions in your workplace. You or your representative may participate in that inspection.
- You can file a complaint with OSHA within 30 days of retaliation or discrimination by your employer for making safety and health complaints or for exercising your rights under the *OSH Act*.
- You have the right to see OSHA citations issued to your employer. Your employer must post the citations at or near the place of the alleged violations.
- Your employer must correct workplace hazards by the date indicated on the citation and must certify that these hazards have been reduced or eliminated.
- You have the right to copies of your medical records and records of your exposures to toxic and harmful substances or conditions.
- Your employer must post this notice in your workplace.
- You must comply with all occupational safety and health standards issued under the *OSH Act* that apply to your own actions and conduct on the job.

EMPLOYERS:

- You must furnish your employees a place of employment free from recognized hazards.
- You must comply with the occupational safety and health standards issued under the *OSH Act*.

This free poster available from OSHA –
The Best Resource for Safety and Health

Free assistance in identifying and correcting hazards or complying with standards is available to employers, without citation or penalty, through OSHA-supported consultation programs in each state.

1-800-321-OSHA
www.osha.gov

OSHA 3165-12-06R

APPENDIX I
NYSDEC GENERIC COMMUNITY AIR MONITORING PLAN

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

APPENDIX H
SITE MANAGEMENT FORMS

Summary of Green Remediation Metrics for Site Management

Site Name: _____ Site Code: _____
Address: _____ City: _____
State: _____ Zip Code: _____ County: _____

Initial Report Period (Start Date of period covered by the Initial Report submittal)
Start Date: _____

Current Reporting Period
Reporting Period From: _____ To: _____

Contact Information
Preparer's Name: _____ Phone No.: _____
Preparer's Affiliation: _____

I. Energy Usage: Quantify the amount of energy used directly on-site and the portion of that derived from renewable energy sources.

	Current Reporting Period	**Total to Date**
Fuel Type 1 (e.g. natural gas (cf))		
Fuel Type 2 (e.g. fuel oil, propane (gals))		
Electricity (kWh)		
Of that Electric usage, provide quantity:		
Derived from renewable sources (e.g. solar, wind)		
Other energy sources (e.g. geothermal, solar thermal (Btu))		

Provide a description of all energy usage reduction programs for the site in the space provided on Page 3.

II. Solid Waste Generation: Quantify the management of solid waste generated on-site.

	Current Reporting Period (tons)	**Total to Date (tons)**
Total waste generated on-site		
OM&M generated waste		
Of that total amount, provide quantity:		
Transported off-site to landfills		
Transported off-site to other disposal facilities		
Transported off-site for recycling/reuse		
Reused on-site		

Provide a description of any implemented waste reduction programs for the site in the space provided on Page 3.

III. Transportation/Shipping: Quantify the distances travelled for delivery of supplies, shipping of laboratory samples, and the removal of waste.

	Current Reporting Period (miles)	**Total to Date (miles)**
Standby Engineer/Contractor		
Laboratory Courier/Delivery Service		
Waste Removal/Hauling		

Provide a description of all mileage reduction programs for the site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the site.

IV. Water Usage: Quantify the volume of water used on-site from various sources.

	Current Reporting Period (gallons)	**Total to Date (gallons)**
Total quantity of water used on-site		
Of that total amount, provide quantity:		
Public potable water supply usage		
Surface water usage		
On-site groundwater usage		
Collected or diverted storm water usage		

Provide a description of any implemented water consumption reduction programs for the site in the space provided on Page 3.

V. Land Use and Ecosystems: Quantify the amount of land and/or ecosystems disturbed and the area of land and/or ecosystems restored to a pre-development condition (i.e. Green Infrastructure).

	Current Reporting Period (acres)	**Total to Date (acres)**
Land disturbed		
Land restored		

Provide a description of any implemented land restoration/green infrastructure programs for the site in the space provided on Page 3.

