

**ARDSLEY LLC
WESTCHESTER COUNTY
TOWN OF GREENBURGH, NEW YORK**

SITE MANAGEMENT PLAN

NYSDEC Site Number: C360146

Prepared for:

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and

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Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date

APRIL 2024

CERTIFICATION STATEMENT

I, MAREK OSTROWSKI, certify that I am currently a NYS registered professional engineer and 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) and Green Remediation (DER-31).

Marek Ostrowski P.E.
April 26, 2024 DATE



Marek Ostrowski
Signer Name: Marek Ostrowski
Signing Reason: I approved
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Signing Time: 2024-04-26
12:25:33(PDT)

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List of Acronyms

AOC	Area of Concern
ASP	Analytical Services Protocol
BC	Brown and Caldwell Associates
BCA	Brownfield Cleanup Agreement and Amendments
BCP	Brownfield Cleanup Program
BGS	Below Ground Surface
BSGV	Bioaccumulation Sediment Guidance Values
CAMP	Community Air Monitoring Plan
cis-DCE	cis-1,2-dichloroethene
COC	Certificate of Completion
CS ₂	Carbon Disulfide
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
EC	Engineering Control
ELAP	Environmental Laboratory Approval Program
EWP	Excavation Work Plan
FEMA	Federal Emergency Management Administration
FIRM	Flood Insurance Rate Map
FSP	Field Sampling Plan
HASP	Health and Safety Plan
IC	Institutional Control
ISCO	In-Situ Chemical Oxidation
Kh	Horizontal Hydraulic Conductivity
MEK	2-butanone
mg/kg	milligram per kilogram
MNA	Monitored Natural Attenuation
mV	millivolts
NAD	North American Datum
NAPL	Non-aqueous Phase Liquid
NTU	Nephelometric Turbidity Unit
NYS	New York State
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
ORP	Oxidation Reduction Potential
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PCE	Tetrachloroethene
P.E. or PE	Professional Engineer
PFAS	Per- and Polyfluoroalkyl Substances
PGW	Protection of Groundwater
PID	Photoionization Detector
PPH-C	Protection of Public Health on Commercially Zoned Properties

PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
QEP	Qualified Environmental Professional
R&D	Research and Development
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RSO	Remedial System Optimization
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SGV	Sediment Guidance Value
SMP	Site Management Plan
SSDS	Sub-slab Depressurization System
SVI	Soil Vapor Intrusion
SVOC	Semi-Volatile Organic Compound
SWQS	Surface Water Quality Standards
TAL	Target Analyte List
TCE	Trichloroethene
TCL	Target Compound List
TOC	Total Organic Carbon
USEPA	United States Environmental Protection Agency
µg/kg	microgram per kilogram
µg/L	microgram per liter
UST	Underground Storage Tank
VC	Vinyl Chloride
VOC	Volatile Organic Compounds

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:	Site No. C360146 Ardsley LLC 1 Lawrence Street Town of Greenburgh, Westchester County, New York
Institutional Controls:	All ICs listed in Section 3.2 are listed here. The property may only be used for commercial or industrial purposes; 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 this SMP; The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by NYSDOH or the Westchester County Health 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 components 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;

	<p>The potential for vapor intrusion must be evaluated for any buildings to be developed in the area within the Area of Soil Vapor Intrusion Concern noted on Figure 6, and any potential impacts that are identified must be monitoring or mitigated; and</p> <p>Vegetable gardens and farming on the Site as prohibited.</p>
Engineering Controls:	<ol style="list-style-type: none"> Cover system Fencing
Inspections:	Frequency
1. Cover inspection	Annually
2. Fence inspection	Annually
3. Overall Site inspection	Annually
Monitoring:	
1. Groundwater Monitoring Wells MW-2, MW-3, MW-4, MW-5R, MW-6, MW-7, MW-8, MW-9, and MW-10	Quarterly sampling for the first four quarters. Then twice yearly during seasonally high (typically early Spring) and low (typically early Fall) ground-water levels.
2. Groundwater Monitoring Wells MW-4, MW-5R, and MW-8	Quarterly post-ISCO for one year post-ISCO
3. Soil Vapor Intrusion Evaluation for New Buildings	As needed
Maintenance:	
1. Cover maintenance	As needed
2. Fence maintenance	As needed
Reporting:	
1. Interim Inspection and Groundwater Monitoring Letter Report	Annually, coinciding with the seasonally high (Spring) groundwater sampling event. The Fall inspection and monitoring event will be reported in the Periodic Review Report.

2. Periodic Review Report	Annually
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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 Ardsley LLC Site located at 1 Lawrence Street, Town of Greenburgh, New York (hereinafter referred to as the “Site”). See Figure 1 (Site Location Map). The Site is currently in the New York State (NYS) Brownfield Cleanup Program (BCP), Site No. C340146, which is administered by New York State Department of Environmental Conservation (NYSDEC).

Ardasley LLC entered into a Brownfield Cleanup Agreement (BCA) effective July 10, 2018 with the NYSDEC to remediate the site. An initial Amendment Application to the BCA to include Lots 2, 3, and 4 was denied by the DEC on Sept 27, 2019. The BCA was amended on May 26, 2020 to update tax credit status (Gen 2 to Gen 3); and again on May 4, 2022 clarifying the BCP Site is in the Town of Greenburgh (not Ardsley). BCA amendment No. 3 was executed on July 7, 2022 to refine the Site boundary to exclude the Saw Mill River and land below the high water line. An additional amendment (No. 4) was submitted on July 24, 2023 to add the Purchaser of the property, Lawrence Ardsley LLC to the BCA. A figure showing the location and boundaries of the Site is provided in Figure 2 (Site Plan). Figure 2 shows the Site prior to completion of remediation (i.e., fence line incomplete) and will be updated upon completion. The boundaries of the site are more fully described in the metes and bounds site description that is part of the Environmental Easement and the Amendment to Environmental Easement (collectively, Environmental Easement) provided in Appendix D.

After completion of the remedial work, some contamination was left at the 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. The 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 SMP has been approved by the NYSDEC, and compliance with this SMP 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, 6 NYCRR Part 375 and the BCA (Index # C3460146-03-15, Site #C3460146) 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 Brown and Caldwell Associates (BC), on behalf of EnviroAnalytics Group LLC, Ardsley LLC, and Lawrence Ardsley LLC, 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 and Alterations

Revisions and alterations to this plan will be proposed in writing to the NYSDEC’s project manager. The NYSDEC can also make changes to the SMP or request revisions from the remedial party. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, post-remedial removal of contaminated sediment or soil, or other significant change to the site conditions. All approved alterations must conform with Article 145 Section 7209 of the Education Law regarding the application of professional seals and alterations. For example, any changes to as-built drawings must be stamped by a New York State Professional Engineer. In accordance with the Environmental Easement for the site, the NYSDEC project manager 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:

1. 60-day advance notice of any proposed changes in Site use that are required under the terms of the BCA, 6 NYCRR Part 375 and/or Environmental Conservation Law.
2. 7-day advance notice of any field activity associated with the remedial program.
3. 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan (EWP). If the ground-intrusive activity qualifies as a change of use as defined in 6 NYCRR Part 375, the above mentioned 60-day advance notice is also required.
4. 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.
5. Notice within 48 hours of any non-routine maintenance activities.
6. 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.
7. 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:

8. 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 BCA, and all approved work plans and reports, including this SMP.
9. Within 15 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 notifications. 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*

<u>Name</u>	<u>Contact Information</u>	<u>Required Notification**</u>
NYSDEC Project Manager – Ryan Richard	(845) 633-5463 Ryan.Richard@nysdec.ny.gov	All Notifications
NYSDEC Project Manager’s Supervisor – David Pollock	(845) 256-3138 David.pollock@dec.ny.gov	All Notifications
NYSDEC Site Control – Kelly Lewandowski	(518) 402-9553 Kelly.lewandowski@dec.ny.gov	Notifications 1 and 8
NYSDOH Project Manager – Kristin Kulow	(607) 432-3911 Kristin.kulow@health.ny.gov	Notifications 4, 6, and 7

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

** Note: Numbers in this column reference the numbered bullets in the notification list in this section.

2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

This section provides a description of the location and layout of the site, identifies all areas of remaining contamination, presents remedial activities performed on-site, Site history, and the nature and extent of contamination before and after the remedy.

2.1 Site Location and Description

The Site, part of the former Akzo Nobel (Akzo) property, is located at 1 Lawrence Street in the Town of Greenburgh, Westchester County, New York and is identified as parcel 8.370-265-1 on the Westchester County Tax Map. The Site excludes the Saw Mill River below the ordinary high water mark (See Figure 2). The Site is an approximately 6.00-acre area and is bounded by additional parcels of the Akzo property (8.370-265-3 and 8.370-265-4) to the north, Lawrence Street to the south, an additional parcel of the Akzo property (8.370-265-2) and Saw Mill River Road to the east, and the South County Trailway (maintained by Westchester County Parks) to the west (see Figure 2 – Site Layout Map). The boundaries of the Site are more fully described in Appendix D –Environmental Easement. The owner of the Site parcel at the time of issuance of this SMP are:

Ardley LLC
1515 Des Peres Rd., Suite 300
St. Louis, MO 63131

Lawrence Ardsley LLC
150 Old Mamaroneck Rd.
White Plains, NY 10605

A metes and bounds description of the Site is contained in the Environmental Easement and Survey contained in Appendix D.

2.2 Physical Setting

2.2.1 Land Use

The Site, which was once the Akzo Nobel Pilot Plant property, contained seven freestanding structures and guard house that were demolished in 2008-2009. The property is currently unoccupied and portions of the Site are covered by a 12-inch Site cover meeting the soil cleanup objectives for the Site set forth in 6 NYCRR Part 375-6.7(d). The Site is zoned GI – General Industrial (Town of Greenburgh Zoning Map 11/14/2018). The Saw

Mill River flows from north to south through the southeastern portion of the Site. Access to the Site is restricted by chain link fencing.

The properties adjoining the Site and in the neighborhood surrounding the Site are used for a variety of purposes. The properties immediately south of the Site (south of Lawrence Street) include commercial and undeveloped properties; the properties immediately north of the Site (north of Saw Mill River Rd) include commercial and residential properties; the properties immediately east of the Site (east of Saw Mill River Rd) include commercial and industrial properties followed by the New York State Thruway; and the properties to the west of the Site include the aforementioned South County Trailway, followed by undeveloped properties and the Saw Mill River Parkway.

2.2.2 Geology

A geologic cross section is shown in Figure 3. Site specific boring logs are provided in Appendix E.

Unconsolidated overburden deposits overlie bedrock at the Site. The type and configuration of the deposits are illustrated in Figure 3. During the remedial investigations, borings were advanced in overburden materials to a maximum depth of 25 feet below ground surface (BGS). The bedrock surface was not encountered. The overburden materials are described below.

Alluvial Deposits

Alluvial deposits comprised primarily of sand with lesser components of silt and clay are present throughout the study area. The alluvial deposits extend to the terminus of all the deepest borings (25 feet BGS). Small amounts of gravel are present at locations nearer the river, although the near-river deposits remain primarily sand. Additionally, a locally present “peat” layer containing greater amounts of organics is present in borings from the center of the Site (BC-FE-SB-1 through BC-FE-SB-3, BC-SB-2 through BC-SB-4, BC-SB-6, and BC-SB-7) at depths ranging from approximately 9.5 to 15 feet bgs. The layer consists of a mixture of silt, sand, and gravel, with varying amounts of brown to black peat and occasional wood fragments and roots. The thickness of the “peat” layer ranges from 2 to 4 feet.

Fill

The uppermost unconsolidated material underlying the Site is anthropogenic fill composed of various reworked materials including sand, gravel, and demolition debris (e.g., brick and concrete). Finer grained material (silt and clay), where present in the fill, is typically a minor component. The shallow fill varies in thickness across the Site ranging from approximately 5 to 10 feet.

2.2.3 Hydrogeology

This section discusses the hydrogeology during the remedial investigation. Changes to groundwater elevation and flow may have occurred as a result of remedial action. Figures and tables will be updated as more data becomes available.

A groundwater contour map is shown in Figure 4. Groundwater elevation data is provided in Table 7. Groundwater monitoring well construction logs are provided in Appendix E.

Groundwater is encountered predominantly in the fill, generally in depth from approximately 4 to 10 feet BGS depending on surface elevation, as illustrated in the cross-section provided as Figure 3. At locations where the elevation of the top of the alluvium is higher (MW-4, MW-5, and MW-8), the water table is encountered in the alluvial deposits.

Horizontal hydraulic conductivity (Kh) values were derived from in-situ hydraulic conductivity testing (slug tests) conducted on the Site monitoring wells. Kh values range from 1.7×10^{-3} to 1.1×10^{-2} cm/sec with a geometric mean of 5.5×10^{-3} . The saturated materials adjacent to the screens of the monitoring wells are predominantly alluvial deposits consisting of sand with lesser amounts of silt and clay.

Continuous monitoring of water levels in the Saw Mill River and Site monitoring wells was conducted during the period from May 15 to May 23, 2019 to assess the degree of interaction between groundwater and surface water, evaluate the hydrogeologic characteristics and groundwater flow in the overburden deposits, and assess the potential for the river to serve as a discharge feature for Site groundwater. The resulting hydrographs are presented in Figure 3a. The river staff gauge was located upstream of the dam located adjacent to the southern portion of the Site. River levels below the dam (adjacent to MW-3) are approximately 1.5 feet lower than above the dam. Fluctuations in river level due to

rain events occurred during the week-long monitoring period. Groundwater levels in the monitoring wells nearest the river (MW-1, MW-3, MW-4, and MW-7) correlate closely with surface water fluctuations; however, groundwater fluctuations are relatively muted and lag behind surface water fluctuations. Monitoring wells farther from the river (MW-2 and MW-5) exhibit little or no response to river level fluctuations. The muted fluctuations exhibited in all wells indicate that conventional (single-reading) water level measurements obtained during synoptic rounds of monitoring are likely representative of general conditions in the time frame of the monitoring event.

The evaluation of groundwater flow is based on the understanding of the hydrogeology at the Site, as described above, and the water level data collected from the wells and staff gauges. As illustrated in Figure 4, groundwater flow is generally southeast across the Site toward the Saw Mill River. In the northern portion of the Site, groundwater flow is more easterly, with a more southerly flow in the southern portion of the Site. A 66-inch diameter trunk sewer line extends north-south through the Site. As shown on Figure 3a, despite fluctuations caused by precipitation, river water elevations remained below groundwater elevations throughout the monitoring period, indicating a persistent gradient toward the river.

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.

The property was initially developed by Stauffer Chemical Company (Stauffer) in the 1920s. Stauffer manufactured citric acid, potash, carbon disulfide and insoluble sulfur and a variety of biocides and pesticides at various times until chemical manufacturing at the facility ceased entirely in 1984. Research and development (R&D) operations began in the 1950s and continued after cessation of the manufacturing activities. Akzo Nobel acquired Stauffer in 1987 and initially continued Stauffer's R&D operations but eventually converted the R&D operations away from the Stauffer processes towards Akzo's products.

R&D operations continued at the Site until January 2006, at which time all Site operations ceased.

Site Investigation History

Sovereign Consulting, Inc. (Sovereign) of Cherry Hill, New Jersey conducted a Site investigation at the Site from October 2006 through June 2009. The objective of the Site investigation was to identify areas of concern (AOCs) and evaluate potential impacts to soil and groundwater quality at each AOC, as well as assess sediment and surface water quality in the adjacent Saw Mill Creek. The investigation identified and addressed 15 areas of investigation. The findings of the Sovereign Site investigation were presented in “Site Investigation Report for the Akzo Nobel Chemicals Inc. Pilot Plant, Ardsley, New York” (Sovereign, November 2009).

The Vertex Companies (Vertex), on behalf of an interim, prior property owner TDI Real Estate, Inc., mobilized to the Site in April 2014 to perform a Phase I Environmental Site Assessment. The Vertex activities were conducted to evaluate subsurface conditions with respect to the specific AOCs identified in the earlier Site investigation. The findings of the Vertex activities were presented in the “Phase I Environmental Site Assessment, Former Akzo Nobel Pilot Plant Facility, Saw Mill River Road and Lawrence Street, Ardsley, New York 10502”, (Vertex, August 2014).

Subsequent Site investigation activities, including the remedial investigation (RI) activities, were conducted by First Environment of Boonton, New Jersey and BC of Albany, New York. The findings of the RI were presented in the “Final Remedial Investigation Report, Ardsley, LLC (Former Akzo Nobel Pilot Plant Site), ID # C360146, Ardsley, New York”, BC, August 2021).

As show on the figures contained in Appendix L and described herein, the findings of the RI indicated the following. Please note at that all references to depths below ground surface are depths prior to remedial action.

Surface Soil

Concentrations of constituents in surface soil were detected above applicable 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 soil cleanup objectives (SCOs),

particularly for the protection of public health on commercially zoned properties (PPH-C) (Figure 7, 7A and 7B – Appendix L). The most prevalent exceedances of SCOs for PPH-C were for polycyclic aromatic hydrocarbons (PAHs) (34 of 56 sample locations). Many of the samples exceeding SCOs for PPH-C reported carcinogenic PAHs (benzo[a]pyrene and dibenz[a,h]anthracene). Carcinogenic PAHs have relatively low SCOs for PPH-C ranging from 0.56 to 1 milligram per kilogram (mg/kg). Metals, pesticides, and polychlorinated biphenyls (PCBs) had considerably fewer or no detections of constituents above SCOs for PPH-C in surface soil. Emerging contaminants perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were not detected in surface soil above their respective guidance values for PPH-C.

Subsurface Soil

Subsurface soil impacts were evaluated across the Site, and at four AOCs (Figures 2A, 8, 8A and 8B – Appendix L):

- Former Solvent Shed
- Former RCRA Shed
- Former Carbon Disulfide Underground Storage Tank (UST) Vault
- Former White House Building Vault

Figure 5a highlights all locations from the RI and preliminary Site investigation that have an exceedance of an Unrestricted SCO. Figure 5b highlights all locations from the RI and preliminary Site investigation that have an exceedance of an SCO for PPH-C. RI Figures 8 and 8a (Appendix L) show the RI locations and specific analytes that exceed an SCO for PPH-C or for protection of groundwater (PGW).

PCBs were delineated at the former RCRA Shed. Given the low solubility of PCBs coupled with their strong chemical affinity for soil and natural organic carbon, the probability of these substances impacting groundwater quality is very low. This is evident by PCBs not being detected in Site groundwater.

Lead was delineated at the former Carbon Disulfide UST Vault. Lead has been detected above Class GA groundwater quality criteria in groundwater immediately

downgradient at MW-6, but concentrations were below Class GA criteria at MW-9 and MW-3, indicating groundwater quality is not significantly impacted.

Volatile organic compounds (VOCs) were delineated at the former White House Building Vault.

The subsurface soils in the former Solvent Shed area have been defined as a tetrachloroethene (PCE) source area for groundwater impacts. PCE concentrations in 69 of the 120 soil samples collected in this area exceeded the SCO for PGW, the most stringent of the three SCOs. The majority of these exceedances were in the 4 to 13 ft. BGS interval, with only one exceedance below 14 ft. BGS (BC-FE-SB-2). A “peat” layer containing variable amounts of organics is present in the area of the former Solvent Shed, at depths ranging from approximately 9.5 to 15 feet bgs and at thicknesses ranging from 2 to 4 feet. This “peat” layer appears to be controlling the vertical limit of the PCE impacts. The horizontal limits of the PCE impacts have been determined, based on samples collected that contained PCE concentrations below the SCO for PGW.

Emerging contaminants PFOS and PFOA were not detected in subsurface soil above their respective guidance values for PPH-C.

Groundwater

Figure 6a highlights all locations from the RI and preliminary Site investigation that have an exceedance of Class GA criteria. VOCs detected in samples from monitoring wells at concentrations greater than the Class GA criteria were carbon disulfide and PCE, along with the PCE degradation products trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), and vinyl chloride (VC). The presence of cis-DCE and VC at monitoring wells downgradient from the PCE source area (MW-3, MW-4, and MW-10) is evidence that PCE is degrading through natural process because neither compound was used during historical Site operations.

PFOA was measured in samples from wells MW-2 (13 ng/L), MW-3 (30.3 ng/L) and MW-4 (17.2 ng/L) at concentrations above the New York drinking water standard of 10 ng/L.

Soil Vapor

No structures exist on the Site. Soil vapor sampling was conducted at locations SV-1 and SV-2, in the southern portion of the Site. The VOCs reported in one or both of the soil vapor samples consist of 1,3-butadiene, 2-butanone (MEK), acetone, benzene, carbon disulfide, carbon tetrachloride and chloroform. Some of these VOCs (e.g., MEK, carbon tetrachloride) were not detected in RI samples of soil or groundwater and may be attributable to one or more unidentified off-Site source(s). To conservatively estimate the indoor air concentrations that might result if the soil vapor did migrate into a future on-Site building, a generic attenuation factor of 0.031 was applied to the soil vapor concentrations prior to the comparison with USEPA guidance values.

Applying this factor, only the 1,3-butadiene concentration from sample SV-1 (0.450 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]), slightly exceeded the USEPA Regional Screening Level - Composite Worker Air, Carcinogenic (0.41 $\mu\text{g}/\text{m}^3$). This exceedance is less than 10 percent greater than the screening level and is not considered to pose a significant threat to human health nor the environment.

Surface Water and Sediment

As defined in the Environmental Easement, the Site excludes the Saw Mill River below the ordinary high water mark. Surface water and sediment samples are considered to be off-Site samples.

Concentrations of constituents detected in the surface water samples were compared with New York Surface Water Quality Standards (SWQS) for the protection of human health. No VOCs, semi-VOCs (SVOCs), pesticides or PCBs were detected in any of the three samples. Of the inorganic constituents, only iron exceeded the human health water quality standard. Concentrations of constituents detected in the surface water samples were also compared with SWQS for the protection of aquatic organisms. Detected concentrations of aluminum and iron exceeded the SWQS for protection of aquatic life (chronic values). Concentrations of these constituents were slightly higher at the two downstream locations than at the upstream location. Lead was detected in all three samples,

¹ Detected concentrations were diluted by multiplying concentrations by 0.03.

at concentrations well below the SWQS that were similar in the upstream and downstream sampling locations.

Sediment samples were compared to NYSDEC Sediment Guidance Values (SGVs). Most sediment concentrations adjacent to the Site were similar to or lower than concentrations upstream of the Site. The VOCs MEK, acetone, carbon disulfide, cis-DCE, and the SVOC naphthalene were reported in downstream sample at part-per-billion concentrations that were somewhat greater than in upstream sample. The SVOC butyl benzyl phthalate was detected downstream at 42 micrograms per kilogram ($\mu\text{g}/\text{kg}$), compared to 33J $\mu\text{g}/\text{kg}$ upstream. Ten of the 23 metal analytes (arsenic, cadmium, chromium, copper, iron, lead, potassium, thallium, vanadium, mercury) were reported at greater concentrations in downstream samples than in the upstream samples. Given the variability of the sampling and analysis process demonstrated by comparison of upstream sample and its duplicate and the likely heterogeneity of the river sediments, the differences between the upstream and downstream sample results are not necessarily indicative of Site impacts.

Findings from the RI activities provide sufficient data exists to support the conclusion that surface water and sediment in the Saw Mill River are not being adversely impacted by constituents of concern associated with the Site.

Remedial History

Following the completion of the RI a Remedial Action Work Plan (RAWP) was prepared (Alternatives Analysis and Remedial Action Work Plan, Ardsley, LLC (Former Akzo Nobel Pilot Plant Site), ID # C360146, Ardsley, New York”, BC, June 2022). The selected remedial action document in the RAWP and Decision Document (NYSDEC, June 2022) includes the placement of 12-inches of imported cover material (meeting NYSDEC DER-10 Appendix 5 – Allowable Constituent Levels for Imported Fill or Soil for commercial use), in-situ treatment, and engineering/institutional controls to immediately render the unutilized Site suitable for commercial usage (refer to Figure 3-1 of the RAWP). The selected remedy implements a program that provides for the soonest commercial use of the property consistent with the goals of the owner, community, and BCP. In-situ chemical oxidation (ISCO) will permanently address the source of PCE contamination in

groundwater and the RI demonstrates that monitored natural attenuation (MNA) will address residual PCE in groundwater (if any). Potential exposure to residual VOCs through the soil vapor intrusion (SVI) pathway in future buildings will be less likely after ISCO and can be eliminated through ordinary technologies such as sub-slab ventilation or passive barriers, if shown necessary in a localized on-Site area.

Implementation of the remedial action began with mobilization to the Site for clearing and grubbing in July 2022. ISCO mixing activities occurred in October 2022 installation of cover material and fencing were completed in Fall 2023. The Final Engineering Report for the Site will document the completed remedial activities.

2.4 Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site as listed in the Decision Document dated June 2022 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

The preliminary Site and remedial investigations conducted from 2006 through 2021 collected soil samples for analysis from borings at a total of approximately 219 locations across the Site (Figure 2). Table 2a and Figure 5a summarize the results and locations of all soil samples collected that exceed the Unrestricted Use SCOs at the Site after completion of remedial action. Table 2b and Figure 5b summarize the results of all soil samples collected that exceed the Commercial Use SCOs at the Site after completion of remedial action.

Unrestricted Use of the Site is not being considered. As shown on Figure 5a, there are numerous locations where soil concentrations of exceed the SCOs for Unrestricted Use for one or more contaminants. For each contaminant, the SCO for Unrestricted Use reflects the lowest of the SCOs for protection of Human Health Residential Use, PGW, and Protection of Ecological Resources. As shown on Table 2a, the most common exceedances

are for chlorinated VOCs (primarily PCE and degradation products²), benzene, toluene, ethylbenzene, xylene, PAHs, DDT, DDD, DDE, Dieldrin, and various metals.

The Site is intended for Commercial Use. Figure 5b shows locations where soil concentrations at any depth exceed the SCOs for Protection of Public Health – Commercial Use. Exceedances of Commercial Use SCOs at the Site are discussed below. As part of the remedial action, in-situ chemical oxidation (ISCO) of subsurface soil in the area of the Former Solvent Shed was utilized to treat PCE concentrations. Post-remedial soil samples were not collected because performance was based on groundwater concentrations. As such, the discussion of subsurface soils exceeding Commercial Use SCOs refers to the pre-remedial soil concentrations in the area of the Former Solvent Shed.

The majority of the Site was covered with an orange demarcation layer overlain by 12 inches of imported fill material meeting 6 NYCRR Part 375-6.7(d) (the lower of the SCOs for Commercial Use and Protection of Groundwater). The exception to installation of Site cover are the paved area in the southwest corner of the Site and areas along with eastern boundary within the 100-year flood plain (fencing installed) The Site cover along with fencing along the Saw Mill River, will restrict access to the remaining contamination discussed below.

Management of the soil below the demarcation layer can be controlled through the Excavation Work Plan (Appendix B).

Surface Soil

For purposes of this discussion, surface soils are considered to be 0- to 2-feet bgs prior to remedial action (i.e., installation of 12-inch cover).

SVOCs

Concentrations of one or more SVOCs exceed the Commercial Use SCO at 34 locations. All of the SVOCs exceedances are PAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz[a,h]anthracene, indeno[1,2,3-cd]pyrene and pyrene). The carcinogenic PAHs benzo[a]pyrene and dibenz[a,h]anthracene have relatively low SCOs for PPH-C: 0.56 and 1 mg/kg respectively.

² Concentrations of chlorinated VOCs in the area of the former Solvent Shed were likely reduced by ISCO.

Metals

Concentrations of one or more metals exceed the Commercial Use SCO at ten (10) locations. The metals that exceeded the SCO for PPH-C are arsenic, barium, copper, and mercury.

PCBs

PCBs, specifically Aroclor 1254, were measured at concentrations of 3.0 to 8.2 mg/kg exceeding the applicable Commercial Use SCO at two locations (FE-SB-6 and SS-24).

Subsurface Soil

Former Solvent Shed

The Former Solvent Shed is centrally located within the Site. Refer to Figure 2A of Appendix L for location the AOC.

One hundred twenty (120) soil samples (including field duplicates) were collected from 20 locations in the Former Solvent Shed area. The samples were analyzed for VOCs only. In 69 of the 120 samples (57.5% of samples), PCE concentrations exceeded the SCO for PGW. The majority of these exceedances were in the 4 to 13 ft. BGS interval, with only one sample below 14 ft. BGS (BC-FE-SB-2) exceeding the SCO for PGW.

Other VOCs detected above applicable SCOs are 1,2-dichloroethane, acetone, benzene, chloroform, ethylbenzene, and trichloroethene.

Former RCRA Shed

Soil samples from the Former RCRA Shed were analyzed for PCBs. The sample collected from 1.5 to 2 ft. BGS from FE-SB-6 (3 mg/kg) had an exceedance of the Commercial Use SCO (1 mg/kg).

Other Subsurface Soil Analytical Results

Subsurface soil samples were also collected in locations not related to the two historical areas discussed above.

VOCs

The only VOC detected at concentrations greater than applicable SCOs was acetone. The reported concentrations of this constituent at locations MW-5, MW-7, SS-12 (off-Site), and SS-14 slightly exceed the SCO for PGW.

Metals

Concentrations of arsenic were measured above the Commercial Use SCOs at one of the above sample locations (SS-15). Concentrations of one or more of the following metals exceeded their SCOs for PGW at eight sample locations: arsenic, chromium, and mercury. Of these constituents, chromium was most often measured at concentrations above its applicable SCO.

2.5.2 Sediment/Surface Water

As defined in the Environmental Easement, the Site excludes the Saw Mill River below the ordinary high water mark. Surface water and sediment samples are considered to be off-Site samples. No remedial action is being taken with respect to the Saw Mill River. Refer to Section 2.3 of the SMP for a discussion on remaining contamination associated with the Saw Mill River.

2.5.3 Groundwater

Prior to the RI Groundwater samples were collected from temporary sample points during the remedial investigations conducted in 2014. Groundwater samples were also collected in 2009 from conventional monitoring wells MW-1, MW-2 and MW-3, and in 2014 from MW-1 and MW-2. Three groundwater sampling events were conducted on select monitoring wells during the RI, during the following periods:

- August 16, 2018
- May 13 – 14, 2019
- March 5, 2020

Table 6a and Figure 6a summarize the results of all samples of groundwater that exceed the SCGs prior to completion of the remedial action. For constituents other than VOCs, it is anticipated that remaining groundwater contamination reflects pre-remediation groundwater quality. As described in Section 4.4.3, post-remediation groundwater monitoring will be performed to evaluate the effectiveness of the ISCO and to evaluate monitored natural attenuation (MNA) of remaining VOC residuals.

VOCs/SVOCs

The VOCs measured in samples from temporary sampling points and monitoring wells at concentrations greater than the Class GA criteria were carbon disulfide and PCE, along with the PCE degradation products TCE, cis-DCE, and VC. One or more of these constituents were detected at concentrations greater than the Class GA criteria in samples collected from temporary sampling points VES-1a, VES-10, MW-4, VES-13, MW-3, VES-11 and monitoring wells MW-2, MW-3, MW-4, MW-5, and MW-10.

The other VOCs and SVOCs that were measured in monitoring well samples at concentrations greater than their Class GA criteria are 1,2-dichloroethane, benzene, chlorobenzene, chloroform, 4-methylphenol, and phenol. These exceedances were in samples from wells MW-3, MW-5 and/or MW-10.

Metals

During the RI, concentrations of the following metals exceeded their respective Class GA criteria: arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead magnesium, manganese, mercury, nickel, sodium, and thallium. Most of these exceedances were observed in monitoring well MW-6. The excessive turbidity in the sample from MW-6 (>800 NTUs versus a range of 7.6 to 219 NTUs in other monitoring wells) may account for the greater metals concentrations. Metals exceeded their respective Class GA criteria in temporary sampling points prior to the RI, however when evaluating groundwater sample exceedances, it is important to consider that samples collected from temporary sample points likely reflect sample turbidity levels that would be considered unacceptable in samples collected from properly developed conventional monitoring wells.

Pesticides/PCBs

The concentration of one pesticide (heptachlor, 0.042 J- $\mu\text{g/L}$) exceeded its respective Class GA criteria (0.04 $\mu\text{g/L}$) in MW-10. No other pesticides or PCBs were detected in any groundwater samples collected as part of the RI activities. The earlier concentrations of pesticides reported in VES-14 are probably exaggerated relative to actual, dissolved groundwater concentrations due to the location being a temporary sampling point.

Per- and Polyfluoroalkyl Substances

Concentrations of one or more PFAS constituents were detected in monitoring wells MW-1 through MW-7 (MW-8 through MW-10 were not sampled for PFAS. PFOA

was measured in samples from wells MW-2 (13 ng/L), MW-3 (30.3 ng/L) and MW-4 (17.2 ng/L) at concentrations above the New York drinking water standard of 10 ng/L.

Monitored Natural Attenuation

As described in Section 4, post-remediation monitoring will include the continuing evaluation of natural attenuation. The following discussion of pre-remediation conditions is provided for background.

Groundwater constituents of concern, geochemistry, and field parameter data collected during the RI were evaluated to assess whether the groundwater constituents of concern at the Site are degrading through natural attenuation and if monitored natural attenuation (MNA) can serve as a potential remedy. The constituents of concern consisted of carbon disulfide (CS₂), PCE and PCE's degradation by-products TCE, 1,2-DCE, and VC. As previously noted, groundwater flow at the Site is generally southeast towards the Saw Mill River (Figure 6B).

MNA refers to the reliance on natural attenuation processes that occur in the subsurface to achieve Site-specific remediation objectives within a reasonable timeframe. These processes include degradation (biological oxidation and abiotic reduction), dispersion, dilution, sorption, and volatilization. Most aquifers have an intrinsic capacity to achieve remedial objectives through these natural attenuation processes. As a remedy, monitored natural attenuation is the demonstration that this intrinsic capacity will stabilize or reduce the concentrations of constituents in the aquifer.

Evaluation

A MNA evaluation was performed using the constituents of concern, geochemical, and field parameter data collected from the May 2019 and March 2020 sampling events. It is widely reported that PCE can reductively dechlorinate to ethene through the formation of by-products TCE, cis-DCE, and VC when groundwater conditions are anaerobic and adequate amounts of organic carbon (the electron donor source required for dechlorination), and bacteria (*Dehalococcoides* sp. known to degrade PCE to ethene) are present. The constituent of concern CS₂ is reported to biodegrade via intermediate

byproducts carbonyl sulfide and hydrogen sulfide, although the latter can precipitate out as metal sulfides and not be detected in the groundwater.

In addition to the constituents of concern evaluation (first line of evidence for MNA), geochemical data (respiratory substrates such as dissolved oxygen and sulfate and respiratory products such as ferrous iron, hydrogen sulfide, and methane) were considered (second line of evidence for MNA). The second line of evidence evaluation is to confirm the occurrence of biotransformation processes, an indirect line of evidence to support constituents of concern degradation. The constituents of concern and geochemistry data used in the MNA evaluation are summarized in Table 6B and Figure 6B.

The following observations were noted during the evaluation:

- A total of ten groundwater monitoring wells exist at the Site: Wells MW-1 and MW-2 are located upgradient; wells MW-4 and MW-5 are downgradient; and wells MW-3, MW-6, MW-7, MW-8, MW-9, and MW-10 are relatively more proximate to the river.
- CS₂ was detected in only one monitoring well (MW-5) at a concentration of 89 µg/L, exceeding the regulatory limit of 60 µg/L; concentrations in the other nine wells were below the regulatory limit.
- PCE was detected in four monitoring wells at concentrations of 6.2 µg/L, 5.3 µg/L, 490 µg/L, and 0.61 µg/L in MW-2, MW-4, MW-5, and MW-6, respectively. PCE concentrations in three of the four wells exceeded the regulatory limit of 5 µg/L; with well MW-5 reporting the highest PCE concentration of 490 µg/L.
- Ten monitoring wells at the Site were sampled:
 - Five wells (MW-3, MW-4, MW-5, MW-6, and MW-10) contained detectable concentrations of one or more degradation by-products of PCE (i.e., TCE, cis-DCE, and/or VC).
 - Four wells were not impacted and revealed no presence of PCE or degradation by-products (MW-1 [upgradient]; MW-7 [downgradient], and MW-8 and MW-9 [close to the river]).

- One well (MW-2) was impacted only with PCE with no degradation by-products detected.
- The degradation by-product ethene was not detected in any of the monitoring wells; it is likely this by-product is not formed or degraded further, thereby evading detection.
- Dissolved methane was detected in seven of the nine monitoring wells (MW-10 was not analyzed for methane) indicating that the groundwater conditions are generally anaerobic and conducive to the dechlorination of constituents of concern.
- The oxidation-reduction potential (ORP) data revealed that the groundwater consists of anaerobic zones with pockets of aerobic microsites; seven wells had an ORP range of 16 to -103 millivolts (mV) indicative of mild anaerobic conditions, while the range of 209 to 321 mV in the remaining three wells is indicative of aerobic conditions. Anaerobic conditions favor reductive dechlorination of the constituents of concern, while aerobic conditions can facilitate aerobic degradation of TCE, cis-DCE and VC.
- The average groundwater pH was 6.3 when all ten monitoring wells were considered, and it was 6.6 when well MW-5 was not considered. Field data reported well MW-5 at a low pH of 3.1 that requires further confirmation. A groundwater pH above 6 is typically required for complete dechlorination of PCE to ethene while a pH less than 6 could potentially stall and lead to cis-DCE and VC accumulation. However, cis-DCE and VC can also degrade in microaerobic pockets that exist within the anaerobic zone.
- TOC (electron donor source) concentrations in the nine monitoring wells averaged 3.5 mg/L (MW-10 was not analyzed for TOC). A higher TOC presence would further accelerate the constituents of concern dechlorination rate.

- Dissolved carbon dioxide was detected in all ten monitoring wells and is indicative of active biological activities and favorable groundwater conditions.

Discussion and Summary

Discounting the four monitoring wells that revealed no detection of the constituents of concern above the method detection limits, a majority of other wells (5 out of 6) revealed the presence of PCE degradation by-products (i.e., TCE, cis-DCE, and/or VC) indicative of natural attenuation of PCE. The only monitoring well that contained PCE alone (and no degradation by-products) was MW-2 with PCE concentration only slightly above the drinking water standard of 5 µg/L, at 6.2 µg/L. The PCE concentrations in two wells (MW-3 and MW-10) downgradient of well MW-2 were below the method detection limit but accompanied by cis-DCE and VC, indicating natural attenuation as the groundwater travelled from well MW-2 towards MW-3 and MW-10 (Figure 6B). Similarly, the very low PCE concentration of 5.3 µg/L measured in well MW-4 decreased to below the detection limit in the downgradient wells (MW-6 and MW-9), confirming that MNA is occurring. The highest PCE concentration of 490 µg/L observed in well MW-5 (with TCE and cis-DCE detected as byproducts) decreased to below the detection limit in the downgradient well MW-8. These observations support that PCE is naturally attenuating at the Site and its concentrations near the River are less compared to the upgradient locations.

CS₂ was detected in one monitoring well (MW-5) above the regulatory limit and attenuated to below the detection limit as groundwater travelled downgradient towards MW-8, indicating it does not reach the River. Note that there are isolated detections of chloroform, chlorobenzene, and benzene in the groundwater which are also expected to naturally attenuate.

2.5.4 Soil Vapor

Soil Vapor samples were collected in July 2019 at two outdoor locations (non-subslab) along the south side of the Site, near Lawrence Street. The samples were collected over 8 hours in SUMMA canisters and analyzed for VOCs by Method TO-15. Table 5

summarizes the results of the soil vapor samples that exceed the SCGs after completion of the remedial action. The locations of the soil vapor samples are shown on Figure 2.

The VOCs reported in one or both samples consist of 1,3-butadiene, MEK, acetone, benzene, carbon disulfide, carbon tetrachloride and chloroform. Results from the soil vapor samples were conservatively compared to typical indoor air concentrations expected for non-residential settings, as provided in the “Guidance for Evaluating Vapor Intrusion in New York State” (NYSDOH, October 2006). As recommended by the NYSDOH, typical indoor air concentrations in non-residential settings are the 90th percentile values from the USEPA Building Assessment and Survey Evaluation (BASE). In addition, detected concentrations from the soil vapor samples were compared to USEPA’s Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, as per the document entitled “OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air” (USEPA, June 2015). There are currently no buildings on the property; however, if soil vapors were to migrate into potential future non-residential buildings, the resulting concentrations in the buildings would be expected to be substantially less than those in the soil vapor due to attenuation (dilution) as vapor migrates through the subsurface. Vapor intrusion, through the foundation slab, into the building, is deemed unlikely and standard construction practices include a vapor barrier to be further protective of potential human exposures. To conservatively estimate the indoor air concentrations that may result if the soil vapor did migrate into a building, a generic attenuation factor of 0.03³ was applied to the soil vapor concentrations prior to the comparison, as recommended in Appendix A of the above-referenced USEPA document. Applying this factor, one exceedance of the guidance values was identified: the 1,3-butadiene concentration from sample SV-1 (0.45 µg/m³) slightly exceeded the USEPA Regional Screening Level - Composite Worker Air, Carcinogenic (0.41 µg/m³).

The limited soil vapor sampling and the screening described above indicate that future buildings have a potential to benefit from active or passive SVI mitigation. As noted in Section 3.2 (ICs), the potential for vapor intrusion must be evaluated for any buildings

³ Detected concentrations were diluted by multiplying concentrations by 0.03.

to be developed in the area within the Area of Soil Vapor Intrusion Concern noted on Figure 8, and any potential impacts that are identified must be monitored or mitigated.

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 remedial party and if requested by 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 remedial parties and the NYSDEC.

3.2 Institutional Controls

A series of ICs is required by the Decision Document 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 commercial and industrial 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 equivalent to the Site Boundary shown on Figure 2. These ICs are:

- The property may be used for commercial or industrial 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 NYSDEC;
- 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 future buildings developed in the area within the Area of Soil Vapor Intrusion Concern noted on Figure 8, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the Site are prohibited; and
- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, or if the subsurface is otherwise made accessible.

3.3 Engineering Controls

3.3.1 Cover/Fence

Exposure to remaining contamination at the Site is prevented by a cover system placed over the Site and/or fencing. The cover system is comprised of a minimum of 12 inches of clean fill material (soil and crushed concrete) over the majority of the Site and asphalt pavement in the southwest corner of the Site. Figure 7 presents the location of the cover system and demarcation layers, as well as location of the fencing. 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. Federal and local regulations restrict placement of cover material or otherwise obstructing flow in the FEMA-designated Floodway. As shown on Figure 7, on-Site access to most of the Floodway is currently restricted by fencing remaining from the former Akzo facility. This existing fencing will be retained. As part of the remedial action, additional fencing was installed along the previously unfenced edge of the FEMA-designated Floodway in the southeast portion of the Site (Figure 7). The existing and additional fencing will limit the disturbance of the Saw Mill River riverbank and its established vegetation, which could result in erosion of the bank and sedimentation within the river.

Procedures for the inspection of this cover and fencing 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) provided in Appendix H and the Community Air Monitoring Plan (CAMP) provided in Appendix B. Any disturbance of the Site's cover system and fencing must be overseen by a qualified environmental professional (QEP) as defined in 6 NYCRR Part 375, a Professional Engineer (PE) who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State.

3.3.2 Future Soil Vapor Intrusion Mitigation

As described in Section 2.5.5, VOCs have been documented in soil and groundwater at a number of locations on the Site, creating a potential for SVI in future

buildings that may be constructed as part of the commercial development of the Site. The area of concern is depicted in Figure 8.

Prior to designing a building, any area proposed for the building shall be further evaluated for potential SVI in accordance with “Guidance for Evaluating Soil Vapor Intrusion in the State of New York” (NYSDOH, 2006).

Future buildings where there is a potential for SVI shall be constructed with appropriate SVI mitigation measures designed in accordance with the above referenced NYSDOH guidance document. Mitigation technologies may include a passive vapor barrier and/or an active sub-slab depressurization system (SSDS).

If, in the future, buildings are constructed with SVI mitigation measures, this SMP will be revised to include pertinent operation, monitoring and reporting requirements. The revised SMP will be submitted to the NYSDEC for approval.

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. Unless waived by the NYSDEC, confirmation samples of applicable environmental media are required before terminating any remedial actions at the Site. Confirmation samples require Category B deliverables and a Data Usability Summary Report (DUSR).

As discussed below, the NYSDEC may approve termination of a groundwater monitoring program. When a remedial party receives this approval, the remedial party will decommission all Site-related monitoring, injection and recovery wells as per the NYSDEC CP-43 policy.

The remedial party will also conduct any needed Site restoration activities, such as asphalt patching and decommissioning treatment system equipment. In addition, the remedial party will conduct any necessary restoration of vegetation coverage, trees and wetlands, and will comply with NYSDEC and United States Army Corps of Engineers regulations and guidance. Also, the remedial party will ensure that no ongoing erosion is occurring on the Site.

3.3.3.1 – Cover/Fence

The composite cover system and fencing are permanent controls and the quality and integrity of these systems will be inspected at defined, regular intervals in accordance with this SMP in perpetuity. Portions of the cover may be replaced with appropriate substitutes such as asphalt paving, 12-inches of new clean fill, or new building foundations. Portions of the cover or fence may be eliminated if all remaining soil contamination has been removed. Any substitution or elimination of the cover or fence must be conducted pursuant to notification of the NYSDEC and in accordance with the EWP (Appendix B).

3.3.3.2 - Monitoring Wells associated with Monitored Natural Attenuation

Groundwater monitoring activities to assess natural attenuation will continue as described in Section 4.0, as determined by the NYSDEC in consultation with NYSDOH, until residual groundwater concentrations are found to be consistently below background (upgradient) concentrations or the Class GA groundwater standards 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 monitoring will be submitted by the remedial party. Monitoring will continue in accordance with Section 4.0 of this SMP 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.

3.3.3.3 - Monitoring Wells associated with In-Situ Chemical Oxidation (ISCO)

Groundwater monitoring will be performed after the ISCO soil mixing operations are completed. Results will be used to evaluate ISCO soil mixing performance. Four post-mixing monitoring events will be conducted at approximately three, six, nine, and 12 months as described in Section 4.0.

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 objectives, analytical methods, etc. for all samples collected as part of site management for the Site are included in the Field Sampling Plan (FSP) provided in Appendix F and Quality Assurance Project Plan (QAPP) provided in Appendix G.

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

- Sampling and analysis of appropriate media (groundwater);
- Assessing compliance with applicable NYSDEC groundwater standards; 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; and
- Monitoring well decommissioning procedures; and
- Annual inspection.

Reporting requirements are provided in Section 7.0 of this SMP.

4.2 Site – wide Inspection

Site-wide inspections will be performed once per year. These periodic inspections must be conducted when the ground surface is visible (i.e. no snow cover). Site-wide inspections will be performed by a qualified environmental professional as defined in 6

NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State. Modification of 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, erosional controls and/or monitoring devices. During these inspections, an inspection form will be completed as provided in Appendix I – 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 (Site cover and fencing);
- 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.

Reporting requirements are outlined in Section 7.0 of this plan.

Inspections will also be performed in the event of an emergency that has a potential to disrupt ECs. 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 project manager 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 defined in 6 NYCRR Part 375. Written confirmation must be provided to the NYSDEC project manager 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

Groundwater samples shall be collected from the Site monitoring wells on a routine basis to evaluate the effectiveness of the ISCO and to evaluate MNA of VOCs. Sampling locations required analytical parameters and schedule are provided in Table 8 – Remedial System Sampling Requirements and Schedule below. Modification to the frequency or sampling requirements will require approval from the NYSDEC project manager.

Table 8 – Post Remediation Sampling Requirements and Schedule

Sampling Location	Analytical Parameters						Schedule	
	TCL VOCs (EPA Method 8260)	MNA Parameters (Laboratory Analysis)	MNA Parameters (Field Analysis)	Total/Dissolved Metals (EPA Method 6010)	Geochemical Parameters (Laboratory Analysis)	Field Parameters (Field Analysis)		
		Chloride	Carbon dioxide (Hach Kit ^b)	Arsenic, Barium, Cadmium, Chromium, Hexavalent Chromium, Copper, Lead, Iron, Manganese, Selenium	Alkalinity	Dissolved Oxygen		
		Iron (total)	Iron (II) (Hach Kit ^b)		Sulfate	ORP		
		Manganese (total)	Manganese (II) (Hach Kit ^b)		Chloride	pH		
		Aluminum (total)	Sulfide (Hach Kit ^b)			Temperature		
		Nitrate/nitrite	Conductivity			Conductivity		
		Sulfate	ORP			Groundwater Levels		
		Ethane, ethene, and methane ^a	pH					
			DO					
			Temperature					
			Turbidity					
			Hydrogen Sulfide (Hach Kit ^b)					
<u>Monitoring Wells</u> MW-2, MW-3, MW-4, MW-5R, MW-6, MW-7, MW-8, MW-9, MW-10	X	X	X					Quarterly sampling for the first four quarters. Then twice yearly during seasonally high (typically early Spring) and low (typically early Fall) groundwater levels.
<u>Monitoring Wells</u> MW-4, MW-5R, MW-8	X				X	X	X	Baseline (Prior to ISCO), 3-, 6-, 9-, 12-months post-ISCO (Metals only during Baseline and 12-months post-ISCO)

- (a) Samples to be collected in zero headspace containers to prevent exchange of gases between the samples and the atmosphere.
- (b) Method will be per manufacturer's procedures.

Detailed sample collection and analytical procedures and protocols are provided in Appendix F – Field Activities Plan and Appendix G – Quality Assurance Project Plan. Groundwater samples will be collected from the monitoring wells specified above in Table 8. The depth to water will be measured in each monitoring well and the river staff gauge prior to groundwater sampling. Additionally, non-aqueous phase liquid (NAPL) gauging will be conducted on each Site monitoring well. In the unlikely event that NAPL is detected in a monitoring well, a groundwater sample will not be collected from that well. The NAPL may be sampled for characterization. Groundwater samples will be collected according to the USEPA low flow sampling protocol. The groundwater samples will be submitted for laboratory analysis as specified in Table 8 to evaluate the progress of MNA and the effectiveness of the ISCO. Analysis of groundwater samples will be conducted by a laboratory certified under NYSDOH ELAP to provide ASP/CLP deliverables. As described above, the analytical results will be provided to the NYSDEC as an EDD formatted to the NYSDEC’s data submission requirements.

4.4.3 Groundwater Sampling

Groundwater monitoring will be performed quarterly for the first four quarters and then twice yearly during seasonally high and low groundwater levels to assess the performance of the remedy (as indicated in Table 8). Modification to the frequency or sampling requirements will require approval from the NYSDEC project manager.

Groundwater monitoring will be performed to evaluate the effectiveness of the ISCO and to evaluate MNA. MNA is included in the groundwater sampling program to demonstrate that natural attenuation processes are active and that Site-specific remediation objectives will be achieved within a reasonable timeframe.

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:

- Provide upgradient and downgradient monitoring of Site groundwater quality.
- Provide downgradient monitoring of the ISCO remediation area.

- Enable MNA of groundwater quality to demonstrate that remedial objectives are achieved at downgradient receptors including the Saw Mill River.

The monitoring well network includes eight (8) monitoring wells (MW-3, MW-4, MW-5R, MW-6, MW-7, MW-8, MW-9, MW-10) that monitor downgradient plume migration.

Table 9 summarizes each monitoring well's identification number, purpose, location, depth, diameter and screened interval. As part of the groundwater monitoring, 1 upgradient well and 7 downgradient wells will be sampled to evaluate the effectiveness of the remedial system. The remedial party will measure depth to the water table for each monitoring well in the network before sampling.

Table 9 – Monitoring Well Construction Details							
Monitoring Well ID	Well Location	NY State Plane NAD 83 (Northing/Easting)	Well Diameter (inches)	Elevation (above mean sea level)			
				Casing	Surface	Screen Top	Screen Bottom
MW-2	Upgradient	790770.71/ 670046.17	2	131.42	131.63	121.5	106.5
MW-3	Downgradient	790634.59/ 670310.11	2	123.19	123.51	113.6	98.6
MW-4	Downgradient	790862.87/ 670370.06	2	129.93	130.41	122.0	107.0
MW-5R	Downgradient	791009.84/ 670395.71	2	129.21	129.46	120.5	105.5
MW-6	Downgradient	790787.96/ 670373.61	2	126.83	127.00	120.2	105.2
MW-7	Downgradient	791122.52/ 670461.31	2	126.33	126.49	118.7	103.7
MW-8	Downgradient	790967.07/ 670389.81	2	130.24	130.48	121.7	106.7
MW-9	Downgradient	790764.89/ 670397.37	2	122.06	122.38	114.3	99.3
MW-10	Downgradient	790562.86/ 670258.45	2	123.01	123.29	115.3	100.3

Monitoring well construction logs are included in Appendix E of this document. Well locations are shown on Figure 2. Analytical parameters are provided in Table 8. Minimum required reporting limits, where applicable, will be equivalent to the 6 NYCRR Part 703 Class GA Groundwater Standards. Samples, including field QA/QC samples will be collected and analyzed in accordance with the FSP (Appendix F) and the QAPP (Appendix G).

If biofouling or silt accumulation occurs in the 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 project manager 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 project manager. 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 project manager.

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

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

4.4.7 Monitoring and Sampling Protocol

All sampling activities will be recorded in a field book and associated sampling log as provided in Appendix I - Site Management Forms. Other observations (e.g., groundwater monitoring well integrity) 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 (FSP) provided as Appendix F of this document.

5.0 OPERATION AND MAINTENANCE PLAN

5.1 General

The Site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP. If an SSDS is installed in the future, the SMP will be revised to include O&M procedures.

6.0 PERIODIC ASSESSMENTS/EVALUATIONS

6.1 Climate Change Vulnerability Assessment

Potential increases in the severity and frequency of storms/weather events, an increase in flooding impacts, shifting precipitation patterns and temperature fluctuation, associated with global climatic change, have the potential to significantly impact the performance, effectiveness and protectiveness of a given Site remedy and associated remedial systems. Vulnerability assessments provide information so that the Site and associated remedial systems are prepared for such impacts.

A formal vulnerability assessment has not been conducted for the Site. As shown on the 2007 Federal Emergency Management Administration (FEMA) Flood Insurance Rate Map (FIRM, Appendix J), most of the area previously occupied by the buildings of the former Akzo Nobel Pilot Plant falls outside the 0.2% annual chance flood plain. The FIRM indicates most of the previously undeveloped portions of the Site fall within a designated Special Flood Hazard Area, which is an area subject to flooding by the 1% annual chance flood (100-year flood). The FIRM designates the Saw Mill River and immediately adjoining land as a Floodway Area, which must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

A vulnerability assessment will be conducted for the Site during periodic assessments and will briefly summarize the vulnerability of the Site and/or engineering controls to severe storms/weather events and associated flooding. At present the only engineering controls are Site cover and fencing; however, it is anticipated that future engineering controls may include passive vapor barriers or sub-slab depressurization systems or other measures to mitigate potential vapor intrusion in newly-constructed buildings.

The assessment will include, but not be limited to, a discussion of potential vulnerabilities such as the following, as appropriate based on future development of the Site:

- Flood Plain: Identify whether the Site is located in a flood plain, low-lying or low-groundwater recharge area.

- Site Drainage and Storm Water Management: Identify areas of the Site which may flood during severe rain events due to insufficient groundwater recharge capabilities or inadequate storm water management systems.
- Erosion: Identify any evidence of erosion at the Site or areas of the Site, including Site cover material, which may be susceptible to erosion during periods of severe rain events.
- High Wind: Identify areas of the Site and/or remedial system which may be susceptible to damage from the wind itself or falling objects, such as trees or utility structures during periods of high wind.
- Electricity: If a SSDS is installed in a future building, identify the susceptibility of the SSDS to power loss and/or dips/surges in voltage during severe weather events, including lightning strikes.

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. The green remediation evaluation will be reported in the Periodic Review Report (PRR).

The green remediation assessment will include, but not be limited to, a discussion of items listed below, in relation to the implementation and operation and maintenance of the selected remedy.

- Waste Generation (purged groundwater and disposal sampling equipment from groundwater sampling activities, etc.).
- Energy usage (electrical usage for operation of, Site lighting, security systems, etc.). Wind and solar driven ventilation fans may be used in future SSDS.
- Emissions (fuel usage for transportation to and from the Site for inspections and/or sampling, etc.).

- Water usage (identify sources of decontamination water, etc.).
- Land and/or ecosystems (describe any disturbances and restoration of land and/or ecosystems as part of implementation/operation of the remedy).

Methods proposed to reduce energy consumption, resource usage, waste generation, water usage, etc. will be included in the PRR.

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 NYSDEC 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 after approval from the DER project manager. 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, use of consumables in relation to visiting the Site in order to 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 I – 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 documenting an anticipated environmental footprint, provided in Appendix K, have been developed and will be revisited over time to

evaluate SMP activities and development more efficient green remediation actions as applicable.

6.3 Remedial System Optimization

A Remedial Site Optimization (RSO) study will be conducted if the NYSDEC project manager 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 ISCO and natural attenuation of groundwater impacts are not progressing as expected;
- Previously unidentified source material is suspected;
- Site conditions change due to development, change of use, change in groundwater use, etc.; or
- There is an anticipated transfer of the Site management to another remedial party or agency.

An RSO study will provide a critique of a Site's conceptual model for groundwater, give a summary of past performance of MNA, document current cleanup practices, summarize progress made toward the Site's groundwater 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 I. These forms are subject to NYSDEC revision. All Site management inspection, maintenance, and monitoring events will be conducted by a qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State.

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 10 and summarized in the Periodic Review Report.

Table 10: Schedule of Interim Monitoring/Inspection Reports	
Task/Report	Reporting Frequency*
Interim Inspection Letter Report	Once per year, coinciding with seasonally high (typically early Spring) groundwater monitoring event (to be reported in standalone letter report). The inspection coinciding with the seasonally low (typically early Fall) groundwater sampling event will be reported in the Periodic Review Report.
Periodic Review Report	Annually

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

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., outdoor air);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation);
- 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 NYSDEC project manager 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. In the event that the Site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the Site described in Appendix D -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, fire 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.
- Identification of any wastes generated during the reporting period, along with waste characterization data, manifests, and disposal documentation.

- Data summary tables and graphical representations of contaminants of concern by media (groundwater, which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These tables and figures will include a presentation of past data as part of an evaluation of contaminant concentration trends, including but not limited to:
 - Trend monitoring graphs that present groundwater contaminant levels from before the start of the remedy implementation to the most current sampling data;
 - A Site map with remaining groundwater contamination; and
 - A groundwater elevation contour map for each gauging event.
- 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 Decision Document;
 - 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;
 - An evaluation of trends in contaminant levels in the affected media to determine if the remedy continues to be effective in achieving remedial goals as specified by Decision Document; and
 - 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 and registered 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 engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the NYSDEC;*
- 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;*
- No new information has come to my attention, including groundwater monitoring data from wells located at the Site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-Site contamination are no longer valid; and*
- The information presented in this report is accurate and complete.*

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/Remedial Party or Owner's/Remedial Party's Designated Site Representative] for the Site."

Every five years the following will be added to the certification:

- *The assumptions made in the qualitative exposure assessment remain valid.*

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

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC project manager. The Periodic Review Report may also need to be submitted in hard-copy format if 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 or failure to conduct Site management activities, a Corrective Measures Work Plan will be submitted to the NYSDEC project manager 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 project manager.

7.4 Remedial Site Optimization Report

If an RSO is to be performed (see Section 6.3), upon completion of an RSO, an RSO report must be submitted to the NYSDEC project manager for approval. A general outline for the RSO report is provided in Section 6.3. The RSO report will document the research/ investigation and data gathering that was conducted, evaluate the results and facts obtained, present a revised conceptual Site model and present recommendations. RSO recommendations are to be implemented upon approval from the NYSDEC. Additional work plans, design documents, HASPs etc., may still be required to implement the recommendations, based upon the actions that need to be taken. A final engineering report and update to the SMP may also be required.

The RSO report will be submitted, in electronic format, to the NYSDEC project manager and the NYSDOH project manager.

8.0 REFERENCES

- Brown and Caldwell Associates, August 2021. Final Remedial Investigation Report, Ardsley, LLC (Former Akzo Nobel Pilot Plant Site), ID # C360146, Ardsley, New York.
- Brown and Caldwell Associates, June 2022, Alternatives Analysis and Remedial Action Work Plan, Ardsley LLC, Site # C360146, Town of Greenburgh, Westchester County, New York.
- First Environment, July 2017. Remedial Investigation Work Plan for the Former Akzo Nobel Pilot Plant, 1 Lawrence Street, Ardsley, New York
- First Environment, March 2019. Remedial Investigation Summary Report, Former Akzo Nobel Plant, One Lawrence Street, Ardsley, New York, DEC Site No. C360146.
- 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).
- NYSDEC/DER 6 NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.
- NYSDEC, May 2010. DER-10 / Technical Guidance for Site Investigation and Remediation. DEC Division of Environmental Remediation, Program Policy.
- NYSDOH, October 2006. Guidance for Evaluating Vapor Intrusion in New York State.
- Sovereign Consulting Inc., November 2009. Site Investigation Report for the Akzo Nobel Chemicals Inc. Pilot Plant, Ardsley, New York.
- USEPA, June 2015. OSWER Technical Guide for Assessing and Mitigation the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air.
- USEPA, November 2017. Regional Screening Level (RSL) Composite Worker Ambient Air Table (TR=1E-06, HQ=0.1).
- Vertex Companies, Inc., The, August 2014. Phase I Environmental Site Assessment, Former Akzo Nobel Pilot Plant Facility, Saw Mill River Road and Lawrence Street, Ardsley, New York 10502.