Description of green remediation programs reported above (Attach additional sheets if needed)
Energy Usage:
Waste Generation:
Transportation/Shipping:
Water usage:
Land Use and Ecosystems:
Other:

CERTIFICATION BY CONTRACTOR
I, _____ (**Name**) do hereby certify that I am _____ (**Title**) of the Company/Corporation herein referenced and contractor for the work described in the foregoing application for payment. According to my knowledge and belief, all items and amounts shown on the face of this application for payment are correct, all work has been performed and/or materials supplied, the foregoing is a true and correct statement of the contract account up to and including that last day of the period covered by this application. _____ **Date** **Contractor**

Appendix I
O&M Manual

APPENDIX I
O&M MANUAL

Following active soil remediation, a sub-slab depressurization system (SSDS) was installed and consists of ventilation piping placed within sub-slab gravel, exhaust fans, and a vapor barrier placed above the gravel. Pipe and conduit penetrations of the floor slab were sealed. The vapor barrier was smoke-tested, and any leaks were repaired in accordance with the manufacturer's instructions. During initial startup, the vent risers and sub-slab differential pressures were tested using a micro-manometer. The pressure testing results are listed below. Monitoring locations are shown on the following page. The sub-slab monitoring locations consisted of small diameter holes drilled to obtain the readings, which were subsequently sealed using silicone non-shrinking caulk.

Testing Location	**Location ID**	**Vacuum ("WC)**
Riser with fan, in stairwell	AVR1	-1.09
Riser with fan, in stairwell	AVR2	-1.08
Riser without fan, access door near elevator	VR3	No fan
Riser with fan, access door in hallway	AVR4	-1.02
Riser without fan, in electrical closet	VR5	No fan
Sub-slab outside Room 109	1	-0.008
Sub-slab in closet of Room 104	2	-0.009
Sub-slab outside Room 112	3	-0.005
Sub-slab in Room 126	4	-0.007
Sub-slab in Room 122	5	-0.01
Sub-slab in kitchen	6	-0.009
Sub-slab in Office 1027	7	-0.015
Sub-slab in Construction Office	8	-0.015
Sub-slab in Lobby	9	-0.014
Sub-slab in electrical room	10	-0.006

On an annual basis, or upon a restart of the system, vacuum measurements should be taken at the vent risers using a micro-manometer and compared to the commissioning values shown above. If the vent riser vacuum measurements are more than 20% lower than the commissioning values, either the fan shall be replaced or sub-slab differential pressure measurements should be collected to evaluate the effectiveness of the system. The

measurements should be obtained by a Qualified Environmental Professional or Professional Engineer. The sub-slab measurements can be obtained by drilling small diameter holes in accessible areas of the floor slab and the use of a micro-manometer. The vent riser measurements can be taken at sampling ports installed on the vent riser on the first floor of the facility, accessible through access panels. The system may need to be altered until the sub-slab pressure differentials are at least -0.004 inches of water column. If replacement of the fan(s) is needed due to fan failure, then the new fan should be equivalent in performance with the existing fan. If replacement of the fan is needed due to performance (i.e., low vacuum measurements), then the Qualified Environmental Professional or other professional knowledgeable with vapor mitigation systems. If penetrations are created during modifications or testing, they should be sealed using silicone, non-shrinking caulk or an equivalent product.

The alarms shall also be checked to ensure they are working properly. This shall be performed on an annual basis or upon any restart of modification of the system.

If major modifications of the building are performed, including change in use or the changes in the HVAC system, a Professional Engineer shall review the proposed modifications and their potential impact on the SSDS, and develop a plan for alteration of the SSDS if required to maintain the effectiveness of the system. The plan will be dependent on the extent of building modifications, and may include vent riser vacuum checks, sub-slab differential pressure checks, or other methods to evaluate effectiveness of the system. The NYSDEC and NYSDOH shall be notified of any planned system shutdown, system failure, or plans to evaluate the system based on modifications described above.