TABLES

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-2 (1.5-2')	SB-3 (0.5-2')	SB-10 (7-8')	SB-10A (12-12.5')	SB-11 (7-8')	SB-16 (2.5-4')	SB-21 (11.5-12')	SB-22 (0.5-1')	SB-23 (0.5-1')
	Unrestricted Use	Units	10/2/2006	10/2/2006	10/2/2006	5/27/2009	10/5/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006
<i>Volatile Organic Compounds (VOCs)</i>											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-2 (1.5-2')	SB-3 (0.5-2')	SB-10 (7-8')	SB-10A (12-12.5')	SB-11 (7-8')	SB-16 (2.5-4')	SB-21 (11.5-12')	SB-22 (0.5-1')	SB-23 (0.5-1')
	Unrestricted Use	Units	10/2/2006	10/2/2006	10/2/2006	5/27/2009	10/5/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	--	--	0.0024 J	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	--	--	--	--	98.8	--	--	--
Toluene	0.7	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	--	--	0.0017 J	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
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ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-2 (1.5-2')	SB-3 (0.5-2')	SB-10 (7-8')	SB-10A (12-12.5')	SB-11 (7-8')	SB-16 (2.5-4')	SB-21 (11.5-12')	SB-22 (0.5-1')	SB-23 (0.5-1')
	Unrestricted Use	Units	10/2/2006	10/2/2006	10/2/2006	5/27/2009	10/5/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	1.36	0.0419 J	--	--	--	--	9.82	0.0227 J	0.454
Acenaphthylene	100	mg/kg	0.0197 J	0.0546 J	--	--	--	--	--	0.639	6.31
Anthracene	100	mg/kg	1.61	0.14	--	--	--	--	2.02	0.339	4.29
Benz(a)anthracene	1	mg/kg	2.47	0.64	0.0844	--	--	--	0.169 J	0.938	13.3
Benzo(a)pyrene	1	mg/kg	1.88	0.539	0.0718 J	--	--	--	--	1.06	16.2
Benzo(b)fluoranthene	1	mg/kg	2.59	0.74	0.0941	--	--	--	0.225 J	2.18	25.9
Benzo(g,h,i)perylene	100	mg/kg	0.384	0.139	0.0338 J	--	--	--	--	0.488	7.05
Benzo(k)fluoranthene	0.8	mg/kg	1.72	0.752	0.0844	--	--	--	--	1.57	17.9
Chrysene	1	mg/kg	2.34	0.592	0.114	--	--	--	0.192 J	1.23	16.9
Dibenz(a,h)anthracene	0.33	mg/kg	0.235	0.0856	--	--	--	--	--	0.206	3.14
Fluoranthene	100	mg/kg	5.33	0.674	0.149	--	--	--	1.01	1.25	15.4
Fluorene	30	mg/kg	0.98	0.0581 J	--	--	--	--	8.61	0.0261 J	1.33
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.519	0.196	0.0361 J	--	--	--	--	0.585	8.39
Naphthalene	12	mg/kg	0.522	0.0378	--	--	--	--	36.4	0.0527 J	0.478
Phenanthrene	100	mg/kg	5.11	0.376	0.0809	--	--	--	16.4	0.392	9.41
Pyrene	100	mg/kg	5.14	0.605	0.128	--	--	--	0.888	1.28	18.1
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
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ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-2 (1.5-2')	SB-3 (0.5-2')	SB-10 (7-8')	SB-10A (12-12.5')	SB-11 (7-8')	SB-16 (2.5-4')	SB-21 (11.5-12')	SB-22 (0.5-1')	SB-23 (0.5-1')
	Unrestricted Use	Units	10/2/2006	10/2/2006	10/2/2006	5/27/2009	10/5/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	0.0372	0.166 J
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.167	0.371 J
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
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TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-2 (1.5-2')	SB-3 (0.5-2')	SB-10 (7-8')	SB-10A (12-12.5')	SB-11 (7-8')	SB-16 (2.5-4')	SB-21 (11.5-12')	SB-22 (0.5-1')	SB-23 (0.5-1')
	Unrestricted Use	Units	10/2/2006	10/2/2006	10/2/2006	5/27/2009	10/5/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	1.87	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	7.06	0.0021	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	35.5	0.0129	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	0.0034	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	0.0427	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	6.47	0.0035	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	0.399	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	0.0044	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	--

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	Unrestricted Use	Units	10/2/2006	10/2/2006	10/2/2006	5/27/2009	10/5/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	5.5	9.7
Arsenic	13	mg/kg	7.7	8	31.5	--	--	--	--	2.6	2.4
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	1.2	5.1
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	0.64
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	7.2	16.9	20.8	--	17.6	--	--	58.9	189
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	17.9	58.2	22	--	18.1	--	--	295	842
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	44.3	45	78.3	--	3.3	--	--	172	584
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	1.5	0.48	0.66	--	--	--	--	1.6	9
Nickel	30	mg/kg	--	13.2	10.1	--	13.5	--	--	160	494
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	3.3	--	--	--	--	2.9	4.7
Silver	2	mg/kg	--	--	--	--	--	--	--	--	1.6
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	26.1	42.5	31.1	--	36.1	--	--	509	1970
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives		SB-25 (7-8')	SB-26 (7.5-8')	SB-27 (2.8-4')	SB-29 (11.5-12')	SB-32 (11.5-12')	SB-34 (13-13.5')	SB-37 (9-10')	SB-38 (11-12')	SB-38A (15-15.5')
	[6 NYCRR Subpart 375-6]	Units	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	4/16/2014
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	0.77 U
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	0.0129	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	--	0.077 U
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	0.38 U
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	0.0093	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	7.7 U
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	0.0372	--	0.0186	--	--	0.27 J
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	0.284	0.0616	0.132	--	--	0.77 U
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	0.0192	0.0032	0.077 U
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	0.0023 J	0.009	0.0108	0.0755	0.708 J	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	0.0291	0.0594	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives		SB-25 (7-8')	SB-26 (7.5-8')	SB-27 (2.8-4')	SB-29 (11.5-12')	SB-32 (11.5-12')	SB-34 (13-13.5')	SB-37 (9-10')	SB-38 (11-12')	SB-38A (15-15.5')
	[6 NYCRR Subpart 375-6]	Units	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	4/16/2014
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	--	--	--	0.0019 J	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	--	--	--	--	0.0956	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	0.0352	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	0.0059	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	--	--	--	--	--	--	0.77 U
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	0.0136	0.0015 J	0.0649	--	--	--	0.0261	7.83	--
Toluene	0.7	mg/kg	--	--	--	--	--	--	--	0.0071	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	0.0027 J	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	--	--	--	0.0249	0.192	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--	0.15 U
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	0.0166	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-25 (7-8')	SB-26 (7.5-8')	SB-27 (2.8-4')	SB-29 (11.5-12')	SB-32 (11.5-12')	SB-34 (13-13.5')	SB-37 (9-10')	SB-38 (11-12')	SB-38A (15-15.5')
	Unrestricted Use	Units	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	4/16/2014
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	0.0299 J	0.0807 J	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	0.417	0.119	0.199 J	--	--	--	--	--	--
Anthracene	100	mg/kg	0.639	0.23	0.214 J	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	2.22	0.673	0.628	--	--	--	--	--	--
Benzo(a)pyrene	1	mg/kg	1.7	0.604	0.644	--	--	0.0167 J	--	--	--
Benzo(b)fluoranthene	1	mg/kg	2.3	0.741	0.767	--	--	0.0269 J	0.0246 J	--	--
Benzo(g,h,i)perylene	100	mg/kg	1.43	0.393	0.617	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	1.68	0.418	0.666	--	--	--	--	--	--
Chrysene	1	mg/kg	2.63	0.823	0.864	--	--	0.025 J	0.0363 J	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	0.477	0.12	0.199 J	--	--	--	--	--	--
Fluoranthene	100	mg/kg	3.56	1.67	0.991	--	--	0.0202 J	0.0727 J	--	--
Fluorene	30	mg/kg	0.0475 J	0.0888	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	1.43	0.383	0.63	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	0.122	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	1.23	1.03	0.408	--	--	--	0.0365 J	--	--
Pyrene	100	mg/kg	3.55	1.51	0.929	--	--	--	0.0486 J	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-25 (7-8')	SB-26 (7.5-8')	SB-27 (2.8-4')	SB-29 (11.5-12')	SB-32 (11.5-12')	SB-34 (13-13.5')	SB-37 (9-10')	SB-38 (11-12')	SB-38A (15-15.5')
	Unrestricted Use	Units	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	4/16/2014
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
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TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

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	Unrestricted Use	Units	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	4/16/2014
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	0.0077	0.0067	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	0.0871	--
4-4'-DDT	0.0033	mg/kg	--	0.0194	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	0.0039	--	--	--	--	--	0.451	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	0.043	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	5.42	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-25 (7-8')	SB-26 (7.5-8')	SB-27 (2.8-4')	SB-29 (11.5-12')	SB-32 (11.5-12')	SB-34 (13-13.5')	SB-37 (9-10')	SB-38 (11-12')	SB-38A (15-15.5')
	Unrestricted Use	Units	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006	4/16/2014
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	8.5	--	--	--	3.7	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	3.9	6.3	14.6	--	--	--	23.1	42.7	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	17.1	11.1	44.7	--	--	--	31.5	33.3	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	12.5	11	90.6	--	--	--	14	21.8	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	0.15	0.81	1.1	--	--	--	0.14	0.17	--
Nickel	30	mg/kg	6.2	6.4	7.9	--	--	--	15.1	15	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	6.1	19.8	30.6	--	--	--	85.1	180	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-39 (11-12')	SB-41 (6.5-8')	SB-49A (0-4')	SB-49B (5-5.5')	SB-50 (11-11.5')	SB-51 (11-11.5')	SB-53 (13-14')	SB-54 (12-14')	SB-57 (0-2')
	Unrestricted Use	Units	10/3/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/5/2006	10/5/2006	10/5/2006
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	0.0436 J	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	0.0788 J	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	1.46	--	--	0.128	0.0777 J	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	0.137	0.0018 J	1150 E	--	--	1.42	0.0982 J	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	0.0805 J	0.798	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-39 (11-12')	SB-41 (6.5-8')	SB-49A (0-4')	SB-49B (5-5.5')	SB-50 (11-11.5')	SB-51 (11-11.5')	SB-53 (13-14')	SB-54 (12-14')	SB-57 (0-2')
	Unrestricted Use	Units	10/3/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/5/2006	10/5/2006	10/5/2006
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	--	--	--	--	--	0.0041 J
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	2.99	6.67	15.2	1.17	0.67	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	0.0027 J	--	--	--	--	--	0.0057 J
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	--	--	23.9	0.171 J	0.246 J	--	0.477	0.0572
Toluene	0.7	mg/kg	--	--	--	3.68	--	0.767	--	0.0473 J	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	0.317 J	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	173	53	199	1.98	1.66	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-39 (11-12')	SB-41 (6.5-8')	SB-49A (0-4')	SB-49B (5-5.5')	SB-50 (11-11.5')	SB-51 (11-11.5')	SB-53 (13-14')	SB-54 (12-14')	SB-57 (0-2')
	Unrestricted Use	Units	10/3/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/5/2006	10/5/2006	10/5/2006
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	0.78	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	0.0294 J	0.599	--	--	--	--	--	--	0.0572 J
Anthracene	100	mg/kg	0.0335 J	2.7	--	--	--	--	--	--	0.115
Benz(a)anthracene	1	mg/kg	0.125	7.78	--	--	--	--	--	--	0.574
Benzo(a)pyrene	1	mg/kg	0.117	7.46	--	--	--	--	--	--	0.563
Benzo(b)fluoranthene	1	mg/kg	0.137	6.51	--	--	--	--	--	--	0.617
Benzo(g,h,i)perylene	100	mg/kg	0.111	2.1	--	--	--	--	--	--	0.215
Benzo(k)fluoranthene	0.8	mg/kg	0.0952	3.77	--	--	--	--	--	--	0.572
Chrysene	1	mg/kg	0.0363 J	7.51	--	--	--	--	--	--	0.602
Dibenz(a,h)anthracene	0.33	mg/kg	--	0.727	--	--	--	--	--	--	0.0831
Fluoranthene	100	mg/kg	0.225	16.2	--	--	--	--	--	--	0.744
Fluorene	30	mg/kg	--	1.37	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.0997	2.2	--	--	--	--	--	--	0.238
Naphthalene	12	mg/kg	0.0424 J	0.0378 J	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	0.122	13.8	--	--	--	--	0.0194 J	--	0.301
Pyrene	100	mg/kg	0.166	14.3	--	--	--	--	--	--	0.737
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	0.037 J
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-39 (11-12')	SB-41 (6.5-8')	SB-49A (0-4')	SB-49B (5-5.5')	SB-50 (11-11.5')	SB-51 (11-11.5')	SB-53 (13-14')	SB-54 (12-14')	SB-57 (0-2')
	Unrestricted Use	Units	10/3/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/5/2006	10/5/2006	10/5/2006
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	0.233
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives		SB-39 (11-12')	SB-41 (6.5-8')	SB-49A (0-4')	SB-49B (5-5.5')	SB-50 (11-11.5')	SB-51 (11-11.5')	SB-53 (13-14')	SB-54 (12-14')	SB-57 (0-2')
	[6 NYCRR Subpart 375-6]	Units									
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	0.0089	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	0.0043	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	0.0239	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	5.25
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	5.25

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-39 (11-12')	SB-41 (6.5-8')	SB-49A (0-4')	SB-49B (5-5.5')	SB-50 (11-11.5')	SB-51 (11-11.5')	SB-53 (13-14')	SB-54 (12-14')	SB-57 (0-2')
	Unrestricted Use	Units	10/3/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/4/2006	10/5/2006	10/5/2006	10/5/2006
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	19.9	--	--	--	--	--	--	--	9.4
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	1.1
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	42.8	--	25.2	--	--	--	19.1	20.6	25.8
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	72.6	--	26.7	--	--	--	12.8	21.4	74.3
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	31	--	2.7	--	--	--	--	3	62.1
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	2.2	--	--	--	--	--	--	--	1.9
Nickel	30	mg/kg	14.1	--	17.8	--	--	--	24	34.5	21.6
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	8.4	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	11
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	170	--	39.9	--	--	--	52.9	83.9	136
Cyanide	27	mg/kg	19.7	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-58 (0-2')	SB-59 (0-0.5')	SB-60 (0-0.5')	SB-61 (0-2')	SB-62 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-72 (0-2')
	Unrestricted Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	--	0.0012 J
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-58 (0-2')	SB-59 (0-0.5')	SB-60 (0-0.5')	SB-61 (0-2')	SB-62 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-72 (0-2')
	Unrestricted Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	--	--	--	--	0.0018 J	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	0.0052 J	--	--	0.0077	0.0078	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	0.0153	--	--	--	0.0015 J	--	--	0.121	0.0017 J
Toluene	0.7	mg/kg	--	--	--	0.0077	0.0012	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	--	--	--	--	0.0024 J	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-58 (0-2')	SB-59 (0-0.5')	SB-60 (0-0.5')	SB-61 (0-2')	SB-62 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-72 (0-2')
	Unrestricted Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	0.343 J	0.304	--	--	--	0.0504 J	0.0233 J	0.0528 J	--
Acenaphthylene	100	mg/kg	0.197	1.13	0.0679 J	0.0298 J	--	0.0444 J	0.0934	0.0938	--
Anthracene	100	mg/kg	0.153	1.95	0.0846	0.192	--	0.13	0.107	0.253	0.015 J
Benz(a)anthracene	1	mg/kg	0.454	8.07	0.554	1.2	--	0.483	0.425	1.14	0.0469 J
Benzo(a)pyrene	1	mg/kg	0.308	7.28	0.559	0.652	0.0155 J	0.487	0.384	1.04	0.0478 J
Benzo(b)fluoranthene	1	mg/kg	0.341	8.32	0.662	0.94	0.0214 J	0.743	0.617	1.01	0.0468 J
Benzo(g,h,i)perylene	100	mg/kg	0.0901	2.64	0.261	0.183	--	0.181	0.16	0.564	0.0294 J
Benzo(k)fluoranthene	0.8	mg/kg	0.471	6.47	0.563	0.955	--	0.613	0.55	0.916	0.0324 J
Chrysene	1	mg/kg	0.369	7.61	0.575	1.04	0.0169 J	0.637	0.517	1.17	0.0469 J
Dibenz(a,h)anthracene	0.33	mg/kg	0.0509 J	1.06	0.0986	0.103	--	0.0688 J	0.0738 J	0.243	--
Fluoranthene	100	mg/kg	0.817	11.4	0.731	1.46	--	0.974	0.668	1.62	0.0839
Fluorene	30	mg/kg	0.0989	0.611	--	--	--	0.0437 J	0.0433 J	0.0537 J	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.126	2.88	0.302	0.265	--	0.195	0.201	0.608	0.0281 J
Naphthalene	12	mg/kg	--	0.042 J	--	--	--	0.0739 J	0.054 J	--	--
Phenanthrene	100	mg/kg	0.558	7.06	0.238	0.541	--	0.599	0.378	0.933	0.0455 J
Pyrene	100	mg/kg	0.563	12.6	0.663	1.34	--	1.13	0.662	1.51	0.0693 J
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	0.032 J	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-58 (0-2')	SB-59 (0-0.5')	SB-60 (0-0.5')	SB-61 (0-2')	SB-62 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-72 (0-2')
	Unrestricted Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.164	0.335	0.0915	--	--	2.07	0.37	0.174	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	0.2	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	0.279	0.129	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	0.274	0.0536 J	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	0.866	0.0716 J	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	0.0777 J	--	--	--	0.0233 J	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	0.0208 J	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	0.0587 J	--	--	--	0.232	0.843	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-58 (0-2')	SB-59 (0-0.5')	SB-60 (0-0.5')	SB-61 (0-2')	SB-62 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-72 (0-2')
	Unrestricted Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	0.178	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	0.315	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	0.569	--	--	--	--	0.135	0.13	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	4.56	--	--	--	--	0.107	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	0.036	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	1.94	0.271	0.997	1.68	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	0.755	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	1.94	0.271	1.994	1.81	--	--

TABLE 2a
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ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-58 (0-2')	SB-59 (0-0.5')	SB-60 (0-0.5')	SB-61 (0-2')	SB-62 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-72 (0-2')
	Unrestricted Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	29.5	--	--	--
Arsenic	13	mg/kg	15.5	7.8	3.6	--	--	37	12.3	--	4.5
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	0.95	--	0.76	--	1	21.8	3.2	--	1.3
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	15.3	26.4	25.4	10.9	25.1	511	60.9	--	50.8
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	35.9	36.3	32.1	11.6	32.9	393	72.1	--	43.1
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	10.9	281	136	14.9	37	1450	106	--	108
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	2.6	0.72	0.51	0.17	0.35	39.5	0.23	--	0.064
Nickel	30	mg/kg	11.3	20.3	21.5	8.5	15.1	135	27.5	--	96.5
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	3.2
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	131	197	144	33.1	157	1190	295	--	130
Cyanide	27	mg/kg	--	--	--	--	--	0.52	0.4	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-73 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')	SB-77 (7.5-8')	SB-79 (7.5-8')	SB-80 (7.5-8')	SB-84A (1-1.5')
	Unrestricted Use	Units	10/6/2006	10/6/2006	4/17/2014	10/6/2006	5/27/2009	5/27/2009	5/27/2009	5/28/2009
<i>Volatile Organic Compounds (VOCs)</i>										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	0.0016	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	0.0013 J	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-73 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')	SB-77 (7.5-8')	SB-79 (7.5-8')	SB-80 (7.5-8')	SB-84A (1-1.5')
	Unrestricted Use	Units	10/6/2006	10/6/2006	4/17/2014	10/6/2006	5/27/2009	5/27/2009	5/27/2009	5/28/2009
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	0.0087 J	0.0107	--	0.0013 J	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	0.0065	--	--	--	--	--	--	--
Toluene	0.7	mg/kg	--	0.0111 J	--	0.0011 J	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	0.0076	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	0.0019 J	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-73 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')	SB-77 (7.5-8')	SB-79 (7.5-8')	SB-80 (7.5-8')	SB-84A (1-1.5')
	Unrestricted Use	Units	10/6/2006	10/6/2006	4/17/2014	10/6/2006	5/27/2009	5/27/2009	5/27/2009	5/28/2009
Semi-Volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	mg/kg	--	--	--	0.104	--	--	--	--
Acenaphthylene	100	mg/kg	0.0588 J	--	--	0.138	--	--	--	0.0347 J
Anthracene	100	mg/kg	0.0404 J	0.0305 J	--	0.53	--	--	--	0.0756
Benz(a)anthracene	1	mg/kg	0.288	0.145	--	0.984	--	--	--	0.634
Benzo(a)pyrene	1	mg/kg	0.283	0.11	--	0.692	--	--	--	0.746
Benzo(b)fluoranthene	1	mg/kg	0.443	0.132	--	0.64	--	--	--	0.731
Benzo(g,h,i)perylene	100	mg/kg	0.26	0.0643 J	--	0.399	--	--	--	0.612
Benzo(k)fluoranthene	0.8	mg/kg	0.308	0.12	--	0.623	--	--	--	0.579
Chrysene	1	mg/kg	0.448	0.148	--	0.924	--	--	--	0.659
Dibenz(a,h)anthracene	0.33	mg/kg	0.1	--	--	0.0459	--	--	--	0.212
Fluoranthene	100	mg/kg	0.542	0.145	--	2.26	--	--	--	0.814
Fluorene	30	mg/kg	--	--	--	0.157	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.278	0.0749 J	--	0.401	--	--	--	0.6
Naphthalene	12	mg/kg	0.0318 J	0.0519 J	--	0.0918	--	--	--	--
Phenanthrene	100	mg/kg	0.2	0.167	--	2.17	--	--	--	0.17
Pyrene	100	mg/kg	0.38	0.12	--	1.68	--	--	--	0.682
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-73 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')	SB-77 (7.5-8')	SB-79 (7.5-8')	SB-80 (7.5-8')	SB-84A (1-1.5')
	Unrestricted Use	Units	10/6/2006	10/6/2006	4/17/2014	10/6/2006	5/27/2009	5/27/2009	5/27/2009	5/28/2009
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.17	0.178	--	0.122	--	--	--	0.0627 J
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	0.0499 J
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-73 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')	SB-77 (7.5-8')	SB-79 (7.5-8')	SB-80 (7.5-8')	SB-84A (1-1.5')
	Unrestricted Use	Units	10/6/2006	10/6/2006	4/17/2014	10/6/2006	5/27/2009	5/27/2009	5/27/2009	5/28/2009
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	0.0033	mg/kg	--	--	--	0.129	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	0.109	--	0.0078	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	0.367	--	0.0146	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	0.0532	0.0228	0.129	0.0191	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.0424 U	--	0.464 U	--	--	--	--	--
Aroclor 1221	NE	mg/kg	0.0424 U	--	0.464 U	--	--	--	--	--
Aroclor 1232	NE	mg/kg	0.0424 U	--	0.464 U	--	--	--	--	--
Aroclor 1242	NE	mg/kg	0.0424 U	--	0.464 U	--	--	--	--	--
Aroclor 1248	NE	mg/kg	0.0424 U	--	0.464 U	--	--	--	--	--
Aroclor 1254	NE	mg/kg	0.0424 U	3.44	3.18	--	--	--	--	--
Aroclor 1260	NE	mg/kg	0.0424 U	--	0.464 U	--	--	--	--	--
Aroclor 1268	NE	mg/kg	0.0424 U	--	0.464 U	--	--	--	--	--
Aroclor-1262	NE	mg/kg	0.0424 U	--	0.464 U	--	--	--	--	--
Total PCBs	0.1	mg/kg	0.0424	3.44	3.18	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-73 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')	SB-77 (7.5-8')	SB-79 (7.5-8')	SB-80 (7.5-8')	SB-84A (1-1.5')
	Unrestricted Use	Units	10/6/2006	10/6/2006	4/17/2014	10/6/2006	5/27/2009	5/27/2009	5/27/2009	5/28/2009
Inorganics										
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	3.4	5.5	--	24.2	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	7.6	10.5	--	15.1	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--
Copper	50	mg/kg	11.4	18.8	--	28.3	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--
Lead	63	mg/kg	39.8	17.8	--	13.7	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	0.21	0.18	--	0.47	--	--	--	--
Nickel	30	mg/kg	--	10.5	--	13.7	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	10.6	22.6	--	29.7	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VES-1 (13.5-14')	VES-1 (13.5-14')	VES-1A (2.5-4')	VES-1A (2.5-4')	VES-1B (13-13.5')	VES-5 (3.25-4')	VES-7 (2-3')	VB-6 (13.5-14')	VB-6 (13.5-14')
	Unrestricted Use	Units	7/18/2018	7/18/2018	3/1/2014	3/1/2014	3/1/2014	3/1/2014	3/1/2014	4/16/2014	4/16/2014
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	0.54 U	--	--	--	--	--	--	--	0.073 U
1,1,1-Trichloroethane	0.68	mg/kg	0.54 U	0.54 U	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
1,1,2,2-Tetrachloroethane	NE	mg/kg	0.54 U	--	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	0.54 U	--	0.12 U	--	2 U	0.02 U	0.019 U	--	--
1,1,2-Trichloroethane	NE	mg/kg	0.54 U	--	0.0091 U	--	0.15 U	0.0015 U	0.0014 U	--	0.11 U
1,1-Dichloroethane	0.27	mg/kg	0.54 U	--	0.0091 U	--	0.15 U	0.0015 U	0.0014 U	--	0.11 U
1,1-Dichloroethene	0.33	mg/kg	0.54 U	0.54 U	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	0.36 U
1,2,3-Trichlorobenzene	NE	mg/kg	0.54 U	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.36 U
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	0.73 U
1,2,4-Trichlorobenzene	NE	mg/kg	0.54 U	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.36 U
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.89
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	0.42
1,2-Dibromo-3-chloropropane	NE	mg/kg	0.54 U	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.36 U
1,2-Dibromoethane	NE	mg/kg	--	--	0.024 U	--	0.39 U	0.004 U	0.0037 U	--	0.29 U
1,2-Dichlorobenzene	1.1	mg/kg	0.54 U	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.36 U
1,2-Dichloroethane	0.02	mg/kg	0.54 U	0.54 U	0.01	0.009 U	0.098 U	0.001 U	0.00093 U	0.073 U	0.073 U
1,2-Dichloropropane	NE	mg/kg	0.54 U	--	0.021 U	--	0.34 U	0.0035 U	0.0033 U	--	0.26 U
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.3 J
1,3-Dichlorobenzene	2.4	mg/kg	0.54 U	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.36 U
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	0.36 U
1,3-Dichloropropene, Total	NE	mg/kg	--	--	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	--
1,4-Dichlorobenzene	1.8	mg/kg	0.54 U	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.36 U
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	0.18 J
1,4-Dioxane	0.1	mg/kg	27 U	--	0.61 U	--	9.8 U	0.1 U	0.093 U	--	7.3 U
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	0.36 U
2-Butanone (MEK)	0.12	mg/kg	2.7 U	2.7 U	0.061 U	--	0.34 J	0.01 U	0.0093 U	0.73 U	0.73 U
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	2.7 U	--	0.061 U	--	0.98 U	0.01 U	0.0093 U	--	0.73 U
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	0.42
2-Methyl-2-propanol	NE	mg/kg	5.4 U	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	2.7 U	--	0.061 U	--	0.98 U	0.01 U	0.0093 U	--	0.73 U
Acetone	0.05	mg/kg	2.7 U	2.7 U	0.22 U	--	0.42 J	0.036 U	0.0059 J	0.73 U	0.73 U
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	0.73 U
Benzene	0.06	mg/kg	0.26 J	0.26 J	0.0061 U	--	0.097 J	0.001 U	0.00093 U	0.086	0.086
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	0.36 U
Bromochloromethane	NE	mg/kg	--	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.36 U
Bromodichloromethane	NE	mg/kg	--	--	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
Bromoform	NE	mg/kg	0.54 U	--	0.024 U	--	0.39 U	0.004 U	0.0037 U	--	0.29 U
Bromomethane	NE	mg/kg	0.54 U	--	0.012 U	--	0.2 U	0.002 U	0.0019 U	--	0.15 U
Carbon disulfide	NE	mg/kg	2.6	2.6	0.061 U	--	58	0.01 U	0.0093 U	--	0.78
Carbon tetrachloride	0.76	mg/kg	0.54 U	0.54 U	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
Chlorobenzene	1.1	mg/kg	0.54 U	0.54 U	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.056 J
Chlorobromomethane	NE	mg/kg	0.54 U	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	0.54 U	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VES-1 (13.5-14')	VES-1 (13.5-14')	VES-1A (2.5-4')	VES-1A (2.5-4')	VES-1B (13-13.5')	VES-5 (3.25-4')	VES-7 (2-3')	VB-6 (13.5-14')	VB-6 (13.5-14')
	Unrestricted Use	Units	7/18/2018	7/18/2018	3/1/2014	3/1/2014	3/1/2014	3/1/2014	3/1/2014	4/16/2014	4/16/2014
Chloroethane	NE	mg/kg	0.54 U	--	0.012 U	--	0.2 U	0.002 U	0.0019 U	--	0.15 U
Chloroform	0.37	mg/kg	0.54 U	0.54 U	0.013	0.013	0.15 U	0.0015 U	0.0014 U	--	0.11 U
Chloromethane	NE	mg/kg	0.54 U	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.36 U
cis-1,2-Dichloroethene	0.25	mg/kg	0.54 U	0.54 U	0.0052 J	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
cis-1,3-Dichloropropene	NE	mg/kg	0.54 U	--	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
Cyclohexane	NE	mg/kg	0.54 U	0.54 U	0.12 U	--	2 U	0.02 U	0.019 U	--	--
Dibromochloromethane	NE	mg/kg	0.54 U	--	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	0.73 U
Dichlorodifluoromethane	NE	mg/kg	0.54 U	--	0.061 U	--	0.98 U	0.01 U	0.0093 U	--	0.73 U
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	0.36 U
Ethylbenzene	1	mg/kg	0.54 U	0.54 U	0.0061 U	0.006 U	0.098 U	0.001 U	0.00093 U	--	0.17
Ethylene Dibromide	NE	mg/kg	0.54 U	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	0.36 U
Isopropylbenzene	NE	mg/kg	0.54 U	0.54 U	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.095
Methyl Acetate	NE	mg/kg	1.5 J	1.5 J	0.024 U	--	0.39 U	0.004 U	0.0037 U	--	--
Methyl cyclohexane	NE	mg/kg	0.54 U	0.54 U	0.024 U	--	0.39 U	0.004 U	0.0037 U	--	--
Methyl tert butyl ether	0.93	mg/kg	0.54 U	--	0.012 U	--	0.2 U	0.002 U	0.0019 U	--	0.15 U
Methylene chloride	0.05	mg/kg	0.54 U	0.54 U	0.03 U	0.03 U	0.49 U	0.0051 U	0.0047 U	0.73 U	0.73 U
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	0.88
n-Butylbenzene	12	mg/kg	--	--	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.18
n-Propylbenzene	3.9	mg/kg	--	--	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.17
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	0.36 U
o-Xylene	0.26	mg/kg	0.54 U	0.54 U	0.012 U	--	0.2 U	0.002 U	0.0019 U	--	0.18
p/m-Xylene	0.26	mg/kg	0.54 U	0.54 U	0.012 U	--	0.2 U	0.002 U	0.0019 U	--	0.16
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	0.36 U
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	0.12
sec-Butylbenzene	11	mg/kg	--	--	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.12
Styrene	NE	mg/kg	0.54 U	0.54 U	0.012 U	--	0.2 U	0.002 U	0.0019 U	--	0.15 U
tert-Butylbenzene	5.9	mg/kg	--	--	0.03 U	--	0.49 U	0.0051 U	0.0047 U	--	0.36 U
Tetrachloroethene	1.3	mg/kg	33	33	100	100	4.6	0.001 U	0.00093 U	--	0.073 U
Toluene	0.7	mg/kg	0.54 U	0.54 U	0.0091 U	0.009 U	0.15 U	0.0015 U	0.0014 U	--	0.044 J
trans-1,2-Dichloroethene	0.19	mg/kg	0.54 U	--	0.0091 U	--	0.15 U	0.0015 U	0.0014 U	--	0.11 U
trans-1,3-Dichloropropene	NE	mg/kg	0.54 U	--	0.0061 U	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	0.36 U
Trichloroethene	0.47	mg/kg	0.34 J	--	0.013	--	0.098 U	0.001 U	0.00093 U	--	0.073 U
Trichlorofluoromethane	NE	mg/kg	0.54 U	0.34 J	0.03 U	0.013	0.49 U	0.0051 U	0.0047 U	--	0.36 U
Vinyl acetate	NE	mg/kg	--	0.54 U	--	--	--	--	--	--	0.73 U
Vinyl chloride	0.02	mg/kg	0.54 U	--	0.012 U	--	0.2 U	0.002 U	0.0019 U	0.15 U	0.15 U
Xylene (total)	0.26	mg/kg	--	--	0.012 U	--	0.2 U	0.002 U	0.0019 U	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VES-1 (13.5-14')	VES-1 (13.5-14')	VES-1A (2.5-4')	VES-1A (2.5-4')	VES-1B (13-13.5')	VES-5 (3.25-4')	VES-7 (2-3')	VB-6 (13.5-14')	VB-6 (13.5-14')
	Unrestricted Use	Units	7/18/2018	7/18/2018	3/1/2014	3/1/2014	3/1/2014	3/1/2014	3/1/2014	4/16/2014	4/16/2014
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Anthracene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	0.069 J	0.11 U	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	0.079 J	0.044 U	--	--
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	0.075 J	0.044 U	--	--
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	0.08 J	0.044 U	--	--
Chrysene	1	mg/kg	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	0.039 J	0.044 U	--	--
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	--	--
Fluorene	30	mg/kg	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	0.065 J	0.13 U	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	--	--
Pyrene	100	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	0.31 U	0.15 U	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	0.13 U	0.065 U	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	0.22 U	0.11 U	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VES-1 (13.5-14')	VES-1 (13.5-14')	VES-1A (2.5-4')	VES-1A (2.5-4')	VES-1B (13-13.5')	VES-5 (3.25-4')	VES-7 (2-3')	VB-6 (13.5-14')	VB-6 (13.5-14')
	Unrestricted Use	Units	7/18/2018	7/18/2018	3/1/2014	3/1/2014	3/1/2014	3/1/2014	3/1/2014	4/16/2014	4/16/2014
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	0.13 U	0.065 U	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	0.26 U	0.13 U	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	0.089 U	0.044 U	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	0.13 U	0.065 U	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VES-1 (13.5-14')	VES-1 (13.5-14')	VES-1A (2.5-4')	VES-1A (2.5-4')	VES-1B (13-13.5')	VES-5 (3.25-4')	VES-7 (2-3')	VB-6 (13.5-14')	VB-6 (13.5-14')
	Unrestricted Use	Units	7/18/2018	7/18/2018	3/1/2014	3/1/2014	3/1/2014	3/1/2014	3/1/2014	4/16/2014	4/16/2014
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	0.00164 U	0.00162 U	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	0.00164 U	0.00162 U	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	0.00308 U	0.00303 U	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	0.00164 U	0.00162 U	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	0.00068 U	0.00067 U	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	0.00164 U	0.00162 U	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	0.0134 U	0.00202 U	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	0.00206 U	0.0131 U	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	0.00164 U	0.00162 U	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	0.00103 U	0.00101 U	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	0.00068 U	0.00067 U	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	0.00164 U	0.00162 U	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	0.00164 U	0.00162 U	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	0.00068 U	0.00067 U	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	0.00206 U	0.00202 U	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	0.00164 U	0.00162 U	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	0.00082 U	0.0008 U	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	0.00308 U	0.00303 U	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	0.00068 U	0.00067 U	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	0.00308 U	0.00303 U	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	0.0308 U	0.0303 U	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	0.00206 U	0.00202 U	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	0.0335 U	0.0332 U	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	0.0335 U	0.0332 U	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	0.0335 U	0.0332 U	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	0.0335 U	0.0332 U	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	0.0335 U	0.00766 J	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	0.0335 U	0.0332 U	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	0.0335 U	0.0332 U	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	0.0335 U	0.0332 U	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	0.0335 U	0.0332 U	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	0.0335 U	0.00766 J	--	--

TABLE 2a
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ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VES-1 (13.5-14')	VES-1 (13.5-14')	VES-1A (2.5-4')	VES-1A (2.5-4')	VES-1B (13-13.5')	VES-5 (3.25-4')	VES-7 (2-3')	VB-6 (13.5-14')	VB-6 (13.5-14')
	Unrestricted Use	Units	7/18/2018	7/18/2018	3/1/2014	3/1/2014	3/1/2014	3/1/2014	3/1/2014	4/16/2014	4/16/2014
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	7000	7000	--	--
Antimony	NE	mg/kg	--	--	--	--	--	4 U	4.1 U	--	--
Arsenic	13	mg/kg	--	--	--	--	--	4	6.6	--	--
Barium	350	mg/kg	--	--	--	--	--	38	42	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	0.17 J	0.2 J	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	0.79 U	0.82 U	--	--
Calcium	NE	mg/kg	--	--	--	--	--	41000	21000	--	--
Chromium	1	mg/kg	--	--	--	--	--	8.8	14	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	2.5	4.4	--	--
Copper	50	mg/kg	--	--	--	--	--	9.2	13	--	--
Iron	NE	mg/kg	--	--	--	--	--	6900	1200	--	--
Lead	63	mg/kg	--	--	--	--	--	12	5.2	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	3800	3500	--	--
Manganese	1600	mg/kg	--	--	--	--	--	150	170	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	0.06 J	0.07 U	--	--
Nickel	30	mg/kg	--	--	--	--	--	6.4	12	--	--
Potassium	NE	mg/kg	--	--	--	--	--	1100	1300	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	1.6 U	1.6 U	--	--
Silver	2	mg/kg	--	--	--	--	--	0.79 U	0.82 U	--	--
Sodium	NE	mg/kg	--	--	--	--	--	290	120 J	--	--
Thallium	NE	mg/kg	--	--	--	--	--	1.6 U	1.6 U	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	11	17	--	--
Zinc	109	mg/kg	--	--	--	--	--	28	28	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
- J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
- UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
- p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
- H - Sample was prepped or analyzed beyond the specified holding time.
- F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
- * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
- NE - Not established.
- ND - Not detected
- (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-6 (13.5-14')	VB-8 (0-2')	VB-9 (0-2')	VB-10 (0-2')	VB-11 (0-2')	VB-12 (0-1.5')	VB-12 (2.5-4')	VB-12 (2.5-4')	VB-12 (2.5-4')
	Unrestricted Use	Units	4/16/2014	4/17/2019	4/17/2014	4/17/2014	4/17/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	0.059 U	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	0.059 U	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	0.059 U	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	0.089 U	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	0.089 U	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	0.059 U	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
1,2,3-Trichloropropane	NE	mg/kg	0.73 U	--	--	--	--	--	--	0.59 U	0.59 U
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
1,2,4-Trimethylbenzene	3.6	mg/kg	0.89	--	--	--	--	--	--	0.3 U	0.3 U
1,2,4,5-Tetramethylbenzene	NE	mg/kg	0.42	--	--	--	--	--	--	0.014 J	0.014 J
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	0.24 U	--
1,2-Dichlorobenzene	1.1	mg/kg	0.36 U	--	--	--	--	--	--	0.3 U	0.3 U
1,2-Dichloroethane	0.02	mg/kg	0.073 U	--	--	--	--	--	0.15	0.15	0.15
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	0.21 U	--
1,3,5-Trimethylbenzene	8.4	mg/kg	0.3 J	--	--	--	--	--	--	0.3 U	0.3 U
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	0.3 U	--
1,3-Dichloropropane	NE	mg/kg	0.36 U	--	--	--	--	--	--	0.3 U	0.3 U
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	0.3 U	--
1,4-Diethylbenzene	NE	mg/kg	0.18 J	--	--	--	--	--	--	0.019 J	0.019 J
1,4-Dioxane	0.1	mg/kg	7.3 U	--	--	--	--	--	--	5.9 U	5.9 U
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
2-Butanone (MEK)	0.12	mg/kg	0.73 U	--	--	--	--	--	0.59 U	0.59 U	0.59 U
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	0.59 U	--
4-Ethyltoluene	NE	mg/kg	0.42	--	--	--	--	--	--	0.24 U	0.24 U
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	0.59 U	--
Acetone	0.05	mg/kg	0.73 U	--	--	--	--	--	0.2 J	0.2 J	0.2 J
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	0.59 U	--
Benzene	0.06	mg/kg	0.086	--	--	--	--	--	--	0.059 U	0.059 U
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	0.059 U	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	0.24 U	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	0.12 U	--
Carbon disulfide	NE	mg/kg	0.78	--	--	--	--	--	--	0.59 U	0.59 U
Carbon tetrachloride	0.76	mg/kg	0.073 U	--	--	--	--	--	4.2	4.2	4.2
Chlorobenzene	1.1	mg/kg	0.056 J	--	--	--	--	--	--	0.059 U	0.059 U
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-6 (13.5-14')	VB-8 (0-2')	VB-9 (0-2')	VB-10 (0-2')	VB-11 (0-2')	VB-12 (0-1.5')	VB-12 (2.5-4')	VB-12 (2.5-4')	VB-12 (2.5-4')
	Unrestricted Use	Units	4/16/2014	4/17/2019	4/17/2014	4/17/2014	4/17/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	0.12 U	--
Chloroform	0.37	mg/kg	0.11 U	--	--	--	--	--	0.7	0.7	0.7
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
cis-1,2-Dichloroethene	0.25	mg/kg	0.073 U	--	--	--	--	--	--	0.059 U	0.059 U
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	0.059 U	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	0.059 U	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	0.59 U	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	0.59 U	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
Ethylbenzene	1	mg/kg	0.17	--	--	--	--	--	--	0.059 U	0.059 U
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
Isopropylbenzene	NE	mg/kg	0.095	--	--	--	--	--	--	0.059 U	0.059 U
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	0.12 U	--
Methylene chloride	0.05	mg/kg	0.73 U	--	--	--	--	--	0.14 J	0.14 J	0.14 J
Naphthalene	12	mg/kg	0.88	--	--	--	--	--	--	0.12 J	0.12 J
n-Butylbenzene	12	mg/kg	0.18	--	--	--	--	--	--	0.059 U	0.059 U
n-Propylbenzene	3.9	mg/kg	0.17	--	--	--	--	--	--	0.059 U	0.059 U
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
o-Xylene	0.26	mg/kg	0.18	--	--	--	--	--	--	0.12 U	0.12 U
p/m-Xylene	0.26	mg/kg	0.16	--	--	--	--	--	--	0.12 U	0.12 U
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
p-Isopropyltoluene	NE	mg/kg	0.12	--	--	--	--	--	--	0.059 U	0.059 U
sec-Butylbenzene	11	mg/kg	0.12	--	--	--	--	--	--	0.059 U	0.059 U
Styrene	NE	mg/kg	--	--	--	--	--	--	--	0.12 U	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	0.3 U	--
Tetrachloroethene	1.3	mg/kg	0.073 U	--	--	--	--	--	4.2	4.2	4.2
Toluene	0.7	mg/kg	0.044 J	--	--	--	--	--	--	0.018 J	0.018 J
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	0.089 U	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	0.059 U	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	0.3 U	--
Trichloroethene	0.47	mg/kg	0.073 U	--	--	--	--	--	--	0.059 U	0.059 U
Trichlorofluoromethane	NE	mg/kg	0.36 U	--	--	--	--	--	--	0.3 U	0.3 U
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	0.59 U	--
Vinyl chloride	0.02	mg/kg	0.15 U	--	--	--	--	--	0.12 U	0.12 U	0.12 U
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-6 (13.5-14')	VB-8 (0-2')	VB-9 (0-2')	VB-10 (0-2')	VB-11 (0-2')	VB-12 (0-1.5')	VB-12 (2.5-4')	VB-12 (2.5-4')	VB-12 (2.5-4')
	Unrestricted Use	Units	4/16/2014	4/17/2019	4/17/2014	4/17/2014	4/17/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Anthracene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Chrysene	1	mg/kg	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	--	--
Fluorene	30	mg/kg	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	--	--
Pyrene	100	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-6 (13.5-14')	VB-8 (0-2')	VB-9 (0-2')	VB-10 (0-2')	VB-11 (0-2')	VB-12 (0-1.5')	VB-12 (2.5-4')	VB-12 (2.5-4')	VB-12 (2.5-4')
	Unrestricted Use	Units	4/16/2014	4/17/2019	4/17/2014	4/17/2014	4/17/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-6 (13.5-14')	VB-8 (0-2')	VB-9 (0-2')	VB-10 (0-2')	VB-11 (0-2')	VB-12 (0-1.5')	VB-12 (2.5-4')	VB-12 (2.5-4')	VB-12 (2.5-4')
	Unrestricted Use	Units	4/16/2014	4/17/2019	4/17/2014	4/17/2014	4/17/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	0.00194 U	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	0.00194 U	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	0.0955	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	0.00194 U	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	0.000809 U	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	0.00194 U	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	0.0158 U	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	0.00243 U	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	0.00194 U	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	0.00121 U	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	0.000809 U	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	0.00194 U	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	0.00194 U	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	0.000809 U	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	0.00194 U	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	0.000971 U	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	0.00364 U	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	0.000809 U	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	0.00364 U	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	0.0364 U	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	0.00243 U	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	0.0353 U	--	0.835 U	0.174 U	0.0364 U	--	--	--
Aroclor 1221	NE	mg/kg	--	0.0353 U	--	0.835 U	0.174 U	0.0364 U	--	--	--
Aroclor 1232	NE	mg/kg	--	0.0353 U	--	0.835 U	0.174 U	0.0364 U	--	--	--
Aroclor 1242	NE	mg/kg	--	0.0353 U	--	0.835 U	0.174 U	0.0364 U	--	--	--
Aroclor 1248	NE	mg/kg	--	0.0353 U	--	0.835 U	0.174 U	0.0364 U	--	--	--
Aroclor 1254	NE	mg/kg	--	0.375	--	7.1	1.74	0.522	--	--	--
Aroclor 1260	NE	mg/kg	--	0.0353 U	--	0.835 U	0.174 U	0.0364 U	--	--	--
Aroclor 1268	NE	mg/kg	--	0.0353 U	--	0.835 U	0.174 U	0.0364 U	--	--	--
Aroclor-1262	NE	mg/kg	--	0.0353 U	--	0.835 U	0.174 U	0.0364 U	--	--	--
Total PCBs	0.1	mg/kg	--	0.375	--	7.1	1.74	0.522	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-6 (13.5-14')	VB-8 (0-2')	VB-9 (0-2')	VB-10 (0-2')	VB-11 (0-2')	VB-12 (0-1.5')	VB-12 (2.5-4')	VB-12 (2.5-4')	VB-12 (2.5-4')
	Unrestricted Use	Units	4/16/2014	4/17/2019	4/17/2014	4/17/2014	4/17/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	--	--	--	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCS/D) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-13 (0-1.5')	VB-16 (0-1.5')	FE-SB-1 (2.5-3')	FE-SB-1 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-5 (2.5-3')
	Unrestricted Use	Units	4/17/2014	4/18/2014	7/18/2018	7/18/2018	7/18/2018	7/18/2018	7/17/2018	7/17/2018	7/18/2018
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,1,1-Trichloroethane	0.68	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	0.15 U	0.15 U	0.19 U
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,1,2-Trichloroethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,1-Dichloroethane	0.27	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,1-Dichloroethene	0.33	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	0.15 U	0.15 U	0.19 U
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,2-Dichloroethane	0.02	mg/kg	--	--	0.47	0.47	0.16 J	0.16	1.8	1.8	0.19 U
1,2-Dichloropropane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	10 U	--	9.3 U	--	7.7 U	--	9.5 U
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	1.0 U	1.0 U	0.93 U	0.93	0.77 U	0.77 U	0.95 U
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	1.0 U	--	0.93 U	--	0.77 U	--	0.95 U
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	2.0 U	--	1.9 U	--	1.5 U	--	1.9 U
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	1.0 U	--	0.93 U	--	0.77 U	--	0.95 U
Acetone	0.05	mg/kg	--	--	1.0 U	1.0 U	0.93 U	0.93	0.77 U	0.77 U	0.95 U
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	0.15 U	0.15 U	0.19 U
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Bromomethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Carbon disulfide	NE	mg/kg	--	--	0.086 J	0.086 J	0.19 U	0.19	0.15 U	0.15 U	0.19 U
Carbon tetrachloride	0.76	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	0.27	0.27	0.19 U
Chlorobenzene	1.1	mg/kg	--	--	0.20 U	0.20 U	0.077 J	0.077	0.15 U	0.15 U	0.19 U
Chlorobromomethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Chlorodibromomethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-13 (0-1.5')	VB-16 (0-1.5')	FE-SB-1 (2.5-3')	FE-SB-1 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-5 (2.5-3')
	Unrestricted Use	Units	4/17/2014	4/18/2014	7/18/2018	7/18/2018	7/18/2018	7/18/2018	7/17/2018	7/17/2018	7/18/2018
Chloroethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Chloroform	0.37	mg/kg	--	--	0.12 J	0.12 J	0.19 U	0.19	0.58	0.58	0.19 U
Chloromethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	0.15 U	0.15 U	0.19 U
cis-1,3-Dichloropropene	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Cyclohexane	NE	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	0.23	0.23	0.19 U
Dibromochloromethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	1.1	1.1	0.19 U
Ethylene Dibromide	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	0.15 U	0.15 U	0.19 U
Methyl Acetate	NE	mg/kg	--	--	1.0 U	1.0 U	0.93 U	0.93	0.77 U	0.77 U	0.95 U
Methyl cyclohexane	NE	mg/kg	--	--	0.19 J	0.19 J	0.19 U	0.19	0.68	0.68	0.18 J
Methyl tert butyl ether	0.93	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Methylene chloride	0.05	mg/kg	--	--	0.094 J	0.094 J	0.19 U	0.19	0.051 J	0.051 J	0.19 U
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	0.44	0.44	0.19 U
p/m-Xylene	0.26	mg/kg	--	--	0.084 J	0.084 J	0.19 U	0.19	3.9	3.9	0.19 U
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	0.20 U	0.20 U	0.19 U	0.19	0.15 U	0.15 U	0.19 U
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	--	92	92	25	25	45	45	67
Toluene	0.7	mg/kg	--	--	0.096 J	0.096 J	0.19 U	0.19	0.16	0.16	0.19 U
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
trans-1,3-Dichloropropene	NE	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	0.25	--	0.17 J	--	0.072 J	--	0.19 U
Trichlorofluoromethane	NE	mg/kg	--	--	0.20 U	0.25	0.19 U	0.17	0.15 U	0.072 J	0.19 U
Vinyl acetate	NE	mg/kg	--	--	--	0.20 U	--	0.19	--	0.15 U	--
Vinyl chloride	0.02	mg/kg	--	--	0.20 U	--	0.19 U	--	0.15 U	--	0.19 U
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-13 (0-1.5')	VB-16 (0-1.5')	FE-SB-1 (2.5-3')	FE-SB-1 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-5 (2.5-3')
	Unrestricted Use	Units	4/17/2014	4/18/2014	7/18/2018	7/18/2018	7/18/2018	7/18/2018	7/17/2018	7/17/2018	7/18/2018
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Anthracene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Chrysene	1	mg/kg	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	--	--
Fluorene	30	mg/kg	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	--	--
Pyrene	100	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-13 (0-1.5')	VB-16 (0-1.5')	FE-SB-1 (2.5-3')	FE-SB-1 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-5 (2.5-3')
	Unrestricted Use	Units	4/17/2014	4/18/2014	7/18/2018	7/18/2018	7/18/2018	7/18/2018	7/17/2018	7/17/2018	7/18/2018
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-13 (0-1.5')	VB-16 (0-1.5')	FE-SB-1 (2.5-3')	FE-SB-1 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-5 (2.5-3')
	Unrestricted Use	Units	4/17/2014	4/18/2014	7/18/2018	7/18/2018	7/18/2018	7/18/2018	7/17/2018	7/17/2018	7/18/2018
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	0.00179 U	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	0.00179 U	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	0.0123	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	0.00179 U	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	0.000747 U	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	0.00179 U	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	0.0146 U	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	0.00224 U	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	0.00179 U	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	0.00112 U	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	0.000747 U	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	0.00179 U	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	0.00179 U	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	0.000747 U	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	0.00179 U	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	0.000896 U	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	0.00336 U	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	0.000747 U	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	0.00336 U	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	0.0336 U	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	0.00224 U	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.0354 U	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	0.0354 U	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	0.0354 U	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	0.0354 U	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	0.0354 U	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	0.16	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	0.0354 U	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	0.0354 U	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	0.0354 U	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	0.16	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-13 (0-1.5')	VB-16 (0-1.5')	FE-SB-1 (2.5-3')	FE-SB-1 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-2 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-3 (2.5-3')	FE-SB-5 (2.5-3')
	Unrestricted Use	Units	4/17/2014	4/18/2014	7/18/2018	7/18/2018	7/18/2018	7/18/2018	7/17/2018	7/17/2018	7/18/2018
<i>Inorganics</i>											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	--	--	--	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		FE-SB-6 (0-0.5')	FE-SB-6 (1.5-2')	FE-SB-7 (8-8.5')	FE-SB-12 (5-5.5')	FE-SB-12 (5-5.5')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')
	Unrestricted Use	Units	7/17/2018	7/17/2018	7/18/2018	7/17/2018	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	0.0014 U *	0.0014 U *	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	0.00058 J	0.00058 J	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	0.028 U	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	0.022	0.022	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	0.0071 U	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	0.014 U	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	0.0071 U	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	0.11 B	0.11 B	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	0.011	0.011	0.0188	--	--	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		FE-SB-6 (0-0.5')	FE-SB-6 (1.5-2')	FE-SB-7 (8-8.5')	FE-SB-12 (5-5.5')	FE-SB-12 (5-5.5')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')
	Unrestricted Use	Units	7/17/2018	7/17/2018	7/18/2018	7/17/2018	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006
Chloroethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	0.00046 J	0.00046 J	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	0.0071 U	0.0071 U	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	--	0.0018 B	0.0018 B	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	--	--	0.00020 J	0.00020 J	0.0038 J	--	--	--
Toluene	0.7	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	0.0011	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	0.0014 U	0.0014 U	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	0.0014 U	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	0.0014 U	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		FE-SB-6 (0-0.5')	FE-SB-6 (1.5-2')	FE-SB-7 (8-8.5')	FE-SB-12 (5-5.5')	FE-SB-12 (5-5.5')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')
	Unrestricted Use	Units	7/17/2018	7/17/2018	7/18/2018	7/17/2018	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	0.0899	0.0848	1.59 J	0.306 J
Acenaphthylene	100	mg/kg	--	--	--	--	--	0.0544 J	0.0825	--	0.355 J
Anthracene	100	mg/kg	--	--	--	--	--	0.21	0.303	4.59	1.06
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	0.603	1.24	15.4	4.95
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	0.525	1.39	14.5	5.73
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	0.626	1.33	12.8	5.62
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	0.185	0.506	5.24	2.67
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	0.701	1.34	15.4	4.9
Chrysene	1	mg/kg	--	--	--	--	--	0.629	1.22	14.9	4.83
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	0.0809	0.166	2.1	0.802
Fluoranthene	100	mg/kg	--	--	--	--	--	1.09	2	30.6	8.06
Fluorene	30	mg/kg	--	--	--	--	--	0.0884	0.0735 J	1.04 J	0.207 J
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	0.201	0.506	5.05	2.53
Naphthalene	12	mg/kg	--	--	--	--	--	0.0501 J	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	0.714	0.895	14.1	3.16
Pyrene	100	mg/kg	--	--	--	--	--	1.21	2.53	31.3	9.55
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		FE-SB-6 (0-0.5')	FE-SB-6 (1.5-2')	FE-SB-7 (8-8.5')	FE-SB-12 (5-5.5')	FE-SB-12 (5-5.5')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')
	Unrestricted Use	Units	7/17/2018	7/17/2018	7/18/2018	7/17/2018	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	0.684	0.0512 J	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	0.341	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	0.218	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		FE-SB-6 (0-0.5')	FE-SB-6 (1.5-2')	FE-SB-7 (8-8.5')	FE-SB-12 (5-5.5')	FE-SB-12 (5-5.5')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')
	Unrestricted Use	Units	7/17/2018	7/17/2018	7/18/2018	7/17/2018	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	0.0121	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	0.0044	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	0.0535	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.089 U	0.18 U	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	0.089 U	0.18 U	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	0.089 U	0.18 U	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	0.089 U	0.18 U	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	0.089 U	0.18 U	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	0.98	3.0	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	0.089 U	0.18 U	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	0.089 U	0.18 U	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	0.089 U	0.18 U	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	0.98	3.0	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		FE-SB-6 (0-0.5')	FE-SB-6 (1.5-2')	FE-SB-7 (8-8.5')	FE-SB-12 (5-5.5')	FE-SB-12 (5-5.5')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')
	Unrestricted Use	Units	7/17/2018	7/17/2018	7/18/2018	7/17/2018	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	2.6	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	11.4	2.5	4.8	3.7
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	1.7	0.55	3.2	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	31.6	23	22.6	20.7
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	--	--	--	--	100	23.8	27	25.1
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	78.5	--	--	10200	28.1	145	29.3
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	0.74	0.11	1.5	0.065
Nickel	30	mg/kg	--	--	--	--	--	44	16.3	14.4	15.7
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	287	81.5	216	65.4
Cyanide	27	mg/kg	--	--	--	--	--	--	--	0.41	--

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-1	SS-1	SS-2	SS-2	SS-2 (DUP)	SS-3	SS-3 (DUP)	SS-4	SS-8
	Unrestricted Use	Units	0-2" 7/1/2019	3.5-4' 7/1/2019	0-2" 7/1/2019	4-4.5' 7/2/2019	4-4.5' 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	0.00024 U	--	0.00022 U	0.00023 U	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	0.00022 U	--	0.00021 U	0.00021 U	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	0.00031 U	--	0.00029 U	0.0003 U	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	0.00018 U	--	0.00017 U	0.00018 U	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	0.00021 U	--	0.0002 U	0.0002 U	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	0.00023 U	--	0.00022 U	0.00022 U	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	0.00019 U	--	0.00017 U	0.00018 U	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	0.00037 U	--	0.00034 U	0.00035 U	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	0.00048 U	--	0.00044 U	0.00045 U	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	0.00015 U	--	0.00014 U	0.00014 U	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	--	0.00031 U	--	0.00029 U	0.00029 U	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	0.00044 U	--	0.00041 U	0.00042 U	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	0.00016 U	--	0.00015 U	0.00016 U	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	0.00023 U	--	0.00022 U	0.00022 U	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	0.0095 U	--	0.0088 U	0.0091 U	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	0.0028 U	--	0.0026 U	0.0027 U	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	0.0018 U	--	0.0016 U	0.0017 U	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	0.0016 U	--	0.0015 U	0.0015 U	--	--	--	--
Acetone	0.05	mg/kg	--	0.016	--	0.012	0.011	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	0.00027 U	--	0.00025 U	0.00026 U	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	0.00044 U	--	0.00041 U	0.00042 U	--	--	--	--
Bromomethane	NE	mg/kg	--	0.00049 U	--	0.00046 U	0.00047 U	--	--	--	--
Carbon disulfide	NE	mg/kg	--	0.00028 U	--	0.00026 U	0.00026 U	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	--	0.0004 U	--	0.00037 U	0.00038 U	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	0.00018 U	--	0.00017 U	0.00018 U	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	0.00029 U	--	0.00027 U	0.00028 U	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	0.0002 U	--	0.00019 U	0.00019 U	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-1	SS-1	SS-2	SS-2	SS-2 (DUP)	SS-3	SS-3 (DUP)	SS-4	SS-8
	Unrestricted Use	Units	0-2" 7/1/2019	3.5-4' 7/1/2019	0-2" 7/1/2019	4-4.5' 7/2/2019	4-4.5' 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019
Chloroethane	NE	mg/kg	--	0.00054 U	--	0.0005 U	0.00052 U	--	--	--	--
Chloroform	0.37	mg/kg	--	0.00033 U	--	0.00031 U	0.00032 U	--	--	--	--
Chloromethane	NE	mg/kg	--	0.00045 U	--	0.00042 U	0.00043 U	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	0.00016 U	--	0.00015 U	0.00015 U	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	0.00028 U	--	0.00026 U	0.00027 U	--	--	--	--
Cyclohexane	NE	mg/kg	--	0.00023 U	--	0.00021 U	0.00022 U	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	0.00027 U	--	0.00025 U	0.00025 U	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	0.00035 U	--	0.00033 U	0.00033 U	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	0.00021 U	--	0.00019 U	0.0002 U	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	0.00019 U	--	0.00017 U	0.00018 U	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	0.00013 U	--	0.00012 U	0.00012 U	--	--	--	--
Methyl Acetate	NE	mg/kg	--	0.0044 U	--	0.0041 U	0.0043 U	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	0.00052 U	--	0.00048 U	0.00049 U	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	0.00013 U	--	0.00012 U	0.00012 U	--	--	--	--
Methylene chloride	0.05	mg/kg	--	0.0034	--	0.0034	0.0041	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	0.0002 U	--	0.00019 U	0.00019 U	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	0.00018 U	--	0.00017 U	0.00017 U	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	0.00029 U	--	0.00027 U	0.00027 U	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	0.00078 J	--	0.00014 U	0.00014 U	--	--	--	--
Toluene	0.7	mg/kg	--	0.00024 U	--	0.00023 U	0.00067 J	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	0.00025 U	--	0.00024 U	0.00024 U	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	0.00028 U	--	0.00026 U	0.00026 U	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	0.00015 U	--	0.00014 U	0.00014 U	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	0.00042 U	--	0.00039 U	0.0004 U	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	0.00056 U	--	0.00053 U	0.00054 U	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-1	SS-1	SS-2	SS-2	SS-2 (DUP)	SS-3	SS-3 (DUP)	SS-4	SS-8
	Unrestricted Use	Units	0-2" 7/1/2019	3.5-4' 7/1/2019	0-2" 7/1/2019	4-4.5' 7/2/2019	4-4.5' 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	0.028 U	0.027 U	0.027 U	0.025 U	0.025 U	0.063 J	0.056 J	0.63	0.035 J
Acenaphthylene	100	mg/kg	0.056 J	0.022 J	0.086 J	0.0036 U	0.0035 U	0.16 J	0.089 J	0.1 J F1	0.071 J
Anthracene	100	mg/kg	0.051 J	0.033 J	0.11 J	0.0038 U	0.0038 U	0.28 J	0.24 J	1.5 F1	0.14 J
Benz(a)anthracene	1	mg/kg	0.33	0.22	0.66	0.012 U	0.012 U	1.1	0.89	4.3 F1	0.54
Benzo(a)pyrene	1	mg/kg	0.34	0.24	0.75	0.022 J	0.012 J	0.73	0.64	3.8 F1	0.41
Benzo(b)fluoranthene	1	mg/kg	0.59	0.31	1	0.031 J	0.014 J	1.4	1.3	5.7 F1	0.77
Benzo(g,h,i)perylene	100	mg/kg	0.21 J	0.13 J	0.41	0.01 U	0.01 U	0.25 J	0.22 J	1.7	0.16 J
Benzo(k)fluoranthene	0.8	mg/kg	0.21	0.1	0.37	0.011 J	0.0067 U	0.51	0.59	2	0.35
Chrysene	1	mg/kg	0.36 J	0.19 J	0.61	0.021 J	0.0058 U	1.1	0.95	4.1 F1	0.57
Dibenz(a,h)anthracene	0.33	mg/kg	0.04	0.03 J	0.089	0.015 U	0.015 U	0.14	0.1	0.58 F1	0.069
Fluoranthene	100	mg/kg	0.52	0.33 J	1.1	0.033 J	0.015 J	1.5	1.4	8.7 F1	0.87
Fluorene	30	mg/kg	0.0052 U	0.0051 U	0.024 J	0.0047 U	0.0047 U	0.15 J	0.11 J	0.57	0.053 J
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.3	0.15	0.51	0.016 J	0.013 U	0.42	0.35	2.1	0.24
Naphthalene	12	mg/kg	0.019 J	0.0065 U	0.026 J	0.006 U	0.031 J	0.43	0.31 J	0.15 J F1	0.072 J
Phenanthrene	100	mg/kg	0.15 J	0.099 J	0.38	0.006 U	0.006 U	1.3	1.1	5.4 F1	0.52
Pyrene	100	mg/kg	0.53	0.38	1.1	0.037 J	0.02 J	1	0.99	6.7 F1	0.67
2-Methylnaphthalene	NE	mg/kg	0.0048 U	0.0047 U	0.0087 J	0.0043 U	0.012 J	0.71	0.54	0.15 J F1	0.14 J
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	0.0051 U	0.005 U	0.0049 U	0.0046 U	0.0046 U	0.079 J	0.1 J	0.034 J F1	0.005 U
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	0.005 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.005 U	0.0052 U	0.0054 U F1	0.0049 U
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	0.011 U	0.01 U	0.01 U	0.0095 U	0.0095 U	0.011 U	0.011 U	0.011 U F1	0.01 U
2,2'-oxybis[1-chloropropane]	NE	mg/kg	0.0069 U	0.0068 U	0.0067 U	0.0062 U	0.0062 U	0.0069 U	0.0071 U	0.0074 U	0.0068 U
2,3,4,6-Tetrachlorophenol	NE	mg/kg	0.026 U	0.025 U	0.025 U	0.023 U	0.023 U	0.026 U	0.027 U	0.028 U F1	0.025 U
2,4,5-Trichlorophenol	NE	mg/kg	0.013 U	0.012 U	0.012 U	0.011 U	0.011 U	0.013 U	0.013 U	0.013 U F1	0.012 U
2,4,6-Trichlorophenol	NE	mg/kg	0.019 U	0.019 U	0.019 U	0.017 U	0.017 U	0.019 U	0.02 U	0.021 U F1	0.019 U
2,4-Dichlorophenol	NE	mg/kg	0.0081 U	0.0079 U	0.0078 U	0.0073 U	0.0072 U	0.0081 U	0.0083 U	0.0086 U F1	0.0079 U
2,4-Dimethylphenol	NE	mg/kg	0.017 U	0.017 U	0.016 U	0.015 U	0.015 U	0.017 U	0.017 U	0.018 U F1	0.016 U
2,4-Dinitrophenol	NE	mg/kg	0.19 U	0.18 U	0.18 U	0.17 U	0.17 U	0.19 U	0.19 U	0.2 U F1	0.18 U
2,4-Dinitrotoluene	NE	mg/kg	0.019 U	0.019 U	0.019 U	0.017 U	0.017 U	0.019 U	0.02 U	0.021 U F1	0.019 U
2,6-Dinitrotoluene	NE	mg/kg	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.013 U	0.013 U F1	0.012 U
2-Chloronaphthalene	NE	mg/kg	0.018 U	0.017 U	0.017 U	0.016 U	0.016 U	0.018 U	0.018 U	0.019 U F1	0.017 U
2-Chlorophenol	NE	mg/kg	0.0054 U	0.0053 U	0.0052 U	0.0048 U	0.0048 U	0.0054 U	0.0055 U	0.0057 U F1	0.0052 U
2-Methylphenol	0.33	mg/kg	0.0062 U	0.0061 U	0.006 U	0.0056 U	0.0055 U	0.0062 U	0.0064 U	0.0066 U F1	0.006 U
2-Nitroaniline	NE	mg/kg	0.014 U	0.014 U *	0.014 U	0.013 U *	0.013 U *	0.014 U *	0.015 U *	0.015 U *	0.014 U *
2-Nitrophenol	NE	mg/kg	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.013 U	0.013 U F1	0.012 U
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	0.058 U *	0.057 U	0.056 U *	0.052 U	0.052 U	0.058 U	0.06 U	0.062 U F1	0.057 U
3-Nitroaniline	NE	mg/kg	0.021 U	0.02 U	0.02 U	0.019 U	0.019 U	0.021 U	0.021 U	0.022 U	0.02 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-1	SS-1	SS-2	SS-2	SS-2 (DUP)	SS-3	SS-3 (DUP)	SS-4	SS-8
	Unrestricted Use	Units	0-2" 7/1/2019	3.5-4' 7/1/2019	0-2" 7/1/2019	4-4.5' 7/2/2019	4-4.5' 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019
4,6-Dinitro-o-cresol	NE	mg/kg	0.062 U	0.061 U	0.06 U	0.056 U	0.056 U	0.062 U	0.064 U	0.066 U F1	0.061 U
4-Bromophenyl phenyl ether	NE	mg/kg	0.005 U	0.0049 U	0.0048 U	0.0045 U	0.0044 U	0.005 U	0.0051 U	0.0053 U F1	0.0048 U
4-Chloro-3-methyl phenol	NE	mg/kg	0.0064 U	0.0063 U *	0.0062 U	0.0057 U *	0.0057 U *	0.0064 U *	0.0066 U *	0.0068 U *	0.0062 U *
4-Chloroaniline	NE	mg/kg	0.027 U	0.026 U	0.026 U	0.024 U	0.024 U	0.027 U	0.028 U	0.029 U	0.026 U
4-Chlorophenyl phenyl ether	NE	mg/kg	0.0061 U	0.0059 U	0.0058 U	0.0054 U	0.0054 U	0.0061 U	0.0062 U	0.0064 U F1	0.0059 U
4-Methylphenol	0.33	mg/kg	0.0065 U	0.0064 U	0.0063 U	0.0059 U	0.0058 U	0.024 J	0.014 J	0.007 U F1	0.017 J
4-Nitroaniline	NE	mg/kg	0.014 U	0.014 U	0.014 U	0.013 U	0.013 U	0.014 U	0.015 U	0.015 U F1	0.014 U
4-Nitrophenol	NE	mg/kg	0.063 U	0.061 U	0.06 U	0.056 U	0.056 U	0.063 U	0.064 U	0.067 U	0.061 U
Acetophenone	NE	mg/kg	0.0062 U	0.0061 U	0.006 U	0.0056 U	0.0055 U	0.085 J	0.076 J	0.055 J F1	0.027 J
Atrazine	NE	mg/kg	0.0097 U *	0.0095 U *	0.0093 U *	0.0087 U *	0.0087 U *	0.0097 U *	0.0099 U *	0.01 U * I	0.0094 U *
Benzaldehyde	NE	mg/kg	0.017 U	0.016 U	0.016 U	0.015 U	0.015 U	0.017 U	0.017 U	0.044 J	0.034 J
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	0.013 U	0.013 U	0.013 U	0.012 U	0.012 U	0.013 U	0.014 U	0.014 U F1	0.013 U
bis(2-Chloroethyl)ether	NE	mg/kg	0.0046 U	0.0045 U	0.0045 U	0.0042 U	0.0041 U	0.0046 U	0.0048 U	0.0049 U F1	0.0045 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.022 J	0.02 U	0.031 J	0.018 U	0.018 U	0.035 J	0.043 J	0.17 J F1	0.029 J
Butyl benzyl phthalate	NE	mg/kg	0.021 J	0.018 U	0.022 J	0.016 U	0.016 U	0.034 J	0.018 U	0.11 J F1	0.018 U
Caprolactam	NE	mg/kg	0.023 U	0.023 U	0.022 U	0.021 U	0.021 U	0.023 U	0.024 U	0.024 U F1	0.022 U
Carbazole	NE	mg/kg	0.023 J	0.0044 U	0.052 J	0.004 U	0.004 U	0.16 J	0.13 J	0.75	0.071 J
Dibenzofuran	7	mg/kg	0.0054 U	0.0053 U	0.017 J	0.0048 U	0.0048 U	0.24 J	0.31 J	0.33 J F1	0.061 J
Diethyl phthalate	NE	mg/kg	0.0056 U	0.0055 U	0.0054 U	0.005 U	0.005 U	0.0056 U	0.0057 U	0.0059 U F1	0.0054 U
Dimethyl phthalate	NE	mg/kg	0.0046 U	0.0045 U	0.0045 U	0.0042 U	0.0041 U	0.0046 U	0.0048 U	0.0049 U F1	0.0045 U
Di-n-butyl phthalate	NE	mg/kg	0.068 U	0.066 U	0.065 U	0.061 U	0.061 U	0.068 U	0.07 U	0.072 U F1	0.066 U
Di-n-octyl phthalate	NE	mg/kg	0.02 U	0.02 U	0.02 U	0.018 U	0.018 U	0.02 U	0.021 U	0.022 U	0.02 U
Hexachlorobenzene	0.33	mg/kg	0.0056 U	0.0055 U	0.0054 U	0.005 U	0.005 U	0.0056 U	0.0058 U	0.006 U F1	0.0055 U
Hexachlorobutadiene	NE	mg/kg	0.0082 U	0.008 U	0.0079 U	0.0073 U	0.0073 U	0.0082 U	0.0084 U	0.0087 U F1	0.008 U
Hexachlorocyclopentadiene	NE	mg/kg	0.034 U	0.033 U	0.032 U	0.03 U	0.03 U	0.034 U	0.035 U	0.036 U F1	0.033 U
Hexachloroethane	NE	mg/kg	0.0079 J	0.0058 U	0.0057 U	0.0053 U	0.0053 U	0.0059 U	0.0061 U	0.0063 U F1	0.0058 U
Isophorone	NE	mg/kg	0.01 U	0.0099 U	0.0097 U	0.0091 U	0.009 U	0.01 U	0.01 U	0.011 U F1	0.0098 U
Nitrobenzene	NE	mg/kg	0.0092 U	0.009 U	0.0089 U	0.0083 U	0.0082 U	0.0092 U	0.0095 U	0.0098 U F1	0.009 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	0.0061 U	0.006 U	0.0059 U	0.0055 U	0.0055 U	0.0061 U	0.0063 U	0.0065 U	0.006 U
N-Nitrosodiphenylamine	NE	mg/kg	0.0073 U	0.0072 U	0.0071 U	0.0066 U	0.0066 U	0.0073 U	0.0075 U	0.0078 U F1	0.0072 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	0.079 U	0.077 U	0.076 U	0.071 U	0.07 U	0.079 U	0.081 U	0.084 U F1	0.077 U
Phenol	0.33	mg/kg	0.0057 U	0.0056 U *	0.0055 U	0.0051 U *	0.0051 U *	0.0057 U *	0.0058 U *	0.0061 U *	0.0055 U *

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-1	SS-1	SS-2	SS-2	SS-2 (DUP)	SS-3	SS-3 (DUP)	SS-4	SS-8
	Unrestricted Use	Units	0-2" 7/1/2019	3.5-4' 7/1/2019	0-2" 7/1/2019	4-4.5' 7/2/2019	4-4.5' 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	0.0013 U	0.0013 U	0.0013 U	0.0012 U	0.0012 U	0.025 J	0.014 J	0.0014 U F1	0.0013 U
4,4'-DDE	0.0033	mg/kg	0.00092 U	0.0009 U	0.00089 U	0.00082 U	0.00082 U	0.0046 U	0.19	0.089 F1	0.0009 U
4-4'-DDT	0.0033	mg/kg	0.0014 U	0.0014 U	0.0053 J	0.0013 U	0.0013 U	0.17	0.21	0.14 F1	0.044
Aldrin	0.005	mg/kg	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0059 U	0.006 U	0.0013 U	0.0011 U
alpha-BHC	0.02	mg/kg	0.00079 U	0.00078 U	0.00076 U	0.00071 U	0.00071 U	0.014	0.0041 U	0.0032 F1	0.00077 U
beta-BHC	0.036	mg/kg	0.00087 U	0.00086 U	0.00084 U	0.00078 U	0.00078 U	0.012	0.0045 U	0.00093 U	0.00085 U
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	0.019 U	0.018 U	0.018 U	0.017 U	0.017 U	0.094 U	0.097 U	0.02 U	0.018 U
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	0.00048 U	0.00047 U	0.00046 U	0.00043 U	0.00043 U	0.0024 U	0.0024 U	0.00051 U	0.00047 U
Dieldrin	0.005	mg/kg	0.001 U	0.00099 U	0.00098 U	0.00091 U	0.00091 U	0.005 U	0.44	0.11 F1	0.00099 U
Endosulfan sulfate	2.4	mg/kg	0.00097 U	0.00096 U	0.00094 U	0.00087 U	0.00087 U	0.0049 U	0.005 U	0.001 U	0.00096 U
Endosulfan-I	2.4	mg/kg	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0059 U	0.0061 U	0.0013 U	0.0012 U
Endosulfan-II	2.4	mg/kg	0.002 U	0.002 U	0.0019 U	0.0018 U	0.0018 U	0.01 U	0.01 U	0.0021 U F1	0.002 U
Endrin	0.014	mg/kg	0.0011 U	0.0011 U	0.0011 U	0.001 U	0.001 U	0.0056 U	0.0057 U	0.0012 U	0.0011 U
Endrin aldehyde	NE	mg/kg	0.0018 U	0.0018 U	0.0018 U	0.0016 U	0.0016 U	0.0092 U	0.0094 U	0.002 U	0.0018 U
Endrin ketone	NE	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0014 U	0.0014 U	0.0075 U	0.032 J	0.0016 U F1	0.0015 U
gamma-BHC (Lindane)	NE	mg/kg	0.00072 U	0.00071 U	0.0007 U	0.00065 U	0.00065 U	0.022	0.0037 U	0.00077 U	0.00071 U
Heptachlor	0.042	mg/kg	0.00092 U	0.0009 U	0.00089 U	0.00082 U	0.00082 U	0.0046 U	0.0047 U	0.00098 U	0.0009 U
Heptachlor epoxide	NE	mg/kg	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.001 U	0.0058 U	0.006 U	0.0012 U	0.0011 U
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.0018 U	0.0017 U	0.0017 U	0.0016 U	0.0016 U	0.0089 U	0.0091 U	0.0019 U	0.0017 U
Toxaphene	NE	mg/kg	0.028 U	0.028 U	0.027 U	0.025 U	0.025 U	0.14 U	0.14 U	0.03 U	0.028 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.01 U	0.01 U	0.01 U	0.0093 U	0.000093 U	0.01 U	0.011 U	0.011 U	0.01 U
Aroclor 1221	NE	mg/kg	0.01 U	0.01 U	0.01 U	0.0093 U	0.000093 U	0.01 U	0.011 U	0.011 U	0.01 U
Aroclor 1232	NE	mg/kg	0.01 U	0.01 U	0.01 U	0.0093 U	0.000093 U	0.01 U	0.011 U	0.011 U	0.01 U
Aroclor 1242	NE	mg/kg	0.01 U	0.01 U	0.01 U	0.0093 U	0.000093 U	0.01 U	0.011 U	0.011 U	0.01 U
Aroclor 1248	NE	mg/kg	0.01 U	0.01 U	0.01 U	0.0093 U	0.000093 U	0.01 U	0.011 U	0.011 U	0.01 U
Aroclor 1254	NE	mg/kg	0.011 U	0.01 U	0.01 U	0.0096 U	0.000096 U	0.011 U	0.011 U	0.011 U	0.51
Aroclor 1260	NE	mg/kg	0.011 U	0.01 U	0.01 U	0.0096 U	0.000096 U	0.011 U	0.011 U	0.011 U	0.01 U
Aroclor 1268	NE	mg/kg	0.011 U	0.01 U	0.01 U	0.0096 U	0.000096 U	0.011 U	0.011 U	0.011 U	0.01 U
Aroclor-1262	NE	mg/kg	0.011 U	0.01 U	0.01 U	0.0096 U	0.000096 U	0.011 U	0.011 U	0.011 U	0.01 U
Total PCBs	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.51	0.51

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-1	SS-1	SS-2	SS-2	SS-2 (DUP)	SS-3	SS-3 (DUP)	SS-4	SS-8
	Unrestricted Use	Units	0-2" 7/1/2019	3.5-4' 7/1/2019	0-2" 7/1/2019	4-4.5' 7/2/2019	4-4.5' 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019
Inorganics											
Aluminum	NE	mg/kg	9350	9570	10100	7680	7140	3990	4880	7530	9750
Antimony	NE	mg/kg	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.3 U F1	1.1 U
Arsenic	13	mg/kg	3.3	4.2	4.5	1.6 J	1.4 J	26.3	27.5	8.1	7.5
Barium	350	mg/kg	52.2	62	59.8	45.9	51.1	210	228	142	138
Beryllium	7.2	mg/kg	0.4 J	0.42	0.43	0.32 J	0.34 J	0.37 J	0.39 J	0.39 J	0.46
Cadmium	2.5	mg/kg	0.15 U	0.14 U	0.14 U	0.14 U	0.13 U	0.15 U	0.16 U	1.6	0.14 U
Calcium	NE	mg/kg	1910	23800	2580	1240	1160	4600	5550	25400	3720
Chromium	1	mg/kg	18.9	22.8	22.3	21.7	17.3	18.1	22.6	31.9	30.5
Cobalt	NE	mg/kg	5.5 J	4.9 J	5.7 J	6.1 J	5.5 J	3.8 J	4.7 J	4.8 J	8.9 J
Copper	50	mg/kg	18.8	21	22.1	15.8	14.5	190	46.7	43.9	37.6
Iron	NE	mg/kg	14400	14700	16200	14300	14000	16700	19900	18500	22000
Lead	63	mg/kg	43.8	18.6	65.8	6.2	4.7	54.7	64.8	75.2	52.3
Magnesium	NE	mg/kg	3560	5100	3610	3760	3510	2140	2430	6160 F1	4390
Manganese	1600	mg/kg	223	222	250	334	315	148	189	228	316
Mercury	0.18	mg/kg	0.091	0.17	0.15	0.0096	0.01 U	0.6	0.76	0.8	0.2
Nickel	30	mg/kg	18.7	18.2	16.9	16.3	14	15.5	18.6	20.2	25.7
Potassium	NE	mg/kg	1470	3110	1270	1660	1630	1430	1690	1620	2620
Selenium	3.9	mg/kg	2.6 U	2.5 U	2.5 U	2.5 U	2.4 U	2.6 U	2.8 U	2.9 U	2.5 U
Silver	2	mg/kg	0.21 U	0.2 U	0.2 U	0.19 U	0.19 U	0.36 J	0.23 J	0.23 U	0.2 U
Sodium	NE	mg/kg	87.3 U	297 J	84.9 U	82.9 U	79.6 U	176 J	189 J	223 J	124 J
Thallium	NE	mg/kg	0.69 U	0.67 U	0.67 U	0.66 U	0.63 U	0.7 U	0.74 U	0.77 U	0.68 U
Vanadium	NE	mg/kg	24.6	25.6	26	21	20.1	20.5	23.4	31.1	28.8
Zinc	109	mg/kg	65.4	83.4	98.5	37.1	31.8	79.5	97.5	382	90.2
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-9	SS-10	SS-10	SS-11	SS-12	SS-12	SS-13	SS-13	SS-14
	Unrestricted Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 7/2/2019	0-2" 7/1/2019	4-5' 7/1/2019	0-2" 7/2/2019	4-5' 7/2/2019	0-2" 7/2/2019
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	0.0003 U F1	--	0.00024 U	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	0.00028 U F1	--	0.00022 U	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	0.00039 U F1	--	0.00031 U	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	0.00023 U F1	--	0.00019 U	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	0.00027 U F1	--	0.00021 U	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	0.00029 U F1	--	0.00023 U	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	0.00024 U F1	--	0.00019 U	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	0.00047 U F1	--	0.00037 U	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	0.0006 U F1	--	0.00048 U	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	0.00019 U F1	--	0.00015 U	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	0.00039 U F1	--	0.00031 U	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	0.00055 U F1	--	0.00044 U	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	0.00021 U F1	--	0.00017 U	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	0.00029 U F1	--	0.00023 U	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	0.012 U	--	0.0096 U	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	0.0035 U	--	0.0028 U	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	0.0022 U F1	--	0.0018 U	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	0.002 U F1	--	0.0016 U	--
Acetone	0.05	mg/kg	--	--	--	--	--	0.1 F1 F	--	0.032	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	0.00034 U F1	--	0.00027 U	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	0.00056 U	--	0.00044 U	--
Bromomethane	NE	mg/kg	--	--	--	--	--	0.00062 U	--	0.00049 U	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	0.00035 U F1	--	0.00028 U	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	0.00051 U F1	--	0.0004 U	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	0.00023 U F1	--	0.00018 U	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	0.00037 U F1	--	0.00029 U	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	0.00025 U F1	--	0.0002 U	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-9	SS-10	SS-10	SS-11	SS-12	SS-12	SS-13	SS-13	SS-14
	Unrestricted Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 7/2/2019	0-2" 7/1/2019	4-5' 7/1/2019	0-2" 7/2/2019	4-5' 7/2/2019	0-2" 7/2/2019
Chloroethane	NE	mg/kg	--	--	--	--	--	0.00068 U	--	0.00054 U	--
Chloroform	0.37	mg/kg	--	--	--	--	--	0.00042 U F1	--	0.00033 U	--
Chloromethane	NE	mg/kg	--	--	--	--	--	0.00057 U	--	0.00045 U	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	--	--	0.0002 U F1	--	0.00016 U	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	0.00036 U F1	--	0.00028 U	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	0.00029 U	--	0.00023 U	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	0.00034 U F1	--	0.00027 U	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	0.00044 U F1	--	0.00035 U	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	0.00026 U F1	--	0.00021 U	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	0.00024 U F1	--	0.00019 U	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	0.00016 U F1	--	0.00013 U	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	0.0056 U	--	0.0045 U	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	0.00065 U F1	--	0.00052 U	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	0.00016 U F1	--	0.00013 U	--
Methylene chloride	0.05	mg/kg	--	--	--	--	--	0.0014 F1	--	0.004	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	0.00025 U F1	--	0.0002 U	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	0.00023 U F1	--	0.00018 U	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	0.00036 U F1	--	0.00029 U	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	--	--	--	--	0.00019 U F1	--	0.00025 J	--
Toluene	0.7	mg/kg	--	--	--	--	--	0.00031 U F1	--	0.00024 U	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	0.00032 U F1	--	0.00026 U	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	0.00035 U F1	--	0.00028 U	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	--	--	0.00019 U F1	--	0.00015 U	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	0.00053 U	--	0.00042 U	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	0.00071 U	--	0.00057 U	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-9	SS-10	SS-10	SS-11	SS-12	SS-12	SS-13	SS-13	SS-14
	Unrestricted Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 7/2/2019	0-2" 7/1/2019	4-5' 7/1/2019	0-2" 7/2/2019	4-5' 7/2/2019	0-2" 7/2/2019
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	0.027 U	0.026 U	--	0.15 J	0.049 U	0.035 U	0.03 U	0.031 U	0.081 J
Acenaphthylene	100	mg/kg	0.03 J	0.0037 U	--	0.19 J	0.058 J	0.005 U	0.055 J	0.0043 U	0.13 J
Anthracene	100	mg/kg	0.071 J	0.041 J	--	0.57	0.086 J	0.0054 U	0.061 J	0.0047 U	0.26 J
Benz(a)anthracene	1	mg/kg	0.31	0.17	--	2	0.47	0.049	0.42	0.015 U	1.9
Benzo(a)pyrene	1	mg/kg	0.23	0.16	--	1.6	0.48	0.031 J	0.43	0.011 U	2
Benzo(b)fluoranthene	1	mg/kg	0.52	0.22	--	2.6	0.88	0.057	0.71	0.011 U	2.7
Benzo(g,h,i)perylene	100	mg/kg	0.11 J	0.08 J	--	0.71	0.37 J	0.026 J	0.24 J	0.012 U	0.88
Benzo(k)fluoranthene	0.8	mg/kg	0.18	0.12	--	0.94	0.29	0.025 J F1	0.26	0.0082 U	0.93
Chrysene	1	mg/kg	0.33 J	0.19 J	--	2	0.63 J	0.048 J	0.54	0.0071 U	1.9
Dibenz(a,h)anthracene	0.33	mg/kg	0.034 J	0.025 J	--	0.24	0.056 J	0.021 U	0.073	0.018 U	0.35
Fluoranthene	100	mg/kg	0.46	0.31 J	--	4.1	1.1	0.085 J	0.95	0.0055 U	3
Fluorene	30	mg/kg	0.017 J	0.012 J	--	0.15 J	0.044 J	0.0066 U	0.027 J	0.0057 U	0.12 J
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.15	0.092	--	0.83	0.41	0.023 J	0.28	0.016 U	1.1
Naphthalene	12	mg/kg	0.067 J	0.0062 U	--	0.073 J	0.039 J	0.0084 U F1	0.024 J	0.0073 U	0.072 J
Phenanthrene	100	mg/kg	0.25 J	0.2 J	--	2.6	0.44 J	0.043 J	0.39 J	0.0074 U	0.75
Pyrene	100	mg/kg	0.35 J	0.27 J	--	3.1	0.99	0.078 J	0.82	0.01 U	3.1
2-Methylnaphthalene	NE	mg/kg	0.079 J	0.01 J	--	0.056 J	0.037 J	0.0061 U	0.024 J	0.0052 U	0.043 J
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	0.005 U	0.0048 U	--	0.005 U	0.0089 U	0.0065 U	0.0054 U	0.0056 U	0.0048 U
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	0.0049 U	0.0047 U	--	0.0049 U	0.0088 U	0.0064 U	0.0053 U	0.0055 U	0.0047 U
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	0.01 U	0.0099 U	--	0.01 U	0.018 U	0.013 U	0.011 U	0.012 U	0.01 U
2,2'-oxybis[1-chloropropane]	NE	mg/kg	0.0068 U	0.0065 U	--	0.0068 U	0.012 U	0.0088 U	0.0074 U	0.0076 U	0.0065 U
2,3,4,6-Tetrachlorophenol	NE	mg/kg	0.025 U	0.024 U	--	0.025 U	0.045 U	0.033 U	0.028 U	0.028 U	0.024 U
2,4,5-Trichlorophenol	NE	mg/kg	0.012 U	0.012 U	--	0.012 U	0.022 U	0.016 U	0.013 U	0.014 U	0.012 U
2,4,6-Trichlorophenol	NE	mg/kg	0.019 U	0.018 U	--	0.019 U	0.034 U	0.025 U	0.021 U	0.021 U	0.018 U
2,4-Dichlorophenol	NE	mg/kg	0.0079 U	0.0076 U	--	0.0079 U	0.014 U	0.01 U	0.0086 U	0.0089 U	0.0076 U
2,4-Dimethylphenol	NE	mg/kg	0.016 U	0.016 U	--	0.016 U	0.029 U	0.021 U	0.018 U	0.018 U	0.016 U
2,4-Dinitrophenol	NE	mg/kg	0.18 U	0.18 U	--	0.18 U	0.33 U	0.24 U F1	0.2 U	0.21 U	0.18 U
2,4-Dinitrotoluene	NE	mg/kg	0.019 U	0.018 U	--	0.019 U	0.034 U	0.025 U	0.021 U	0.021 U	0.018 U
2,6-Dinitrotoluene	NE	mg/kg	0.012 U	0.012 U	--	0.012 U	0.022 U	0.016 U	0.013 U	0.014 U	0.012 U
2-Chloronaphthalene	NE	mg/kg	0.017 U	0.017 U	--	0.017 U	0.031 U	0.022 U	0.019 U	0.019 U	0.017 U
2-Chlorophenol	NE	mg/kg	0.0052 U	0.005 U	--	0.0052 U	0.0094 U	0.0068 U	0.0057 U	0.0059 U	0.0051 U
2-Methylphenol	0.33	mg/kg	0.006 U	0.0058 U	--	0.006 U	0.011 U	0.0078 U	0.0066 U	0.0068 U	0.0058 U
2-Nitroaniline	NE	mg/kg	0.014 U *	0.013 U *	--	0.014 U *	0.025 U	0.018 U	0.015 U *	0.016 U *	0.013 U *
2-Nitrophenol	NE	mg/kg	0.012 U	0.012 U	--	0.012 U	0.022 U	0.016 U	0.013 U	0.013 U	0.012 U
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	0.056 U	0.054 U	--	0.057 U	0.1 U *	0.073 U * I	0.062 U	0.063 U	0.055 U
3-Nitroaniline	NE	mg/kg	0.02 U	0.019 U	--	0.02 U	0.036 U	0.026 U	0.022 U	0.023 U	0.02 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-9	SS-10	SS-10	SS-11	SS-12	SS-12	SS-13	SS-13	SS-14
	Unrestricted Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 7/2/2019	0-2" 7/1/2019	4-5' 7/1/2019	0-2" 7/2/2019	4-5' 7/2/2019	0-2" 7/2/2019
4,6-Dinitro-o-cresol	NE	mg/kg	0.061 U	0.058 U	--	0.061 U	0.11 U	0.079 U F1	0.066 U	0.068 U	0.059 U
4-Bromophenyl phenyl ether	NE	mg/kg	0.0048 U	0.0046 U	--	0.0048 U	0.0087 U	0.0063 U	0.0053 U	0.0054 U	0.0047 U
4-Chloro-3-methyl phenol	NE	mg/kg	0.0062 U *	0.006 U *	--	0.0062 U *	0.011 U	0.0081 U	0.0068 U *	0.007 U *	0.006 U *
4-Chloroaniline	NE	mg/kg	0.026 U	0.025 U	--	0.026 U	0.047 U	0.034 U	0.029 U	0.029 U	0.025 U
4-Chlorophenyl phenyl ether	NE	mg/kg	0.0059 U	0.0056 U	--	0.0059 U	0.011 U	0.0077 U	0.0064 U	0.0066 U	0.0057 U
4-Methylphenol	0.33	mg/kg	0.0064 U	0.0061 U	--	0.0064 U	0.011 U	0.0083 U	0.02 J	0.0072 U	0.0061 U
4-Nitroaniline	NE	mg/kg	0.014 U	0.013 U	--	0.014 U	0.025 U	0.018 U	0.015 U	0.016 U	0.013 U
4-Nitrophenol	NE	mg/kg	0.061 U	0.058 U	--	0.061 U	0.11 U	0.079 U	0.067 U	0.068 U	0.059 U
Acetophenone	NE	mg/kg	0.013 J	0.0058 U	--	0.041 J	0.011 U	0.0078 U	0.0066 U	0.0068 U	0.0058 U
Atrazine	NE	mg/kg	0.0094 U *	0.009 U *	--	0.0094 U *	0.017 U *	0.049 J * F	0.01 U *	0.011 U *	0.0091 U *
Benzaldehyde	NE	mg/kg	0.028 J	0.016 U	--	0.068 J	0.14 J	0.021 U	0.058 J	0.018 U	0.029 J
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	0.013 U	0.012 U	--	0.013 U	0.023 U	0.017 U F1	0.014 U	0.014 U	0.012 U
bis(2-Chloroethyl)ether	NE	mg/kg	0.0045 U	0.0043 U	--	0.0045 U	0.0081 U	0.0059 U F1	0.0049 U	0.0051 U	0.0044 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.029 J	0.019 U	--	0.26 J	0.18 J	0.026 U	0.11 J	0.022 U	0.019 U
Butyl benzyl phthalate	NE	mg/kg	0.018 U	0.017 U	--	0.052 J	0.12 J	0.023 U	0.074 J	0.02 U	0.017 U
Caprolactam	NE	mg/kg	0.022 U	0.021 U	--	0.022 U	0.04 U	0.047 J	0.024 U	0.025 U	0.022 U
Carbazole	NE	mg/kg	0.039 J	0.03 J	--	0.4	0.058 J	0.0057 U	0.043 J	0.0049 U	0.038 J
Dibenzofuran	7	mg/kg	0.035 J	0.011 J	--	0.12 J	0.022 J	0.0068 U	0.019 J	0.0059 U	0.068 J
Diethyl phthalate	NE	mg/kg	0.0054 U	0.0052 U	--	0.0054 U	0.0097 U	0.007 U	0.0059 U	0.0061 U	0.0052 U
Dimethyl phthalate	NE	mg/kg	0.0045 U	0.0043 U	--	0.27 J	0.0081 U	0.0059 U	0.0049 U	0.0051 U	0.0044 U
Di-n-butyl phthalate	NE	mg/kg	0.066 U	0.063 U	--	0.066 U	0.12 U	0.086 U	0.072 U	0.074 U	0.064 U
Di-n-octyl phthalate	NE	mg/kg	0.02 U	0.019 U	--	0.02 U	0.035 U	0.026 U	0.022 U	0.022 U	0.019 U
Hexachlorobenzene	0.33	mg/kg	0.0055 U	0.0053 U	--	0.0055 U	0.0098 U	0.0071 U	0.006 U	0.0062 U	0.0053 U
Hexachlorobutadiene	NE	mg/kg	0.008 U	0.0076 U	--	0.008 U	0.014 U	0.01 U	0.0087 U	0.0089 U	0.0077 U
Hexachlorocyclopentadiene	NE	mg/kg	0.033 U	0.031 U	--	0.033 U	0.059 U	0.043 U F1	0.036 U	0.037 U	0.032 U
Hexachloroethane	NE	mg/kg	0.0058 U	0.0055 U	--	0.0058 U	0.01 U	0.0075 U F1	0.0063 U	0.0065 U	0.0056 U
Isophorone	NE	mg/kg	0.0098 U	0.0094 U	--	0.0098 U	0.018 U	0.013 U F1	0.011 U	0.011 U	0.0095 U
Nitrobenzene	NE	mg/kg	0.009 U	0.0086 U	--	0.009 U	0.016 U	0.012 U F1	0.0098 U	0.01 U	0.0087 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	0.006 U	0.0057 U	--	0.006 U	0.011 U	0.0077 U	0.0065 U	0.0067 U	0.0057 U
N-Nitrosodiphenylamine	NE	mg/kg	0.0072 U	0.0069 U	--	0.0072 U	0.013 U	0.0093 U	0.0078 U	0.008 U	0.0069 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	0.077 U	0.073 U	--	0.077 U	0.14 U	0.1 U	0.084 U	0.086 U	0.074 U
Phenol	0.33	mg/kg	0.0055 U *	0.0053 U *	--	0.0055 U *	0.0099 U	0.0072 U	0.006 U *	0.0062 U *	0.0053 U *

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-9	SS-10	SS-10	SS-11	SS-12	SS-12	SS-13	SS-13	SS-14
	Unrestricted Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 7/2/2019	0-2" 7/1/2019	4-5' 7/1/2019	0-2" 7/2/2019	4-5' 7/2/2019	0-2" 7/2/2019
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	0.0013 U	0.0012 U	--	0.0013 U	0.0023 U	0.0017 U F1	0.0014 U	0.0014 U	0.0012 U
4,4'-DDE	0.0033	mg/kg	0.018	0.00086 U	--	0.0009 U	0.0016 U	0.0012 U	0.011 p	0.001 U	0.00086 U
4-4'-DDT	0.0033	mg/kg	0.019	0.0052 J p	--	0.013 p	0.0025 U	0.0018 U	0.011 p	0.0016 U	0.0013 U
Aldrin	0.005	mg/kg	0.0011 U	0.0011 U	--	0.0011 U	0.0021 U	0.0015 U	0.0012 U	0.0013 U	0.0011 U
alpha-BHC	0.02	mg/kg	0.00077 U	0.00074 U	--	0.00077 U	0.0014 U	0.001 U	0.00084 U	0.00086 U	0.00074 U
beta-BHC	0.036	mg/kg	0.00085 U	0.00081 U	--	0.00085 U	0.0015 U	0.0011 U	0.00093 U	0.00095 U	0.00082 U
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	0.018 U	0.018 U	--	0.018 U	0.033 U	0.024 U	0.02 U	0.021 U	0.018 U
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	0.00046 U	0.00044 U	--	0.00046 U	0.00083 U	0.0006 U	0.00051 U	0.00052 U	0.00045 U
Dieldrin	0.005	mg/kg	0.0078	0.00094 U	--	0.00099 U	0.0018 U	0.0013 U	0.0053 p	0.0011 U	0.00095 U
Endosulfan sulfate	2.4	mg/kg	0.00095 U	0.00091 U	--	0.00095 U	0.0017 U	0.0012 U	0.001 U	0.0011 U	0.00092 U
Endosulfan-I	2.4	mg/kg	0.0012 U	0.0011 U	--	0.0012 U	0.0021 U	0.0015 U	0.0013 U	0.0013 U	0.0011 U
Endosulfan-II	2.4	mg/kg	0.0019 U	0.0019 U	--	0.002 U	0.0035 U	0.0025 U	0.0021 U	0.0022 U	0.0019 U
Endrin	0.014	mg/kg	0.0011 U	0.001 U	--	0.0011 U	0.002 U	0.0014 U	0.0012 U	0.0012 U	0.001 U
Endrin aldehyde	NE	mg/kg	0.0018 U	0.0017 U	--	0.0018 U	0.0032 U	0.0023 U F1	0.0019 U	0.002 U	0.0017 U
Endrin ketone	NE	mg/kg	0.0015 U	0.0014 U	--	0.0015 U	0.0026 U	0.0019 U	0.0016 U	0.0017 U	0.0014 U
gamma-BHC (Lindane)	NE	mg/kg	0.0007 U	0.00067 U	--	0.0007 U	0.0013 U	0.00091 U	0.00076 U	0.00079 U	0.00068 U
Heptachlor	0.042	mg/kg	0.00089 U	0.00086 U	--	0.0009 U	0.0016 U	0.0012 U	0.00097 U	0.001 U	0.00086 U
Heptachlor epoxide	NE	mg/kg	0.0011 U	0.0011 U	--	0.0011 U	0.002 U	0.0015 U	0.0012 U	0.0013 U	0.0011 U
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.0017 U	0.0017 U	--	0.0017 U	0.0031 U	0.0023 U	0.0019 U	0.0019 U	0.0017 U
Toxaphene	NE	mg/kg	0.027 U	0.026 U	--	0.027 U	0.049 U	0.036 U	0.03 U	0.031 U	0.026 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.01 U	0.0097 U	--	0.01 U	0.018 U	0.013 U	0.011 U	0.011 U	0.0097 U
Aroclor 1221	NE	mg/kg	0.01 U	0.0097 U	--	0.01 U	0.018 U	0.013 U	0.011 U	0.011 U	0.0097 U
Aroclor 1232	NE	mg/kg	0.01 U	0.0097 U	--	0.01 U	0.018 U	0.013 U	0.011 U	0.011 U	0.0097 U
Aroclor 1242	NE	mg/kg	0.01 U	0.0097 U	--	0.01 U	0.018 U	0.013 U	0.011 U	0.011 U	0.0097 U
Aroclor 1248	NE	mg/kg	0.01 U	0.0097 U	--	0.01 U	0.018 U	0.013 U	0.011 U	0.011 U	0.0097 U
Aroclor 1254	NE	mg/kg	0.01 U	0.15	--	0.093	0.36	0.014 U	0.28	0.012 U	0.01 U
Aroclor 1260	NE	mg/kg	0.01 U	0.01 U	--	0.01 U	0.019 U	0.014 U	0.011 U	0.012 U	0.01 U
Aroclor 1268	NE	mg/kg	0.01 U	0.01 U	--	0.01 U	0.019 U	0.014 U	0.011 U	0.012 U	0.01 U
Aroclor-1262	NE	mg/kg	0.01 U	0.01 U	--	0.01 U	0.019 U	0.014 U	0.011 U	0.012 U	0.01 U
Total PCBs	0.1	mg/kg	ND	0.15	--	0.093	0.36	ND	0.28	ND	ND

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-9	SS-10	SS-10	SS-11	SS-12	SS-12	SS-13	SS-13	SS-14
	Unrestricted Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 7/2/2019	0-2" 7/1/2019	4-5' 7/1/2019	0-2" 7/2/2019	4-5' 7/2/2019	0-2" 7/2/2019
Inorganics											
Aluminum	NE	mg/kg	10500	8980	8650	7150	22100	15200	18400	9160	10800
Antimony	NE	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	2.1 U	1.5 UF1	1.3 U	1.3 U	1.1 U
Arsenic	13	mg/kg	5.8	3.8	6	6.2	7.5	5.2	7.8	1.5 J	3.2
Barium	350	mg/kg	114	94.2	100	99.2	202	77.6	140	27.1 J	89.2
Beryllium	7.2	mg/kg	0.47	0.41 J	0.4 J	0.36 J	1.1	0.68	0.86	0.4 J	0.53
Cadmium	2.5	mg/kg	0.14 U	0.14 U	0.26 J	1.1	0.91 J	0.2 U	1.1	0.17 U	0.15 U
Calcium	NE	mg/kg	3030	3880	8580	34100	8650	3190	6180	19300	3040
Chromium	1	mg/kg	22.4	32.6	43.8	29.1	56.9	35.8 F1	43.9	15.2	34.8
Cobalt	NE	mg/kg	7.2 J	7.3 J	7.9 J	4.1 J	14.7 J	9.3 J	12.2	6.7 J	9.2 J
Copper	50	mg/kg	24.1	24.3	35.7	31.5	84.7	31.1	59.5	7.8	28.4
Iron	NE	mg/kg	19900	18100	24300	14800	33800	20300	27100	12300	19400
Lead	63	mg/kg	50.4	49.9	47.6	65.8	249	45.3	265	5.2	45.8
Magnesium	NE	mg/kg	4240	4910	6340	5290	10800	9280	8160	15500	5130
Manganese	1600	mg/kg	317	270	268	222	1170	512	753	281	318
Mercury	0.18	mg/kg	0.13	0.45	1.8	0.59	0.44	0.16 F1	0.32	0.12 U	0.12
Nickel	30	mg/kg	19.1	25.4	38.9	15.3	43.9	22.3	34.7	12.7	36.3
Potassium	NE	mg/kg	2160	1770	1740	1120	2420	835 J	2050	502 J	2310
Selenium	3.9	mg/kg	2.5 U	2.5 U	2.4 U	2.5 U	4.8 U	3.4 U	2.8 U	3 U	2.6 U
Silver	2	mg/kg	0.2 U	0.2 U	0.19 U	0.2 U	0.5 J	0.27 U	0.23 J	0.24 U	0.2 U
Sodium	NE	mg/kg	83.4 U	133 J	102 J	372 J	1280 J	766 J	136 J	384 J	116 J
Thallium	NE	mg/kg	0.66 U	0.68 U	0.65 U	0.68 U	1.3 U	0.92 U	0.76 U	0.8 U	0.68 U
Vanadium	NE	mg/kg	28.3	28.6	31.6	21.5	60.8	34	56.1	19.8	35.5
Zinc	109	mg/kg	73	98.1	101	325	383	93.3	331	26	77.1
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-14	SS-15	SS-16	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-21	SS-22
	Unrestricted Use	Units	4-5' 7/2/2019	1.5-2' 7/2/2019	1.5-2' 7/2/2019	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	0.00027 U	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	0.00025 U	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	0.00035 U	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	0.00021 U	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	0.00024 U	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	0.00026 U	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	0.00021 U	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	0.00042 U	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	0.00053 U	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	0.00017 U	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	0.00034 U	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	0.00049 U	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	0.00018 U	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	0.00026 U	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	0.011 U	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	0.0031 U	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	0.002 U	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	0.0018 U	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	0.056	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	0.0003 U	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	0.00049 U	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	0.00055 U	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	0.14	--	--	--	--	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	0.00045 U	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	0.00021 U	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	0.00033 U	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	0.00023 U	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-14	SS-15	SS-16	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-21	SS-22
	Unrestricted Use	Units	4-5' 7/2/2019	1.5-2' 7/2/2019	1.5-2' 7/2/2019	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020
Chloroethane	NE	mg/kg	0.00061 U	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	0.00037 U	--	--	--	--	--	--	--	--
Chloromethane	NE	mg/kg	0.00051 U	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	0.00018 U	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	0.00032 U	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	0.00026 U	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	0.0003 U	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	0.00039 U	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	0.00023 U	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	0.00021 U	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	0.00015 U	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	0.005 U	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	0.00058 U	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	0.00015 U	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	0.002	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	0.00023 U	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	0.0002 U	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	0.00032 U	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	0.00017 U	--	--	--	--	--	--	--	--
Toluene	0.7	mg/kg	0.00027 U	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	0.00029 U	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	0.00031 U	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	0.00017 U	--	--	--	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	0.00047 U	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	0.00063 U	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-14	SS-15	SS-16	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-21	SS-22
	Unrestricted Use	Units	4-5' 7/2/2019	1.5-2' 7/2/2019	1.5-2' 7/2/2019	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	0.03 J	--	--	0.3 J	4.9 U	48 U	55 U	--	--
Acenaphthylene	100	mg/kg	0.053 J	--	--	2.3	1.7 J	48 U	55 U	--	--
Anthracene	100	mg/kg	0.11 J	--	--	1.6 J	1.5 J+	48 U	55 U	--	--
Benz(a)anthracene	1	mg/kg	0.23	--	--	6.6	5.7 J	7.4 J	55 U	--	--
Benzo(a)pyrene	1	mg/kg	0.12	--	--	5.7	5 J+	48 U	55 U	--	--
Benzo(b)fluoranthene	1	mg/kg	0.29	--	--	9.3	7.5 J+	12 J	8.8 J	--	--
Benzo(g,h,i)perylene	100	mg/kg	0.064 J	--	--	3	3.6 J+	9.3 J	7.8 J	--	--
Benzo(k)fluoranthene	0.8	mg/kg	0.11	--	--	3	3.5 J+	48 U	55 U	--	--
Chrysene	1	mg/kg	0.35 J	--	--	5.8	5.7 J	48 U	55 U	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	0.025 J	--	--	1.1 J	0.88 J+	48 U	55 U	--	--
Fluoranthene	100	mg/kg	1	--	--	8.7	1 J	9.2 J	55 U	--	--
Fluorene	30	mg/kg	0.11 J	--	--	0.26 J	4.9 U	48 U	55 U	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.089	--	--	3	3.4 J	7.3 J	7.6 J	--	--
Naphthalene	12	mg/kg	0.23 J	--	--	1.9 U	4.9 U	48 U	55 U	--	--
Phenanthrene	100	mg/kg	0.74	--	--	1.8 J	3.3 J+	48 U	55 U	--	--
Pyrene	100	mg/kg	0.61	--	--	7.9	8.9 J	6.3 J	55 U	--	--
2-Methylnaphthalene	NE	mg/kg	0.14 J	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	0.056 J	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	0.0049 U	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	0.01 U	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	0.0068 U	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	0.025 U	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	0.012 U	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	0.019 U	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	0.0079 U	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	0.016 U	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	0.18 U	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	0.019 U	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	0.012 U	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	0.017 U	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	0.0052 U	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	0.006 U	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	0.014 U *	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	0.012 U	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	0.057 U	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	0.02 U	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-14	SS-15	SS-16	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-21	SS-22
	Unrestricted Use	Units	4-5' 7/2/2019	1.5-2' 7/2/2019	1.5-2' 7/2/2019	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020
4,6-Dinitro-o-cresol	NE	mg/kg	0.061 U	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	0.0048 U	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	0.0062 U *	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	0.026 U	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	0.0059 U	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	0.017 J	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	0.014 U	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	0.061 U	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	0.034 J	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	0.0094 U *	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	0.058 J	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	0.013 U	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	0.0045 U	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.02 U	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	0.018 U	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	0.022 U	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	0.063 J	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	0.14 J	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	0.0054 U	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	0.0045 U	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	0.066 U	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	0.02 U	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	0.0055 U	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	0.008 U	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	0.033 U	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	0.0058 U	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	0.0098 U	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	0.009 U	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	0.006 U	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	0.0072 U	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	0.077 U	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	0.0055 U *	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-14	SS-15	SS-16	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-21	SS-22
	Unrestricted Use	Units	4-5' 7/2/2019	1.5-2' 7/2/2019	1.5-2' 7/2/2019	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	0.0013 U	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	0.00089 U	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	0.0014 U	--	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	0.0011 U	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	0.00077 U	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	0.00085 U	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	0.018 U	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	0.00046 U	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	0.00099 U	--	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	0.00095 U	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	0.0012 U	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	0.0019 U	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	0.0011 U	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	0.0018 U	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	0.0015 U	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	0.0007 U	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	0.00089 U	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	0.0011 U	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.0017 U	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	0.027 U	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.01 U	--	--	--	--	--	--	0.22 U	0.27 U
Aroclor 1221	NE	mg/kg	0.01 U	--	--	--	--	--	--	0.22 U	0.27 U
Aroclor 1232	NE	mg/kg	0.01 U	--	--	--	--	--	--	0.22 U	0.27 U
Aroclor 1242	NE	mg/kg	0.01 U	--	--	--	--	--	--	0.22 U	0.27 U
Aroclor 1248	NE	mg/kg	0.01 U	--	--	--	--	--	--	0.22 U	0.27 U
Aroclor 1254	NE	mg/kg	0.01 U	--	--	--	--	--	--	0.22 U	0.39
Aroclor 1260	NE	mg/kg	0.01 U	--	--	--	--	--	--	0.22 U	0.27 U
Aroclor 1268	NE	mg/kg	0.01 U	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	0.01 U	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	ND	--	--	--	--	--	--	ND	0.39

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ARDSLEY LLC SITE (C360146)
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	Unrestricted Use	Units	4-5' 7/2/2019	1.5-2' 7/2/2019	1.5-2' 7/2/2019	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020
Inorganics											
Aluminum	NE	mg/kg	379	5070	8410	--	--	--	--	--	--
Antimony	NE	mg/kg	1.1 U	1.2 U	1.1 U	--	--	--	--	--	--
Arsenic	13	mg/kg	3.2	16.4	6.5	--	--	--	--	3.8	3.9 J
Barium	350	mg/kg	129	110	93.1	--	--	--	--	--	--
Beryllium	7.2	mg/kg	0.094 U	0.48	0.4 J	--	--	--	--	--	--
Cadmium	2.5	mg/kg	0.14 U	2.9	0.77 J	--	--	--	--	0.32	0.46
Calcium	NE	mg/kg	353 J	2460	65600	--	--	--	--	--	--
Chromium	1	mg/kg	4.4	48.2	16.4	--	--	--	--	3.3	29
Cobalt	NE	mg/kg	1.3 U	3.9 J	3.5 J	--	--	--	--	--	--
Copper	50	mg/kg	41.2	60.9	16.6	336	234	44	338	21.6	21.6
Iron	NE	mg/kg	2630	23400	11300	--	--	--	--	--	--
Lead	63	mg/kg	26	57.6	29.6	--	--	--	--	129 J-	37.4 J-
Magnesium	NE	mg/kg	61.7 U	2190	6580	--	--	--	--	--	--
Manganese	1600	mg/kg	8.5	79.2	207	--	--	--	--	--	--
Mercury	0.18	mg/kg	0.19	1.4	0.47	0.29 J-	0.44 J-	0.89 J-	0.96 J-	0.31	0.37
Nickel	30	mg/kg	2.1 J	21.6	11.9	274 J-	127 J-	176 J-	134 J-	--	--
Potassium	NE	mg/kg	165 J	948 J	953 J	--	--	--	--	--	--
Selenium	3.9	mg/kg	2.5 U	2.7 U	2.6 U	--	--	--	--	--	--
Silver	2	mg/kg	0.2 U	2.6	0.2 U	--	--	--	--	--	--
Sodium	NE	mg/kg	85.1 U	90 U	600 J	--	--	--	--	--	--
Thallium	NE	mg/kg	0.68 U	0.71 U	0.69 U	--	--	--	--	--	--
Vanadium	NE	mg/kg	1.5 J	42.7	27.2	--	--	--	--	--	--
Zinc	109	mg/kg	4.9 U	115	190	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
- J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
- UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
- p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
- H - Sample was prepped or analyzed beyond the specified holding time.
- F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
- * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCS-D) is outside acceptance limits
- NE - Not established.
- ND - Not detected
- (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-22 (DUP)	SS-23	SS-24	SS-25	SS-26	SS-27	SS-28	SS-29	SS-30
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-22 (DUP)	SS-23	SS-24	SS-25	SS-26	SS-27	SS-28	SS-29	SS-30
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	--	--	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	--	--	--	--	--	--	--	--
Toluene	0.7	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-22 (DUP)	SS-23	SS-24	SS-25	SS-26	SS-27	SS-28	SS-29	SS-30
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	4 U	43 U	22 J	0.32 J	2.4 U	2 U
Acenaphthylene	100	mg/kg	--	--	--	4 U	43 U	38 U	0.7 J	2.4 U	0.39 J
Anthracene	100	mg/kg	--	--	--	4 U	43 U	51	1.4 J	0.63 J	0.69 J
Benz(a)anthracene	1	mg/kg	--	--	--	4 U	19 J	96	5.2	2.8	3.1
Benzo(a)pyrene	1	mg/kg	--	--	--	4 U	12 J	81	5.6	3	3
Benzo(b)fluoranthene	1	mg/kg	--	--	--	4 U	15 J	91	7	3.3	2.9
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	4 U	9.8 J	34 J	3.2	1.9 J	1.8 J
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	4 U	7.8 J	39	2.6	1.9 J	1.9 J
Chrysene	1	mg/kg	--	--	--	4 U	13 J	83	4.6	2.4	2.7
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	4 U	43 U	9 J	0.92 J	0.78 J	0.55 J
Fluoranthene	100	mg/kg	--	--	--	5.1 J	33 J	23	8.2	4.5	4.8
Fluorene	30	mg/kg	--	--	--	4 U	43 U	18 J	0.46 J	2.4 U	2 U
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	4 U	9.5 J	35 J	2.9	1.7 J	1.7 J
Naphthalene	12	mg/kg	--	--	--	4 U	43 U	38 U	2.2 U	2.4 U	2 U
Phenanthrene	100	mg/kg	--	--	--	4 U	33 J	14	3.6	1.5 J	1.5 J
Pyrene	100	mg/kg	--	--	--	4 U	25 J	18	7.5	3.9	4.2
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-22 (DUP)	SS-23	SS-24	SS-25	SS-26	SS-27	SS-28	SS-29	SS-30
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-22 (DUP)	SS-23	SS-24	SS-25	SS-26	SS-27	SS-28	SS-29	SS-30
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.2 U	0.3 U	0.25 U	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	0.2 U	0.3 U	0.25 U	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	0.2 U	0.3 U	0.25 U	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	0.2 U	0.3 U	0.25 U	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	0.2 U	0.3 U	0.25 U	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	0.18 J	0.42 J-	8.2 J-	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	0.2 U	0.3 U	0.25 U	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	0.18 J	0.42 J-	8.2 J-	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-22 (DUP)	SS-23	SS-24	SS-25	SS-26	SS-27	SS-28	SS-29	SS-30
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	2.7 J	5.3	5.7	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	0.45	0.31	1.8	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	23.2	24.6	27.3	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	18.8	3.7	21.8	--	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	33.2 J-	32.5 J-	52.9 J-	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	0.28	0.26	0.54	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-31	SS-32	SS-33	SS-33 (DUP)	SS-35	SS-36	SS-37	SS-38	SS-39
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-31	SS-32	SS-33	SS-33 (DUP)	SS-35	SS-36	SS-37	SS-38	SS-39
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	--	--	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	--	--	--	--	--	--	--	--
Toluene	0.7	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Unrestricted Use	Units	SS-31	SS-32	SS-33	SS-33 (DUP)	SS-35	SS-36	SS-37	SS-38	SS-39
			0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	0.76 J	0.3 U	0.17 U	0.33 U	2 U	0.7 U	0.18 U	0.16 U	0.55 J
Acenaphthylene	100	mg/kg	0.28 J	2.6 J	0.41 J	1.4 J	1.8 U	0.62 U	0.25 J	0.14 U	1.1 J
Anthracene	100	mg/kg	2	1.8 J	0.29 U	0.62 J	3.4 U	1.2 U	0.48 J	0.26 U	3
Benz(a)anthracene	1	mg/kg	4.1	5.8 J	0.86 J	2.1 J	1.4 U	0.48 U	2.3	0.9 J	9.2
Benzo(a)pyrene	1	mg/kg	3.5	6.3 J	0.94 J	1.8 J	4.5 J	1.6 J	2.5	0.86 J	8.1
Benzo(b)fluoranthene	1	mg/kg	3.9	12	1.4 J	4.2 J	8.3 J	2.2 J	2.9	0.97 J	10
Benzo(g,h,i)perylene	100	mg/kg	1.9	5.9 J	0.93 J	1.9 J	1.4 U	1.4 J	1.8	0.75 J	4.9
Benzo(k)fluoranthene	0.8	mg/kg	2.2	4.6 J	0.77 J	0.29 U	1.8 U	0.68 J	0.89 J	0.5 J	3.7
Chrysene	1	mg/kg	3.7	7.5 J	1 J	2.3	5.4 J	1.1 U	2.4	0.89 J	8
Dibenz(a,h)anthracene	0.33	mg/kg	0.63 J	2 J	0.27 J	0.67 J	2.4 U	0.85 U	0.63 J	0.19 U	1.6 J
Fluoranthene	100	mg/kg	8.8	8.4 J	1.5 J	3 J	11 J	3 J	3.8	1.5	19
Fluorene	30	mg/kg	1.2 J	0.24 U	0.14 U	0.26 U	1.6 U	0.56 U	0.14 U	0.12 U	1.5 J
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	1.7 J	5.8 J	0.89 J	2 J	4.5 J	1.4 J	1.7	0.66 J	4.9
Naphthalene	12	mg/kg	0.24 J	0.26 U	0.15 U	0.29 U	1.8 U	0.62 U	0.15 U	0.14 U	0.3 U
Phenanthrene	100	mg/kg	7.6	1.6 J	0.4 J	0.9 J	7.5 J	2.2 J	1.5	0.65 J	11
Pyrene	100	mg/kg	7.1	7.4 J	1.1 J	2.5	8 J	2.7 J	3.5	1.2	14
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-31	SS-32	SS-33	SS-33 (DUP)	SS-35	SS-36	SS-37	SS-38	SS-39
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-31	SS-32	SS-33	SS-33 (DUP)	SS-35	SS-36	SS-37	SS-38	SS-39
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-31	SS-32	SS-33	SS-33 (DUP)	SS-35	SS-36	SS-37	SS-38	SS-39
	Unrestricted Use	Units	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	405	221	294	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCS-D) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)	SS-43	SS-43 (Dup)	SS-44
	Unrestricted Use	Units	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
Volatile Organic Compounds (VOCs)										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	0.015 U	--	--	0.018 U	0.0006 UJ	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	0.009 UF1	--	--	0.011 U	0.0013 UJ	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	0.028 U	--	--	0.033 U	0.0019 UJ	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	0.012 UF1	--	--	0.014 U	0.0011 UJ	--
1,1-Dichloroethane	0.27	mg/kg	--	--	0.017 U	--	--	0.02 U	0.001 UJ	--
1,1-Dichloroethene	0.33	mg/kg	--	--	0.019 U	--	--	0.023 U	0.001 UJ	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	0.021 U	--	--	0.025 U	0.0005 UJ	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	0.028 U	--	--	0.033 U	0.0041 UJ	--
1,2-Dibromoethane	NE	mg/kg	--	--	0.0097 UF1	--	--	0.011 U	0.0011 UJ	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	0.014 U	--	--	0.017 U	0.00064 UJ	--
1,2-Dichloroethane	0.02	mg/kg	--	--	0.023 U	--	--	0.027 U	0.00041 UJ	--
1,2-Dichloropropane	NE	mg/kg	--	--	0.009 U	--	--	0.011 U	0.0041 UJ	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	0.015 U	--	--	0.017 U	0.00042 UJ	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	0.0078 U	--	--	0.0091 U	0.0012 UJ	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	0.17 UF1	--	--	0.19 U	0.003 UJ	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	0.11 UF1	--	--	0.13 U	0.0041 UJ	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	1.6 J+	--	--	0.077 J	0.0027 UJ	--
Acetone	0.05	mg/kg	--	--	0.23 U	--	--	0.27 U	0.0082 J	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	0.011 U	--	--	0.012 U	0.0004 UJ	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	0.011 U	--	--	0.013 U	0.0011 UJ	--
Bromoform	NE	mg/kg	--	--	0.028 UF1	--	--	0.033 U	0.0041 UJ	--
Bromomethane	NE	mg/kg	--	--	0.012 U	--	--	0.014 U	0.00074 UJ	--
Carbon disulfide	NE	mg/kg	--	--	0.031 J	--	--	0.03 U	0.0041 UJ	--
Carbon tetrachloride	0.76	mg/kg	--	--	0.99	--	--	0.081 J	0.0008 UJ	--
Chlorobenzene	1.1	mg/kg	--	--	0.0073 U	--	--	0.0086 U	0.0011 UJ	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)	SS-43	SS-43 (Dup)	SS-44
	Unrestricted Use	Units	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
Chloroethane	NE	mg/kg	--	--	0.012 U	--	--	0.014 U	0.0019 UJ	--
Chloroform	0.37	mg/kg	--	--	0.087	--	--	0.045 U	0.00051 UJ	--
Chloromethane	NE	mg/kg	--	--	0.013 U	--	--	0.016 U	0.0005 UJ	--
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	0.015 U	--	--	0.018 U	0.0011 UJ	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	0.013 U	--	--	0.016 U	0.0012 UJ	--
Cyclohexane	NE	mg/kg	--	--	0.02 J	--	--	0.028 J	0.0012 UJ	--
Dibromochloromethane	NE	mg/kg	--	--	0.027 UF1	--	--	0.032 U	0.0011 UJ	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	0.024 U	--	--	0.028 U	0.00068 UJ	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	0.53	--	--	0.019 U	0.00057 UJ	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	0.023 J	--	--	0.0098 U	0.0012 UJ	--
Methyl Acetate	NE	mg/kg	--	--	0.18 J+	--	--	0.55 J	0.005 UJ	--
Methyl cyclohexane	NE	mg/kg	--	--	0.058	--	--	0.078 J	0.0013 UJ	--
Methyl tert butyl ether	0.93	mg/kg	--	--	0.021 UF1	--	--	0.025 U	0.00081 UJ	--
Methylene chloride	0.05	mg/kg	--	--	0.011 U	--	--	0.013 U	0.0038 UJ	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	0.013 UF1	--	--	0.016 U	0.00041 UJ	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	--	0.06	--	--	0.73	0.0022 J	--
Toluene	0.7	mg/kg	--	--	0.015 U	--	--	0.054 J	0.00062 UJ	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	0.013 U	--	--	0.015 U	0.00085 UJ	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	0.0055 U	--	--	0.0064 U	0.0036 UJ	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	0.015 U	--	--	0.018 U	0.0018 UJ	--
Trichlorofluoromethane	NE	mg/kg	--	--	0.026 U	--	--	0.031 U	0.00078 UJ	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	0.019 U	--	--	0.022 U	0.001 UJ	--
Xylene (total)	0.26	mg/kg	--	--	4.2 F1	--	--	0.19 J	0.0014 UJ	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Unrestricted Use	Units	SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)	SS-43	SS-43 (Dup)	SS-44
			0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
Semi-Volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	mg/kg	0.17 U	0.63 U	0.27 J+	2 U	2.7 U	1.2 U	0.61 U	0.29 U
Acenaphthylene	100	mg/kg	0.15 U	4.7	1.9 J+	1.8 J	2.4 U	5 J	5.1	0.32 J
Anthracene	100	mg/kg	0.33 J	2.8 J	1.6 J+	3.3 U	4.5 U	4.5 J	4.3	0.49 U
Benz(a)anthracene	1	mg/kg	1.5	11	5.9 J	5.9 J	4.9 J	13	13	1.7 J
Benzo(a)pyrene	1	mg/kg	1.8	12	5.7 J+	6.8 J	6 J	13	13	2
Benzo(b)fluoranthene	1	mg/kg	2	16	7 J+	11 J	12 J	20	20	2.5
Benzo(g,h,i)perylene	100	mg/kg	1.4	6.9	4.2 J+	5.7 J	4.8 J	9.6	7.8	0.96 J
Benzo(k)fluoranthene	0.8	mg/kg	1.1 J	6.6	3.6 J+	4.9 J	4.3 J	7.9 J	8.7	0.88 J
Chrysene	1	mg/kg	1.5	12	5.8 J	7 J	6 J	15	13	1.6 J
Dibenz(a,h)anthracene	0.33	mg/kg	0.46 J	2.5 J	1.2 J+	2.3 U	3.2 U	1.5 U	2.9 J	0.35 U
Fluoranthene	100	mg/kg	2.8	18	10 J	12 J	8.2 J	27	23	3.5
Fluorene	30	mg/kg	0.14 U	0.51 U	0.36 J+	1.6 U	2.2 U	0.98 U	0.7 J	0.23 U
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	1.3	7.2	4 J+	5 J	4.7 J	9	8.5	0.99 J
Naphthalene	12	mg/kg	0.15 U	0.56 U	0.13 UF1F2	1.7 U	2.4 U	1.1 U	2.2 J	0.25 U
Phenanthrene	100	mg/kg	0.91 J	4.3	5 J	4.4 J	2.7 U	8.8	11	1.5 J
Pyrene	100	mg/kg	2.5	15	8.7 J	9.9 J	6.6 J	20	17	2.8
2-Methylnaphthalene	NE	mg/kg	--	--	0.2 UF1F2	2.7 U	3.7 U	1.7 U	0.92 J	0.39 U
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	0.27 U	3.6 U	5 U	2.3 U	1.1 U	0.53 U
2,4,6-Trichlorophenol	NE	mg/kg	--	--	0.2 U	2.7 U	3.7 U	1.7 U	0.82 U	0.39 U
2,4-Dichlorophenol	NE	mg/kg	--	--	0.1 U	1.4 U	1.9 U	0.88 U	0.44 U	0.21 U
2,4-Dimethylphenol	NE	mg/kg	--	--	0.24 U	3.2 U	4.4 U	2 U	0.99 U	0.47 U
2,4-Dinitrophenol	NE	mg/kg	--	--	4.6 U	61 U	84 U	38 U	19 U	9.1 U
2,4-Dinitrotoluene	NE	mg/kg	--	--	0.2 U	2.7 U	3.8 U	1.7 U	0.85 U	0.4 U
2,6-Dinitrotoluene	NE	mg/kg	--	--	0.12 U	1.6 U	2.2 U	0.98 U	0.48 U	0.23 U
2-Chloronaphthalene	NE	mg/kg	--	--	0.16 U	2.2 U	3 U	1.4 U	0.68 U	0.32 U
2-Chlorophenol	NE	mg/kg	--	--	0.18 U	2.4 U	3.3 U	1.5 U	0.75 U	0.36 U
2-Methylphenol	0.33	mg/kg	--	--	0.12 U	1.6 U	2.2 U	0.98 U	0.48 U	0.23 U
2-Nitroaniline	NE	mg/kg	--	--	0.15 U	2 U	2.7 U	1.2 U	0.61 U	0.29 U
2-Nitrophenol	NE	mg/kg	--	--	0.28 U	3.8 U	5.2 U	2.4 U	1.2 U	0.56 U
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	1.2 U	16 U	22 U	9.8 U	4.8 U	2.3 U
3-Nitroaniline	NE	mg/kg	--	--	0.27 U	3.7 U	5.1 U	2.3 U	1.1 U	0.54 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)	SS-43	SS-43 (Dup)	SS-44
	Unrestricted Use	Units	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	0.99 U	13 U	18 U	8.3 U	4.1 U	2 U
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	0.14 U	1.9 U	2.6 U	1.2 U	0.58 U	0.28 U
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	0.24 U	3.3 U	4.5 U	2.1 U	1 U	0.49 U
4-Chloroaniline	NE	mg/kg	--	--	0.24 U	3.3 U	4.5 U	2.1 U	1 U	0.49 U
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	0.12 U	1.6 U	2.3 U	1 U	0.51 U	0.24 U
4-Methylphenol	0.33	mg/kg	--	--	0.12 U	1.6 U	2.2 U	0.98 U	0.48 U	0.23 U
4-Nitroaniline	NE	mg/kg	--	--	0.52 U	7 U	9.6 U	4.4 U	2.2 U	1 U
4-Nitrophenol	NE	mg/kg	--	--	0.69 U	9.3 U	13 U	5.8 U	2.9 U	1.4 U
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	0.34 U	4.6 U	6.4 U	2.9 U	1.4 U	0.68 U
Benzaldehyde	NE	mg/kg	--	--	0.79 U	11 U	15 U	6.6 U	3.3 U	1.6 U
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	0.16 UF1	2.2 U	3 U	2.2 J	0.68 U	0.32 U
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	0.15 U	2 U	2.7 U	1.2 U	0.61 U	0.29 U
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	0.21 U	2.8 U	3.9 U	1.8 U	0.87 U	0.42 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	0.13 U	1.7 U	2.4 U	1.1 U	0.53 U	0.25 U
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	0.2 U	2.7 U	3.7 U	1.7 U	0.82 U	0.39 U
Butyl benzyl phthalate	NE	mg/kg	--	--	0.34 UF1	4.5 U	6.2 U	2.8 U	1.4 U	0.67 U
Caprolactam	NE	mg/kg	--	--	0.3 U	4 U	5.5 U	2.5 U	1.2 U	0.59 U
Carbazole	NE	mg/kg	--	--	0.66 J+	2.9 J	3.3 J	3.8 J	3 J	0.23 U
Dibenzofuran	7	mg/kg	--	--	0.23 J+	1.6 U	2.2 U	0.98 U	1.8 J	0.23 U
Diethyl phthalate	NE	mg/kg	--	--	0.13 U	1.7 U	2.4 U	1.1 U	0.53 U	0.25 U
Dimethyl phthalate	NE	mg/kg	--	--	0.12 U	1.6 U	2.2 U	0.98 U	0.48 U	0.23 U
Di-n-butyl phthalate	NE	mg/kg	--	--	0.17 U	2.3 U	3.1 U	1.4 U	0.7 U	0.34 U
Di-n-octyl phthalate	NE	mg/kg	--	--	0.12 U	1.6 U	2.2 U	0.98 U	0.48 U	0.23 U
Hexachlorobenzene	0.33	mg/kg	--	--	0.13 U	1.8 U	2.5 U	1.1 U	0.56 U	0.27 U
Hexachlorobutadiene	NE	mg/kg	--	--	0.15 U	2 U	2.7 U	1.2 U	0.61 U	0.29 U
Hexachlorocyclopentadiene	NE	mg/kg	--	--	0.13 U	1.8 U	2.5 U	1.1 U	0.56 U	0.27 U
Hexachloroethane	NE	mg/kg	--	--	0.13 U	1.7 U	2.4 U	1.1 U	0.53 U	0.25 U
Isophorone	NE	mg/kg	--	--	0.21 U	2.8 U	3.9 U	1.8 U	0.87 U	0.42 U
Nitrobenzene	NE	mg/kg	--	--	0.11 U	1.5 U	2 U	0.93 U	0.46 U	0.22 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	0.17 U	2.3 U	3.1 U	1.4 U	0.7 U	0.34 U
N-Nitrosodiphenylamine	NE	mg/kg	--	--	0.8 U	11 U	15 U	6.8 U	3.3 U	1.6 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	0.99 U	13 U	18 U	8.3 U	4.1 U	2 U
Phenol	0.33	mg/kg	--	--	0.15 U	2 U	2.8 U	1.3 U	0.63 U	0.3 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)	SS-43	SS-43 (Dup)	SS-44
	Unrestricted Use	Units	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	0.0033	mg/kg	--	--	0.0075 U	0.0084 U	0.008 U	0.024 R	0.2 J-	0.0075 U
4,4'-DDE	0.0033	mg/kg	--	--	0.0081 U	0.015 J+	0.0086 U	0.067	0.08 J-	0.0081 U
4-4'-DDT	0.0033	mg/kg	--	--	0.088 J+	0.15	0.14	1.1	1.6 J+	0.011 J-
Aldrin	0.005	mg/kg	--	--	0.0095 UF1	0.011 U	0.01 U	0.01 U	0.049 U	0.0094 U
alpha-BHC	0.02	mg/kg	--	--	0.007 U	0.0078 U	0.0074 U	0.14	0.12 J+	0.0069 U
beta-BHC	0.036	mg/kg	--	--	0.007 UF1	0.0078 U	0.0074 U	0.29	0.079 J	0.0069 U
Chlordane, alpha	0.094	mg/kg	--	--	0.019 UF1	0.022 U	0.02 U	0.02 U	0.1 U	0.019 U
Chlordane, beta	NE	mg/kg	--	--	0.012 UF1	0.014 U	0.013 U	0.013 U	0.064 U	0.012 U
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	0.0072 U	0.0081 U	0.0076 U	0.024 J	0.037 U	0.0071 U
Dieldrin	0.005	mg/kg	--	--	0.0093 UF2	0.01 U	0.0098 U	0.04 R	0.048 U	0.0092 U
Endosulfan sulfate	2.4	mg/kg	--	--	0.0072 UF1	0.0081 U	0.0076 U	0.0085 R	0.048 R	0.0072 U
Endosulfan-I	2.4	mg/kg	--	--	0.0074 UF1	0.0083 U	0.0079 U	0.0079 U	0.039 U	0.0074 U
Endosulfan-II	2.4	mg/kg	--	--	0.007 UF1	0.0078 U	0.0074 U	0.1	0.036 U	0.0069 U
Endrin	0.014	mg/kg	--	--	0.0077 UF1	0.0086 U	0.0081 U	0.16	0.04 U	0.0076 U
Endrin aldehyde	NE	mg/kg	--	--	0.0099 UF1	0.011 U	0.012 J	0.22 J	0.85 J	0.0098 U
Endrin ketone	NE	mg/kg	--	--	0.0095 UF1F2	0.046	0.01 U	0.16	0.049 U	0.0094 U
gamma-BHC (Lindane)	NE	mg/kg	--	--	0.0071 UF2	0.008 U	0.0075 U	0.069	0.037 U	0.0071 U
Heptachlor	0.042	mg/kg	--	--	0.0084 UF1	0.0094 U	0.0089 U	0.0089 U	0.044 U	0.0083 U
Heptachlor epoxide	NE	mg/kg	--	--	0.01 UF1	0.011 U	0.011 U	0.011 U	0.052 U	0.0099 U
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	0.0079 UF1F2	0.0088 U	0.0084 U	0.39	1.7 J	0.0078 U
Toxaphene	NE	mg/kg	--	--	0.22 U	0.25 U	0.24 U	0.24 U	20	0.22 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	0.046 U	0.052 U	0.053 U	0.051 U	0.052 U	0.048 U
Aroclor 1221	NE	mg/kg	--	--	0.046 U	0.052 U	0.053 U	0.051 U	0.052 U	0.048 U
Aroclor 1232	NE	mg/kg	--	--	0.046 U	0.052 U	0.053 U	0.051 U	0.052 U	0.048 U
Aroclor 1242	NE	mg/kg	--	--	0.046 U	0.052 U	0.053 U	0.051 U	0.052 U	0.048 U
Aroclor 1248	NE	mg/kg	--	--	0.046 U	0.052 U	0.053 U	0.051 U	0.052 U	0.048 U
Aroclor 1254	NE	mg/kg	--	--	0.11 U	0.56 J+	0.52 JN	0.12 U	0.12 U	0.11 U
Aroclor 1260	NE	mg/kg	--	--	0.11 U	0.13 U	0.13 U	0.12 U	0.12 U	0.11 U
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	ND	0.56 J	0.52 J	ND	ND	ND

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)	SS-43	SS-43 (Dup)	SS-44
	Unrestricted Use	Units	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
Inorganics										
Aluminum	NE	mg/kg	--	--	5130 J+	9880 J+	9420 J+	5190 J+	3340 J+	10900 J+
Antimony	NE	mg/kg	--	--	0.46 U	1.2 J	0.6 J	1.6 J	2 J	0.48 U
Arsenic	13	mg/kg	--	--	10.3 J+	40.7 J+	23.4 J+	23.8 J+	16.8	3.7 J+
Barium	350	mg/kg	--	--	149 J-	157 J-	135 J-	212 J-	199	85.9 J-
Beryllium	7.2	mg/kg	--	--	0.42	0.41	0.38	0.51	0.38	0.35
Cadmium	2.5	mg/kg	--	--	0.36	3.3	2.8	1.9 J	1.1 J	0.38
Calcium	NE	mg/kg	--	--	1560 J+	6480 J+	6730 J+	2350 J+	1510 J	4040 J+
Chromium	1	mg/kg	--	--	19 J	65.6 J	50.8 J	57.4 J	53.3	32.3 J
Cobalt	NE	mg/kg	--	--	4.9 J+	7.9 J+	9.7 J+	5.7 J+	3.9 J	7 J+
Copper	50	mg/kg	--	264 J-	137 J-	114 J-	66.7 J-	156 J-	83 J	25.9 J-
Iron	NE	mg/kg	--	--	31800 J	31600 J	26400 J	38800 J	45900	18400 J
Lead	63	mg/kg	--	--	151 J+	217 J+	180 J+	322 J+	288	42.4 J+
Magnesium	NE	mg/kg	--	--	2230 J-	4750 J-	5360 J-	2030 J-	1100 J+	4750 J-
Manganese	1600	mg/kg	--	--	128 J+	250 J+	285 J+	218 J+	209	261 J+
Mercury	0.18	mg/kg	--	--	0.31	1.3	1.1	1.8	3 J	0.39
Nickel	30	mg/kg	--	--	30.2 J	35.8 J	32.1 J	35.1 J	18.6 J	25 J
Potassium	NE	mg/kg	--	--	1950 J	1440 J	1570 J	1470 J	2330 J+	1910 J
Selenium	3.9	mg/kg	--	--	0.79 J	0.97 J	0.61 J	1.1 J	1.1 J	0.48 U
Silver	2	mg/kg	--	--	1.8	0.45 J	0.43 J	0.55 J	0.51 J	0.24 U
Sodium	NE	mg/kg	--	--	122 J	221	193	171 J	167 J	146 J
Thallium	NE	mg/kg	--	--	0.34 U	0.4 U	0.37 U	0.38 U	0.37 U	0.36 U
Vanadium	NE	mg/kg	--	--	27.2 J	48.1 J	43.2 J	63.4 J	49.1	31.7 J
Zinc	109	mg/kg	--	--	103 J-	1010 J-	844 J-	406 J-	191 J	88.8 J-
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
- J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
- UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
- p - The percent RPD is between the primary and confirmation column/ detector is >40%. The lower value has been reported.
- H - Sample was prepped or analyzed beyond the specified holding time.
- F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
- * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
- NE - Not established.
- ND - Not detected
- (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-44	SS-45	SS-45	SS-46	SS-46	SS-47	SS-47	SS-48
	Unrestricted Use	Units	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
Volatile Organic Compounds (VOCs)										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	0.014 U	--	0.016 U	--	0.015 U	--	0.016 U	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	0.0081 U	--	0.0095 U	--	0.0091 U	--	0.0092 U	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	0.025 U	--	0.029 U	--	0.028 U	--	0.028 U	--
1,1,2-Trichloroethane	NE	mg/kg	0.01 U	--	0.012 U	--	0.012 U	--	0.012 U	--
1,1-Dichloroethane	0.27	mg/kg	0.015 U	--	0.018 U	--	0.017 U	--	0.017 U	--
1,1-Dichloroethene	0.33	mg/kg	0.017 U	--	0.02 U	--	0.019 U	--	0.02 U	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	0.019 U	--	0.022 U	--	0.021 U	--	0.021 U	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	0.025 U	--	0.029 U	--	0.028 U	--	0.028 U	--
1,2-Dibromoethane	NE	mg/kg	0.0087 U	--	0.01 U	--	0.0098 U	--	0.0099 U	--
1,2-Dichlorobenzene	1.1	mg/kg	0.013 U	--	0.015 U	--	0.014 U	--	0.014 U	--
1,2-Dichloroethane	0.02	mg/kg	0.02 U	--	0.024 U	--	0.023 U	--	0.023 U	--
1,2-Dichloropropane	NE	mg/kg	0.0081 U	--	0.0095 U	--	0.0091 U	--	0.0091 U	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	0.013 U	--	0.016 U	--	0.015 U	--	0.015 U	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	0.007 U	--	0.0082 U	--	0.0078 U	--	0.0079 U	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	0.15 U	--	0.17 U	--	0.17 U	--	0.17 U	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	0.1 U	--	0.12 U	--	0.11 U	--	0.12 U	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	0.016 U	--	0.019 U	--	0.018 U	--	0.018 U	--
Acetone	0.05	mg/kg	0.2 U	--	0.24 U	--	0.23 U	--	0.23 U	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	0.0094 U	--	0.011 U	--	0.011 U	--	0.028 J	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	0.0099 U	--	0.012 U	--	0.011 U	--	0.011 U	--
Bromoform	NE	mg/kg	0.025 U	--	0.029 U	--	0.028 U	--	0.028 U	--
Bromomethane	NE	mg/kg	0.011 U	--	0.013 U	--	0.012 U	--	0.012 U	--
Carbon disulfide	NE	mg/kg	0.023 U	--	0.027 U	--	0.025 U	--	0.026 U	--
Carbon tetrachloride	0.76	mg/kg	0.013 U	--	0.015 U	--	0.014 U	--	0.014 U	--
Chlorobenzene	1.1	mg/kg	0.0066 U	--	0.0078 U	--	0.0074 U	--	0.0074 U	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-44	SS-45	SS-45	SS-46	SS-46	SS-47	SS-47	SS-48
	Unrestricted Use	Units	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
Chloroethane	NE	mg/kg	0.01 U	--	0.012 U	--	0.012 U	--	0.012 U	--
Chloroform	0.37	mg/kg	0.034 U	--	0.04 U	--	0.038 U	--	0.039 U	--
Chloromethane	NE	mg/kg	0.012 U	--	0.014 U	--	0.013 U	--	0.013 U	--
cis-1,2-Dichloroethene	0.25	mg/kg	0.014 U	--	0.016 U	--	0.015 U	--	0.016 U	--
cis-1,3-Dichloropropene	NE	mg/kg	0.012 U	--	0.014 U	--	0.013 U	--	0.013 U	--
Cyclohexane	NE	mg/kg	0.011 U	--	0.013 U	--	0.012 U	--	0.016 J	--
Dibromochloromethane	NE	mg/kg	0.024 U	--	0.028 U	--	0.027 U	--	0.027 U	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	0.022 U	--	0.026 U	--	0.024 U	--	0.025 U	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	0.014 U	--	0.017 U	--	0.016 U	--	0.016 U	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	0.0075 U	--	0.0088 U	--	0.013 J	--	0.0085 U	--
Methyl Acetate	NE	mg/kg	0.15 J	--	0.47	--	0.027 U	--	0.34	--
Methyl cyclohexane	NE	mg/kg	0.023 U	--	0.028 U	--	0.026 U	--	0.052 J	--
Methyl tert butyl ether	0.93	mg/kg	0.019 U	--	0.022 U	--	0.021 U	--	0.021 U	--
Methylene chloride	0.05	mg/kg	0.0098 U	--	0.012 U	--	0.011 U	--	0.011 U	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	0.012 U	--	0.064	--	0.066	--	0.044 J	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	0.025 J	--	0.0079 U	--	0.035 J	--	0.13	--
Toluene	0.7	mg/kg	0.013 U	--	0.016 U	--	0.015 U	--	0.03 J	--
trans-1,2-Dichloroethene	0.19	mg/kg	0.012 U	--	0.014 U	--	0.013 U	--	0.013 U	--
trans-1,3-Dichloropropene	NE	mg/kg	0.0049 U	--	0.0058 U	--	0.0055 U	--	0.0055 U	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	0.014 U	--	0.016 U	--	0.016 U	--	0.016 U	--
Trichlorofluoromethane	NE	mg/kg	0.24	--	2.5	--	1.7	--	1.6	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	0.017 U	--	0.02 U	--	0.019 U	--	0.019 U	--
Xylene (total)	0.26	mg/kg	0.028 U	--	0.033 U	--	0.031 U	--	0.082 J	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives	Units	SS-44	SS-45	SS-45	SS-46	SS-46	SS-47	SS-47	SS-48
	[6 NYCRR Subpart 375-6]		2-12"	0-2"	2-12"	0-2"	2-12"	0-2"	2-12"	0-2"
	Unrestricted Use		3/23/2021	3/23/2021	3/23/2021	3/23/2021	3/23/2021	3/23/2021	3/23/2021	3/23/2021
Semi-Volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	mg/kg	0.27 U	1.4 U	1.4 U	1.4 U	1.4 U	0.29 U	0.29 U	2.3 J
Acenaphthylene	100	mg/kg	0.45 J	1.3 U	1.3 U	1.3 U	1.4 J	0.26 U	0.26 J	1.2 U
Anthracene	100	mg/kg	0.46 J	2.4 U	2.4 U	2.4 U	2.4 U	0.49 U	0.48 U	6.7 J
Benz(a)anthracene	1	mg/kg	2.8	2.4 J	1.9 J	8.8 J	7.1 J	1.6 J	1.4 J	21
Benzo(a)pyrene	1	mg/kg	3.9	2.6 J	1.9 J	8.2 J	7.1 J	1.7 J	1.5 J	23
Benzo(b)fluoranthene	1	mg/kg	3.6	3.4 J	2.4 J	9.6 J	8.3 J	1.9 J	1.8 J	23
Benzo(g,h,i)perylene	100	mg/kg	1.8 J	1.1 J	1 U	4.7 J	3.3 J	0.96 J	0.72 J	13
Benzo(k)fluoranthene	0.8	mg/kg	2.1	1.3 U	1.3 U	4.9 J	3.3 J	1.2 J	0.85 J	12
Chrysene	1	mg/kg	2.8	2.2 U	2.2 U	7.9 J	6 J	1.5 J	1.4 J	21
Dibenz(a,h)anthracene	0.33	mg/kg	0.48 J	1.7 U	1.7 U	1.7 U	1.7 U	0.35 U	0.34 U	4.5 J
Fluoranthene	100	mg/kg	5.1	5.1 J	4.2 J	19	15	3.1	2.8	50
Fluorene	30	mg/kg	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U	0.24 U	0.23 U	1.5 J
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	1.8 J	1.2 U	1.2 U	4.5 J	3.5 J	0.87 J	0.74 J	12
Naphthalene	12	mg/kg	0.24 U	1.3 U	1.3 U	1.3 U	1.3 U	0.26 U	0.25 U	1.2 U
Phenanthrene	100	mg/kg	1.1 J	3.3 J	2.5 J	10	8.2 J	1.4 J	1.5 J	19
Pyrene	100	mg/kg	5.2	3.8 J	3 J	14	12	2.5	2.2	38
2-Methylnaphthalene	NE	mg/kg	0.37 U	2 U	2 U	2 U	2 U	--	0.39 U	1.9 U
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	0.5 U	2.7 U	2.7 U	2.7 U	2.6 U	--	0.53 U	2.6 U
2,4,6-Trichlorophenol	NE	mg/kg	0.37 U	2 U	2 U	2 U	2 U	--	0.39 U	1.9 U
2,4-Dichlorophenol	NE	mg/kg	0.2 U	1 U	1 U	1 U	1 U	--	0.21 U	1 U
2,4-Dimethylphenol	NE	mg/kg	0.45 U	2.4 U	2.4 U	2.4 U	2.4 U	--	0.47 U	2.3 U
2,4-Dinitrophenol	NE	mg/kg	8.6 U	45 U	45 U	45 U	45 U	--	9 U	44 U
2,4-Dinitrotoluene	NE	mg/kg	0.38 U	2 U	2 U	2 U	2 U	--	0.4 U	2 U
2,6-Dinitrotoluene	NE	mg/kg	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U	--	0.23 U	1.1 U
2-Chloronaphthalene	NE	mg/kg	0.31 U	1.6 U	1.6 U	1.6 U	1.6 U	--	0.32 U	1.6 U
2-Chlorophenol	NE	mg/kg	0.34 U	1.8 U	1.8 U	1.8 U	1.8 U	--	0.35 U	1.7 U
2-Methylphenol	0.33	mg/kg	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U	--	0.23 U	1.1 U
2-Nitroaniline	NE	mg/kg	0.27 U	1.4 U	1.4 U	1.4 U	1.4 U	--	0.29 U	1.4 U
2-Nitrophenol	NE	mg/kg	0.53 U	2.8 U	2.8 U	2.8 U	2.8 U	--	0.55 U	2.7 U
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	2.2 U	12 U	12 U	12 U	12 U	--	2.3 U	11 U
3-Nitroaniline	NE	mg/kg	0.51 U	2.7 U	2.7 U	2.7 U	2.7 U	--	0.54 U	2.7 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-44	SS-45	SS-45	SS-46	SS-46	SS-47	SS-47	SS-48
	Unrestricted Use	Units	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
4,6-Dinitro-o-cresol	NE	mg/kg	1.9 U	9.8 U	9.9 U	9.8 U	9.8 U	--	1.9 U	9.6 U
4-Bromophenyl phenyl ether	NE	mg/kg	0.26 U	1.4 U	1.4 U	1.4 U	1.4 U	--	0.27 U	1.4 U
4-Chloro-3-methyl phenol	NE	mg/kg	0.46 U	2.4 U	2.4 U	2.4 U	2.4 U	--	0.48 U	2.4 U
4-Chloroaniline	NE	mg/kg	0.46 U	2.4 U	2.4 U	2.4 U	2.4 U	--	0.48 U	2.4 U
4-Chlorophenyl phenyl ether	NE	mg/kg	0.23 U	1.2 U	1.2 U	1.2 U	1.2 U	--	0.24 U	1.2 U
4-Methylphenol	0.33	mg/kg	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U	--	0.23 U	1.1 U
4-Nitroaniline	NE	mg/kg	0.98 U	5.1 U	5.2 U	5.1 U	5.1 U	--	1 U	5 U
4-Nitrophenol	NE	mg/kg	1.3 U	6.9 U	6.9 U	6.9 U	6.9 U	--	1.4 U	6.7 U
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	0.65 U	3.4 U	3.4 U	3.4 U	3.4 U	--	0.67 U	3.3 U
Benzaldehyde	NE	mg/kg	1.5 U	7.8 U	7.8 U	7.8 U	7.8 U	--	1.5 U	7.6 U
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	0.31 U	1.6 U	1.6 U	1.6 U	1.6 U	--	0.32 U	6.4 J
bis(2-Chloroethoxy)methane	NE	mg/kg	0.27 U	1.4 U	1.4 U	1.4 U	1.4 U	--	0.29 U	1.4 U
bis(2-Chloroethyl)ether	NE	mg/kg	0.39 U	2.1 U	2.1 U	2.1 U	2.1 U	--	0.41 U	2 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	0.24 U	1.3 U	1.3 U	1.3 U	1.3 U	--	0.25 U	1.2 U
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.37 U	2 U	2 U	2 U	2 U	--	0.39 U	1.9 U
Butyl benzyl phthalate	NE	mg/kg	0.64 U	3.4 U	3.4 U	3.4 U	3.3 U	--	0.66 U	3.3 U
Caprolactam	NE	mg/kg	0.56 U	2.9 U	3 U	3 U	2.9 U	--	0.58 U	2.9 U
Carbazole	NE	mg/kg	0.22 U	1.2 U	1.2 U	1.7 J	1.3 J	--	0.23 U	2 J
Dibenzofuran	7	mg/kg	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U	--	0.23 U	1.1 U
Diethyl phthalate	NE	mg/kg	0.24 U	1.3 U	1.3 U	1.3 U	1.3 U	--	0.25 U	1.2 U
Dimethyl phthalate	NE	mg/kg	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U	--	0.23 U	1.1 U
Di-n-butyl phthalate	NE	mg/kg	0.32 U	1.7 U	1.7 U	1.7 U	1.7 U	--	0.33 U	1.6 U
Di-n-octyl phthalate	NE	mg/kg	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U	--	0.23 U	1.1 U
Hexachlorobenzene	0.33	mg/kg	0.25 U	1.3 U	1.3 U	1.3 U	1.3 U	--	0.26 U	1.3 U
Hexachlorobutadiene	NE	mg/kg	0.27 U	1.4 U	1.4 U	1.4 U	1.4 U	--	0.29 U	1.4 U
Hexachlorocyclopentadiene	NE	mg/kg	0.25 U	1.3 U	1.3 U	1.3 U	1.3 U	--	0.26 U	1.3 U
Hexachloroethane	NE	mg/kg	0.24 U	1.3 U	1.3 U	1.3 U	1.3 U	--	0.25 U	1.2 U
Isophorone	NE	mg/kg	0.39 U	2.1 U	2.1 U	2.1 U	2.1 U	--	0.41 U	2 U
Nitrobenzene	NE	mg/kg	0.21 U	1.1 U	1.1 U	1.1 U	1.1 U	--	0.22 U	1.1 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	0.32 U	1.7 U	1.7 U	1.7 U	1.7 U	--	0.33 U	1.6 U
N-Nitrosodiphenylamine	NE	mg/kg	1.5 U	8 U	8 U	8 U	7.9 U	--	1.6 U	7.8 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	1.9 U	9.8 U	9.9 U	9.8 U	9.8 U	--	1.9 U	9.6 U
Phenol	0.33	mg/kg	0.28 U	1.5 U	1.5 U	1.5 U	1.5 U	--	0.3 U	1.5 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-44	SS-45	SS-45	SS-46	SS-46	SS-47	SS-47	SS-48
	Unrestricted Use	Units	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	0.0033	mg/kg	0.0072 U	0.0075 U	0.0076 U	0.019 U	0.019 U	--	0.0074 U	0.018 U
4,4'-DDE	0.0033	mg/kg	0.0078 U	0.05	0.0082 U	0.02 U	0.02 U	--	0.008 U	0.16
4-4'-DDT	0.0033	mg/kg	0.0087 U	0.2	0.0091 U	0.025 J	0.028 J	--	0.036 J	0.47
Aldrin	0.005	mg/kg	0.0092 U	0.0095 U	0.0096 U	0.024 U	0.024 U	--	0.0093 U	0.023 U
alpha-BHC	0.02	mg/kg	0.0067 U	0.007 U	0.007 U	0.017 U	0.017 U	--	0.0068 U	0.017 U
beta-BHC	0.036	mg/kg	0.0067 U	0.007 U	0.007 U	0.017 U	0.017 U	--	0.0068 U	0.017 U
Chlordane, alpha	0.094	mg/kg	0.019 U	0.019 U	0.019 U	0.048 U	0.048 U	--	0.019 U	0.047 U
Chlordane, beta	NE	mg/kg	0.012 U	0.017 R	0.012 U	0.031 U	0.031 U	--	0.012 U	0.03 U
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	0.0069 U	0.0072 U	0.0072 U	0.018 U	0.018 U	--	0.0071 U	0.017 U
Dieldrin	0.005	mg/kg	0.0089 U	0.0093 U	0.0093 U	0.023 U	0.023 U	--	0.0091 U	0.023 U
Endosulfan sulfate	2.4	mg/kg	0.007 U	0.0072 U	0.0073 U	0.018 U	0.018 U	--	0.0071 U	0.018 U
Endosulfan-I	2.4	mg/kg	0.0072 U	0.0074 U	0.0075 U	0.019 U	0.018 U	--	0.0073 U	0.018 U
Endosulfan-II	2.4	mg/kg	0.0067 U	0.007 U	0.007 U	0.017 U	0.017 U	--	0.0068 U	0.017 U
Endrin	0.014	mg/kg	0.0074 U	0.0077 U	0.0077 U	0.019 U	0.019 U	--	0.0075 U	0.019 U
Endrin aldehyde	NE	mg/kg	0.0095 U	0.0099 U	0.01 U	0.025 U	0.025 U	--	0.0097 U	0.4
Endrin ketone	NE	mg/kg	0.0092 U	0.0095 U	0.0096 U	0.024 U	0.024 U	--	0.0093 U	0.023 U
gamma-BHC (Lindane)	NE	mg/kg	0.0068 U	0.0071 U	0.0071 U	0.018 U	0.018 U	--	0.007 U	0.017 U
Heptachlor	0.042	mg/kg	0.0081 U	0.0084 U	0.0084 U	0.021 U	0.021 U	--	0.0082 U	0.02 U
Heptachlor epoxide	NE	mg/kg	0.0096 U	0.01 U	0.01 U	0.025 U	0.025 U	--	0.0098 U	0.024 U
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.0076 U	0.06	0.0079 U	0.02 U	0.02 U	--	0.0077 U	0.019 U
Toxaphene	NE	mg/kg	0.22 U	0.23 U	0.23 U	0.56 U	0.56 U	--	0.22 U	0.55 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U	--	0.04 U	0.046 U
Aroclor 1221	NE	mg/kg	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U	--	0.04 U	0.046 U
Aroclor 1232	NE	mg/kg	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U	--	0.04 U	0.046 U
Aroclor 1242	NE	mg/kg	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U	--	0.04 U	0.046 U
Aroclor 1248	NE	mg/kg	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U	--	0.04 U	0.046 U
Aroclor 1254	NE	mg/kg	0.096 U	0.24 J	0.14 J	0.1 U	0.1 U	--	0.097 U	0.42
Aroclor 1260	NE	mg/kg	0.096 U	0.13 U	0.14 U	0.1 U	0.1 U	--	0.097 U	0.11 U
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	ND	0.24 J	0.14 J	ND	ND	--	ND	0.42

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-44	SS-45	SS-45	SS-46	SS-46	SS-47	SS-47	SS-48
	Unrestricted Use	Units	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021
Inorganics										
Aluminum	NE	mg/kg	13700 J+	12000 J+	11700 J+	9260 J+	10400 J+	--	7690 J+	7630 J+
Antimony	NE	mg/kg	0.45 U	0.48 U	0.48 U	0.45 U	0.48 U	--	0.47 U	0.87 J
Arsenic	13	mg/kg	4.6 J+	8.1 J+	6.9 J+	6.4 J+	6 J+	--	6.2 J+	3.9 J+
Barium	350	mg/kg	80.6 J-	91.9 J-	102 J-	358 J-	110 J-	--	89.5 J-	158 J-
Beryllium	7.2	mg/kg	0.39	0.4	0.39	0.34	0.42	--	0.32	0.28
Cadmium	2.5	mg/kg	0.53	0.61	0.86	1.4	1.5	--	1	2.7
Calcium	NE	mg/kg	4270 J+	8970 J+	34400 J+	53200 J+	94200 J+	--	34600 J+	66500 J+
Chromium	1	mg/kg	30 J	31.3 J	28.9 J	39.5 J	22.7 J	--	18.3 J	35.1 J
Cobalt	NE	mg/kg	6.9 J+	6 J+	5.2 J+	4.2 J+	4.2 J+	--	3.7 J+	4.2 J+
Copper	50	mg/kg	27.3 J-	26.7 J-	24.9 J-	26.1 J-	24.4 J-	--	25.7 J-	34.1 J-
Iron	NE	mg/kg	20200 J	30600 J	24300 J	13800 J	12500 J	--	14700 J	12300 J
Lead	63	mg/kg	468 J+	45.3 J+	48.5 J+	151 J+	60.5 J+	--	48.7 J+	78.1 J+
Magnesium	NE	mg/kg	5030 J-	4660 J-	7850 J-	7120 J-	6550 J-	--	5920 J-	21800 J-
Manganese	1600	mg/kg	270 J+	303 J+	340 J+	232 J+	265 J+	--	277 J+	194 J+
Mercury	0.18	mg/kg	0.28	0.37	0.45	1	1.2	--	0.5	0.63
Nickel	30	mg/kg	25.2 J	29.5 J	18 J	13.7 J	14.4 J	--	13.8 J	17.8 J
Potassium	NE	mg/kg	1730 J	1690 J	1630 J	1480 J	1320 J	--	1150 J	1230 J
Selenium	3.9	mg/kg	0.45 U	0.48 U	0.48 U	0.45 U	0.48 U	--	0.47 U	0.46 U
Silver	2	mg/kg	0.23 U	0.24 U	0.24 U	0.22 U	0.24 U	--	0.24 U	0.23 U
Sodium	NE	mg/kg	188	715	856	700	992	--	577	472
Thallium	NE	mg/kg	0.34 U	0.36 U	0.36 U	0.34 U	0.36 U	--	0.35 U	0.35 U
Vanadium	NE	mg/kg	33.2 J	29.3 J	29 J	25.9 J	24.2 J	--	22 J	26 J
Zinc	109	mg/kg	85.5 J-	108 J-	275 J-	432 J-	272 J-	--	163 J-	440 J-
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-48	SS-49	SS-50	SS-51	SS-51	SS-52	SS-53	SS-53
	Unrestricted Use	Units	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
Volatile Organic Compounds (VOCs)										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	0.033 U	0.015 U	--	--	0.021 U	0.017 U	--	0.028 U
1,1,2,2-Tetrachloroethane	NE	mg/kg	0.019 U	0.0089 U	--	--	0.013 U	0.0098 U	--	0.016 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	0.059 U	0.028 U	--	--	0.039 U	0.03 U	--	0.051 U
1,1,2-Trichloroethane	NE	mg/kg	0.025 U	0.012 U	--	--	0.016 U	0.013 U	--	0.021 U
1,1-Dichloroethane	0.27	mg/kg	0.036 U	0.017 U	--	--	0.024 U	0.019 U	--	0.031 U
1,1-Dichloroethene	0.33	mg/kg	0.041 U	0.019 U	--	--	0.027 U	0.021 U	--	0.035 U
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	0.045 U	0.021 U	--	--	0.029 U	0.023 U	--	0.038 U
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	0.059 U	0.028 U	--	--	0.039 U	0.03 U	--	0.051 U
1,2-Dibromoethane	NE	mg/kg	0.021 U	0.0096 U	--	--	0.013 U	0.011 U	--	0.018 U
1,2-Dichlorobenzene	1.1	mg/kg	0.03 U	0.014 U	--	--	0.02 U	0.015 U	--	0.026 U
1,2-Dichloroethane	0.02	mg/kg	0.048 U	0.023 U	--	--	0.032 U	0.025 U	--	0.042 U
1,2-Dichloropropane	NE	mg/kg	0.019 U	0.0089 U	--	--	0.012 U	0.0098 U	--	0.016 U
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	0.031 U	0.015 U	--	--	0.021 U	0.016 U	--	0.027 U
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	0.016 U	0.0077 U	--	--	0.011 U	0.0084 U	--	0.014 U
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	0.35 U	0.16 U	--	--	0.23 U	0.18 U	--	0.3 U
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	0.24 U	0.11 U	--	--	0.16 U	0.12 U	--	0.21 U
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	0.11 J	0.096 J	--	--	0.025 U	0.019 U	--	0.096 J
Acetone	0.05	mg/kg	0.48 U	0.23 U	--	--	0.32 U	0.25 U	--	0.42 U
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	0.022 U	0.03 J	--	--	0.015 U	0.011 U	--	0.019 U
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	0.024 U	0.011 U	--	--	0.015 U	0.012 U	--	0.02 U
Bromoform	NE	mg/kg	0.059 U	0.028 U	--	--	0.039 U	0.03 U	--	0.051 U
Bromomethane	NE	mg/kg	0.026 U	0.012 U	--	--	0.017 U	0.013 U	--	0.022 U
Carbon disulfide	NE	mg/kg	0.054 U	0.093	--	--	0.035 U	0.027 U	--	0.046 U
Carbon tetrachloride	0.76	mg/kg	0.03 U	0.014 U	--	--	0.03 J	0.015 U	--	0.026 U
Chlorobenzene	1.1	mg/kg	0.016 U	0.0073 U	--	--	0.01 U	0.008 U	--	0.013 U
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-48	SS-49	SS-50	SS-51	SS-51	SS-52	SS-53	SS-53
	Unrestricted Use	Units	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
Chloroethane	NE	mg/kg	0.025 U	0.011 U	--	--	0.016 U	0.013 U	--	0.021 U
Chloroform	0.37	mg/kg	0.081 U	0.038 U	--	--	0.053 U	0.041 U	--	0.07 U
Chloromethane	NE	mg/kg	0.028 U	0.013 U	--	--	0.018 U	0.014 U	--	0.024 U
cis-1,2-Dichloroethene	0.25	mg/kg	0.033 U	0.015 U	--	--	0.021 U	0.017 U	--	0.028 U
cis-1,3-Dichloropropene	NE	mg/kg	0.028 U	0.013 U	--	--	0.018 U	0.014 U	--	0.024 U
Cyclohexane	NE	mg/kg	0.026 U	0.012 U	--	--	0.017 U	0.013 U	--	0.023 U
Dibromochloromethane	NE	mg/kg	0.057 U	0.027 U	--	--	0.037 U	0.029 U	--	0.049 U
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	0.051 U	0.024 U	--	--	0.034 U	0.026 U	--	0.044 U
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	0.035 J	0.1	--	--	0.022 U	0.018 U	--	0.03 U
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	0.021 J	0.056	--	--	0.012 U	0.009 U	--	0.015 U
Methyl Acetate	NE	mg/kg	0.056 U	0.2 J	--	--	0.037 U	0.029 U	--	0.4 J
Methyl cyclohexane	NE	mg/kg	0.055 U	0.026 U	--	--	0.036 U	0.028 J	--	0.047 U
Methyl tert butyl ether	0.93	mg/kg	0.045 U	0.021 U	--	--	0.029 U	0.023 U	--	0.038 U
Methylene chloride	0.05	mg/kg	0.034 J	0.011 U	--	--	0.019 J	0.012 U	--	0.02 U
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	0.58	0.23	--	--	0.019 U	0.015 U	--	0.024 U
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	0.016 U	0.07	--	--	1.5	1.3	--	0.03 J
Toluene	0.7	mg/kg	0.032 U	0.015 U	--	--	0.021 U	0.016 U	--	0.027 U
trans-1,2-Dichloroethene	0.19	mg/kg	0.028 U	0.013 U	--	--	0.018 U	0.014 U	--	0.024 U
trans-1,3-Dichloropropene	NE	mg/kg	0.012 U	0.0054 U	--	--	0.0076 U	0.0059 U	--	0.01 U
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	0.033 U	0.015 U	--	--	0.021 U	0.017 U	--	0.028 U
Trichlorofluoromethane	NE	mg/kg	2	1.2	--	--	0.036 U	0.028 U	--	0.49
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	0.039 U	0.018 U	--	--	0.026 U	0.02 U	--	0.034 U
Xylene (total)	0.26	mg/kg	0.068 J	0.22	--	--	0.043 U	0.033 U	--	0.056 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Unrestricted Use	Units	SS-48	SS-49	SS-50	SS-51	SS-51	SS-52	SS-53	SS-53
			2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
Semi-Volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	mg/kg	1.6 J	5.2 J	0.59 U	1.7 J	0.81 J	0.3 U	0.19 J	0.84 J
Acenaphthylene	100	mg/kg	1.3 U	1.2 U	0.52 U	1.4 J	2 J	0.26 U	0.32 J	1.9 J
Anthracene	100	mg/kg	3.5 J	9.3 J	0.98 U	5.1	3.1	0.5 U	1 J	4.7
Benz(a)anthracene	1	mg/kg	11	17	1.9 J	15	8.8	1.6 J	2.4 J+	13
Benzo(a)pyrene	1	mg/kg	13	17	1.8 J	13	7.8	1.6 J	1.7 J+	8.7
Benzo(b)fluoranthene	1	mg/kg	14	17	2 J	16	10	1.8 J	2.2	12
Benzo(g,h,i)perylene	100	mg/kg	7.6 J	8.2 J	1.3 J	8.1	5.2	1.1 J	1.1	3.8
Benzo(k)fluoranthene	0.8	mg/kg	7.6 J	8.8 J	0.94 J	7.5	3.7	0.26 U	1.3	6.1
Chrysene	1	mg/kg	11	16	1.7 J	14	7.3	1.6 J	1.7	9.8
Dibenz(a,h)anthracene	0.33	mg/kg	2.5 J	2.9 J	0.7 U	2.8	1.8 J	0.36 U	0.38 J	1.8 J
Fluoranthene	100	mg/kg	27	42	3.6 J	31	16	3.7	3.1 J+	16
Fluorene	30	mg/kg	1.2 U	4.1 J	0.47 U	1.9 J	1.3 J	0.24 U	0.45 J	3.8
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	7.2 J	8.4 J	1.1 J	8	5.4	1 J	1.2	5
Naphthalene	12	mg/kg	1.3 U	1.3 J	0.52 U	0.8 J	0.47 J	0.26 U	0.14 U	1.4 J
Phenanthrene	100	mg/kg	13	32	2.1 J	18	10	1.9 J	2.5 J	13
Pyrene	100	mg/kg	21	32	2.6 J	21	11	2.4	2.2	11
2-Methylnaphthalene	NE	mg/kg	2 U	1.9 U	--	--	0.43 U	0.41 U	0.21 U	2.4
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	2.7 U	2.6 U	--	--	0.58 U	0.55 U	0.29 U	0.64 U
2,4,6-Trichlorophenol	NE	mg/kg	2 U	1.9 U	--	--	0.43 U	0.41 U	0.21 U	0.47 U
2,4-Dichlorophenol	NE	mg/kg	1.1 U	1 U	--	--	0.23 U	0.22 U	0.11 U	0.25 U
2,4-Dimethylphenol	NE	mg/kg	2.4 U	2.3 U	--	--	0.52 U	0.49 U	0.26 U	0.57 U
2,4-Dinitrophenol	NE	mg/kg	46 U	44 U	--	--	9.9 U	9.4 U	4.9 U	11 U
2,4-Dinitrotoluene	NE	mg/kg	2.1 U	2 U	--	--	0.44 U	0.42 U	0.22 U	0.49 U
2,6-Dinitrotoluene	NE	mg/kg	1.2 U	1.1 U	--	--	0.25 U	0.24 U	0.13 U	0.28 U
2-Chloronaphthalene	NE	mg/kg	1.7 U	1.6 U	--	--	0.35 U	0.33 U	0.18 U	0.39 U
2-Chlorophenol	NE	mg/kg	1.8 U	1.7 U	--	--	0.39 U	0.37 U	0.2 U	0.43 U
2-Methylphenol	0.33	mg/kg	1.2 U	1.1 U	--	--	0.25 U	0.24 U	0.13 U	0.28 U
2-Nitroaniline	NE	mg/kg	1.5 U	1.4 U	--	--	0.32 U	0.3 U	0.16 U	0.35 U
2-Nitrophenol	NE	mg/kg	2.8 U	2.7 U	--	--	0.61 U	0.57 U	0.3 U	0.67 U
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	12 U	11 U	--	--	2.5 U	2.4 U	1.3 U	2.8 U
3-Nitroaniline	NE	mg/kg	2.8 U	2.6 U	--	--	0.59 U	0.56 U	0.3 U	0.65 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-48	SS-49	SS-50	SS-51	SS-51	SS-52	SS-53	SS-53
	Unrestricted Use	Units	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
4,6-Dinitro-o-cresol	NE	mg/kg	10 U	9.5 U	--	--	2.1 U	2 U	1.1 U	2.4 U
4-Bromophenyl phenyl ether	NE	mg/kg	1.4 U	1.3 U	--	--	0.3 U	0.29 U	0.15 U	0.33 U
4-Chloro-3-methyl phenol	NE	mg/kg	2.5 U	2.3 U	--	--	0.53 U	0.5 U	0.26 U	0.58 U
4-Chloroaniline	NE	mg/kg	2.5 U	2.3 U	--	--	0.53 U	0.5 U	0.26 U	0.58 U
4-Chlorophenyl phenyl ether	NE	mg/kg	1.2 U	1.2 U	--	--	0.27 U	0.25 U	0.13 U	0.29 U
4-Methylphenol	0.33	mg/kg	1.2 U	1.1 U	--	--	0.25 U	0.24 U	0.13 U	0.28 U
4-Nitroaniline	NE	mg/kg	5.3 U	5 U	--	--	1.1 U	1.1 U	0.56 U	1.2 U
4-Nitrophenol	NE	mg/kg	7 U	6.7 U	--	--	1.5 U	1.4 U	0.75 U	1.7 U
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	3.5 U	3.3 U	--	--	0.75 U	0.71 U	0.37 U	0.82 U
Benzaldehyde	NE	mg/kg	8 U	7.5 U	--	--	1.7 U	1.6 U	0.85 U	1.9 U
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	2.3 J	1.6 U	--	--	0.35 U	0.33 U	0.18 U	0.39 U
bis(2-Chloroethoxy)methane	NE	mg/kg	1.5 U	1.4 U	--	--	0.32 U	0.3 U	0.16 U	0.45 J
bis(2-Chloroethyl)ether	NE	mg/kg	2.1 U	2 U	--	--	0.45 U	0.43 U	0.23 U	0.5 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	1.3 U	1.2 U	--	--	0.28 U	0.26 U	0.14 U	0.31 U
bis(2-Ethylhexyl)phthalate	NE	mg/kg	2 U	1.9 U	--	--	0.43 U	0.41 U	0.21 U	0.47 U
Butyl benzyl phthalate	NE	mg/kg	3.4 U	3.2 U	--	--	0.73 U	0.69 U	0.36 U	0.8 U
Caprolactam	NE	mg/kg	3 U	2.9 U	--	--	0.64 U	0.61 U	0.32 U	0.71 U
Carbazole	NE	mg/kg	1.8 J	3.5 J	--	--	1.4 J	0.31 J	0.34 J	2.1 J
Dibenzofuran	7	mg/kg	1.2 U	2.4 J	--	--	0.6 J	0.24 U	0.18 J	1.6 J
Diethyl phthalate	NE	mg/kg	1.3 U	1.2 U	--	--	0.28 U	0.26 U	0.14 U	0.31 U
Dimethyl phthalate	NE	mg/kg	1.2 U	1.1 U	--	--	0.25 U	0.24 U	0.13 U	0.28 U
Di-n-butyl phthalate	NE	mg/kg	1.7 U	1.6 U	--	--	0.37 U	0.35 U	0.18 U	0.4 U
Di-n-octyl phthalate	NE	mg/kg	1.2 U	1.1 U	--	--	0.25 U	0.24 U	0.13 U	0.28 U
Hexachlorobenzene	0.33	mg/kg	1.4 U	1.3 U	--	--	0.29 U	0.28 U	0.14 U	0.32 U
Hexachlorobutadiene	NE	mg/kg	1.5 U	1.4 U	--	--	0.32 U	0.3 U	0.16 U	0.35 U
Hexachlorocyclopentadiene	NE	mg/kg	1.4 U	1.3 U	--	--	0.29 U	0.28 U	0.14 U	0.32 U
Hexachloroethane	NE	mg/kg	1.3 U	1.2 U	--	--	0.28 U	0.26 U	0.14 U	0.31 U
Isophorone	NE	mg/kg	2.1 U	2 U	--	--	0.45 U	0.43 U	0.23 U	0.5 U
Nitrobenzene	NE	mg/kg	1.1 U	1.1 U	--	--	0.24 U	0.23 U	0.12 U	0.26 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	1.7 U	1.6 U	--	--	0.37 U	0.35 U	0.18 U	0.4 U
N-Nitrosodiphenylamine	NE	mg/kg	8.2 U	7.7 U	--	--	1.7 U	1.7 U	0.87 U	1.9 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	10 U	9.5 U	--	--	2.1 U	2 U	1.1 U	2.4 U
Phenol	0.33	mg/kg	1.5 U	1.5 U	--	--	0.33 U	0.31 U	0.16 U	0.36 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-48	SS-49	SS-50	SS-51	SS-51	SS-52	SS-53	SS-53
	Unrestricted Use	Units	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	0.0033	mg/kg	0.019 U	0.018 U	--	--	0.0081 U	0.019 U	0.0041 UF1	0.0091 U
4,4'-DDE	0.0033	mg/kg	0.035 J	0.02 U	--	--	0.0088 U	0.021 U	0.0044 UF2	0.051 J-
4-4'-DDT	0.0033	mg/kg	0.22	0.075 J-	--	--	0.0098 U	0.027 J-	0.0049 UF1	0.011 U
Aldrin	0.005	mg/kg	0.024 U	0.023 U	--	--	0.01 U	0.024 U	0.0051 UF2	0.011 U
alpha-BHC	0.02	mg/kg	0.018 U	0.017 U	--	--	0.0075 U	0.018 U	0.0038 UF2	0.0084 U
beta-BHC	0.036	mg/kg	0.018 U	0.017 U	--	--	0.0075 U	0.018 U	0.0038 UF1F2	0.0084 U
Chlordane, alpha	0.094	mg/kg	0.049 U	0.047 U	--	--	0.021 U	0.05 U	0.01 UF1	0.023 U
Chlordane, beta	NE	mg/kg	0.031 U	0.03 U	--	--	0.013 U	0.032 U	0.0066 U	0.015 U
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	0.018 U	0.018 U	--	--	0.0078 U	0.019 U	0.0039 UF2	0.0087 U
Dieldrin	0.005	mg/kg	0.023 U	0.023 U	--	--	0.01 U	0.024 U	0.005 UF2	0.011 U
Endosulfan sulfate	2.4	mg/kg	0.018 U	0.018 U	--	--	0.0078 U	0.019 U	0.0039 UF1	0.0087 U
Endosulfan-I	2.4	mg/kg	0.019 U	0.018 U	--	--	0.008 U	0.019 U	0.004 U	0.009 U
Endosulfan-II	2.4	mg/kg	0.018 U	0.017 U	--	--	0.0075 U	0.018 U	0.0038 U	0.0084 U
Endrin	0.014	mg/kg	0.019 U	0.019 U	--	--	0.0083 U	0.02 U	0.0041 UF1F2	0.0093 U
Endrin aldehyde	NE	mg/kg	0.025 U	0.024 U	--	--	0.011 U	0.025 U	0.0053 UF1	0.012 U
Endrin ketone	NE	mg/kg	0.024 U	0.023 U	--	--	0.024 J+	0.024 U	0.0051 UF1	0.011 U
gamma-BHC (Lindane)	NE	mg/kg	0.018 U	0.017 U	--	--	0.0077 U	0.018 U	0.0038 UF2	0.0086 U
Heptachlor	0.042	mg/kg	0.021 U	0.02 U	--	--	0.009 U	0.022 U	0.0045 UF2	0.01 U
Heptachlor epoxide	NE	mg/kg	0.025 U	0.024 U	--	--	0.011 U	0.026 U	0.0054 UF2	0.012 U
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.02 U	0.019 U	--	--	0.03 R	0.02 U	0.014 R	0.092 JN
Toxaphene	NE	mg/kg	0.57 U	0.55 U	--	--	0.24 U	0.58 U	0.12 U	0.27 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.051 U	0.048 U	--	--	0.054 U	0.057 U	0.046 U	0.062 U
Aroclor 1221	NE	mg/kg	0.051 U	0.048 U	--	--	0.054 U	0.057 U	0.046 U	0.062 U
Aroclor 1232	NE	mg/kg	0.051 U	0.048 U	--	--	0.054 U	0.057 U	0.046 U	0.062 U
Aroclor 1242	NE	mg/kg	0.051 U	0.048 U	--	--	0.054 U	0.057 U	0.046 U	0.062 U
Aroclor 1248	NE	mg/kg	0.051 U	0.048 U	--	--	0.054 U	0.057 U	0.046 U	0.062 U
Aroclor 1254	NE	mg/kg	0.35	0.96	--	--	0.27 J	0.16 J-	0.14 J	0.75
Aroclor 1260	NE	mg/kg	0.12 U	0.12 U	--	--	0.13 U	0.14 U	0.11 U	0.15 U
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	0.35	0.96	--	--	0.27 J	0.16 J	0.14 J	0.75

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-48	SS-49	SS-50	SS-51	SS-51	SS-52	SS-53	SS-53
	Unrestricted Use	Units	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
Inorganics										
Aluminum	NE	mg/kg	9670 J+	9700 J+	--	--	12300 J+	11100 J+	6810 J+	3540 J+
Antimony	NE	mg/kg	0.46 U	0.45 U	--	--	0.51 U	0.5 U	0.51 U	0.58 U
Arsenic	13	mg/kg	5.7 J+	7.7 J+	--	--	8.5 J+	4.5	4.7	16.6
Barium	350	mg/kg	206 J-	155 J-	--	--	172 J-	84.2	231	549
Beryllium	7.2	mg/kg	0.36	0.33	--	--	0.42	0.37	0.27	0.19 J
Cadmium	2.5	mg/kg	2.3	1.4	--	--	0.62	0.75	0.48	0.22 J
Calcium	NE	mg/kg	52100 J+	32200 J+	--	--	4770 J+	23800	5860	2740
Chromium	1	mg/kg	38.6 J	24.3 J	--	--	54.1 J	28.6	16.5	23
Cobalt	NE	mg/kg	4.5 J+	5.6 J+	--	--	7 J+	6.3	5	3.9
Copper	50	mg/kg	37.6 J-	29.3 J-	--	--	66.1 J-	24.9	27.1	32.4
Iron	NE	mg/kg	17900 J	14200 J	--	--	24500 J	17300	14200	31900
Lead	63	mg/kg	127 J+	61.6 J+	--	--	148 J+	143	71.8	139
Magnesium	NE	mg/kg	7450 J-	6080 J-	--	--	4610 J-	11900 J+	2460 J+	1030 J+
Manganese	1600	mg/kg	270 J+	290 J+	--	--	262 J+	280	248	173
Mercury	0.18	mg/kg	0.71	0.71	--	--	8.1	0.35	0.25	0.3
Nickel	30	mg/kg	15.5 J	16.6 J	--	--	32.8 J	21.9	20	17
Potassium	NE	mg/kg	1240 J	1470 J	--	--	1630 J	2030 J+	1360 J+	3190 J+
Selenium	3.9	mg/kg	0.46 U	0.45 U	--	--	0.91 J	0.5 U	0.51 U	1.1 J
Silver	2	mg/kg	0.23 U	0.22 U	--	--	0.29 J	0.25 U	0.26 J	0.29 U
Sodium	NE	mg/kg	853	612	--	--	197	399	126 J	226
Thallium	NE	mg/kg	0.35 U	0.34 U	--	--	0.38 U	0.38 U	0.38 U	0.44 U
Vanadium	NE	mg/kg	28 J	28.6 J	--	--	36.8 J	32.3	27.7	37.9
Zinc	109	mg/kg	536 J-	238 J-	--	--	159 J-	123	72.7 F2	30.4
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-54	SS-54	SS-55	SS-55	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01
	Unrestricted Use	Units	0-2" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	4 - 4.7' 2/20/2020	8 - 9' 2/20/2020	10 - 10.5' 2/20/2020	12 - 13' 2/20/2020
Volatile Organic Compounds (VOCs)										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	0.016 U	--	0.015 U	0.00042 J	0.00063 J	0.0011 J	0.011 U
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	0.0095 U	--	0.0089 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	0.029 U	--	0.028 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,1,2-Trichloroethane	NE	mg/kg	--	0.012 U	--	0.012 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,1-Dichloroethane	0.27	mg/kg	--	0.018 U	--	0.017 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,1-Dichloroethene	0.33	mg/kg	--	0.02 U	--	0.019 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	0.022 U	--	0.021 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	0.029 U	--	0.028 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,2-Dibromoethane	NE	mg/kg	--	0.01 U	--	0.0096 U	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	0.015 U	--	0.014 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,2-Dichloroethane	0.02	mg/kg	--	0.024 U	--	0.023 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,2-Dichloropropane	NE	mg/kg	--	0.0095 U	--	0.0089 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	0.016 U	--	0.015 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	0.0082 U	--	0.0077 U	0.0051 U	0.005 U	0.012 U	0.011 U
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	0.17 U	--	0.16 U	0.037	0.025 U	0.06 U	0.074
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	0.12 U	--	0.11 U	0.025 U	0.025 U	0.06 U	0.056 U
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	0.019 U	--	0.018 U	0.025 U	0.025 U	0.06 U	0.056 U
Acetone	0.05	mg/kg	--	0.24 U	--	0.23 U	0.14	0.024 J	0.053 J	0.27
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	0.011 U	--	0.01 U	0.0051 U	0.005 U	0.012 U	0.017
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	0.012 U	--	0.011 U	--	--	--	--
Bromoform	NE	mg/kg	--	0.029 U	--	0.028 U	0.0051 U	0.005 U	0.012 U	0.011 U
Bromomethane	NE	mg/kg	--	0.013 U	--	0.012 U	0.0051 U	0.005 U	0.012 U	0.011 U
Carbon disulfide	NE	mg/kg	--	0.027 U	--	0.025 U	0.0033 J	0.005 U	0.012 U	0.81
Carbon tetrachloride	0.76	mg/kg	--	0.015 U	--	0.014 U	0.0051 U	0.001 J	0.0045 J	0.011 U
Chlorobenzene	1.1	mg/kg	--	0.0078 U	--	0.0073 U	0.0051 U	0.005 U	0.012 U	0.011 U
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	0.0051 U	0.005 U	0.012 U	0.011 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-54	SS-54	SS-55	SS-55	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01
	Unrestricted Use	Units	0-2" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	4 - 4.7' 2/20/2020	8 - 9' 2/20/2020	10 - 10.5' 2/20/2020	12 - 13' 2/20/2020
Chloroethane	NE	mg/kg	--	0.012 U	--	0.011 U	0.0051 U	0.005 U	0.012 U	0.011 U
Chloroform	0.37	mg/kg	--	0.04 U	--	0.038 U	0.0051 U	0.0025 J	0.0083 J	0.001 J
Chloromethane	NE	mg/kg	--	0.014 U	--	0.013 U	0.0051 U	0.005 U	0.012 U	0.011 U
cis-1,2-Dichloroethene	0.25	mg/kg	--	0.016 U	--	0.015 U	0.018	0.005 U	0.012 U	0.011 U
cis-1,3-Dichloropropene	NE	mg/kg	--	0.014 U	--	0.013 U	0.0051 U	0.005 U	0.012 U	0.011 U
Cyclohexane	NE	mg/kg	--	0.016 J	--	0.012 U	0.0051 U	0.005 U	0.012 U	0.011 U
Dibromochloromethane	NE	mg/kg	--	0.028 U	--	0.027 U	0.0051 U	0.005 U	0.012 U	0.011 U
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	0.026 U	--	0.024 U	0.0051 U	0.005 U	0.012 U	0.011 U
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	0.017 U	--	0.016 U	0.0051 U	0.005 U	0.012 U	0.011 U
Ethylene Dibromide	NE	mg/kg	--	--	--	--	0.0051 U	0.005 U	0.012 U	0.011 U
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	0.0088 U	--	0.0083 U	0.0051 U	0.005 U	0.012 U	0.011 U
Methyl Acetate	NE	mg/kg	--	0.27 J	--	0.026 U	0.025 U	0.025 U	0.06 U	0.056 U
Methyl cyclohexane	NE	mg/kg	--	0.057 J	--	0.026 U	0.0051 U	0.005 U	0.012 U	0.011 U
Methyl tert butyl ether	0.93	mg/kg	--	0.022 U	--	0.021 U	0.0051 U	0.005 U	0.012 U	0.011 U
Methylene chloride	0.05	mg/kg	--	0.012 U	--	0.011 U	0.0051 U	0.005 U	0.012 U	0.011 U
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	0.014 U	--	0.013 U	0.0051 U	0.005 U	0.012 U	0.011 U
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	--	0.076	--	0.0074 U	0.0019 J	7.2	110	32
Toluene	0.7	mg/kg	--	0.016 U	--	0.015 U	0.0016 J	0.00066 J	0.0011 J	0.006 J
trans-1,2-Dichloroethene	0.19	mg/kg	--	0.014 U	--	0.013 U	0.00087 J	0.005 U	0.012 U	0.011 U
trans-1,3-Dichloropropene	NE	mg/kg	--	0.0058 U	--	0.0054 U	0.0051 U	0.005 U	0.012 U	0.011 U
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	0.016 U	--	0.015 U	0.0026 J	0.005 U	0.0056 J	0.027
Trichlorofluoromethane	NE	mg/kg	--	0.028 U	--	0.026 U	0.0051 U	0.005 U	0.012 U	0.011 U
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	0.02 U	--	0.018 U	0.0051 U	0.005 U	0.012 U	0.011 U
Xylene (total)	0.26	mg/kg	--	0.033 U	--	0.031 U	0.01 U	0.01 U	0.024 U	0.022 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-54	SS-54	SS-55	SS-55	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01
	Unrestricted Use	Units	0-2" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	4 - 4.7' 2/20/2020	8 - 9' 2/20/2020	10 - 10.5' 2/20/2020	12 - 13' 2/20/2020
Semi-Volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	mg/kg	1.9 U	1.6 J	1.4 U	0.14 U	--	--	--	--
Acenaphthylene	100	mg/kg	1.7 U	0.27 U	1.3 U	0.12 U	--	--	--	--
Anthracene	100	mg/kg	3.2 U	3	2.4 U	0.23 J	--	--	--	--
Benz(a)anthracene	1	mg/kg	1.3 U	6.3	2.6 J	1.1	--	--	--	--
Benzo(a)pyrene	1	mg/kg	1.9 U	5.3	2.4 J	1.1	--	--	--	--
Benzo(b)fluoranthene	1	mg/kg	2.1 U	6.7	2.6 J	1.2	--	--	--	--
Benzo(g,h,i)perylene	100	mg/kg	1.4 U	2.2	1.7 J	0.73 J	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	1.7 U	2.9	1.3 U	0.56 J	--	--	--	--
Chrysene	1	mg/kg	2.9 U	5.3	2.2 U	1	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	2.3 U	0.86 J	1.7 U	0.22 J	--	--	--	--
Fluoranthene	100	mg/kg	1.4 U	12	3.9 J	1.7	--	--	--	--
Fluorene	30	mg/kg	1.5 U	1.2 J	1.1 U	0.11 U	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	1.6 U	2.4	1.4 J	0.67 J	--	--	--	--
Naphthalene	12	mg/kg	1.7 U	0.3 J	1.3 U	0.12 U	--	--	--	--
Phenanthrene	100	mg/kg	1.9 U	9.6	1.4 U	0.58 J	--	--	--	--
Pyrene	100	mg/kg	1.5 U	8.8	3.1 J	1.3	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	2.6 U	0.41 U	--	0.19 U	--	--	--	--
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	3.5 U	0.55 U	--	0.25 U	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	2.6 U	0.41 U	--	0.19 U	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	1.4 U	0.22 U	--	0.099 U	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	3.2 U	0.49 U	--	0.23 U	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	60 U	9.5 U	--	4.3 U	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	2.7 U	0.42 U	--	0.19 U	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	1.5 U	0.24 U	--	0.11 U	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	2.2 U	0.34 U	--	0.15 U	--	--	--	--
2-Chlorophenol	NE	mg/kg	2.4 U	0.37 U	--	0.17 U	--	--	--	--
2-Methylphenol	0.33	mg/kg	1.5 U	0.24 U	--	0.11 U	--	--	--	--
2-Nitroaniline	NE	mg/kg	1.9 U	0.3 U	--	0.14 U	--	--	--	--
2-Nitrophenol	NE	mg/kg	3.7 U	0.58 U	--	0.26 U	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	15 U	2.4 U	--	1.1 U	--	--	--	--
3-Nitroaniline	NE	mg/kg	3.6 U	0.57 U	--	0.26 U	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-54	SS-54	SS-55	SS-55	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01
	Unrestricted Use	Units	0-2" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	4 - 4.7' 2/20/2020	8 - 9' 2/20/2020	10 - 10.5' 2/20/2020	12 - 13' 2/20/2020
4,6-Dinitro-o-cresol	NE	mg/kg	13 U	2.1 U	--	0.94 U	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	1.8 U	0.29 U	--	0.13 U	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	3.2 U	0.51 U	--	0.23 U	--	--	--	--
4-Chloroaniline	NE	mg/kg	3.2 U	0.51 U	--	0.23 U	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	1.6 U	0.25 U	--	0.12 U	--	--	--	--
4-Methylphenol	0.33	mg/kg	1.5 U	0.24 U	--	0.11 U	--	--	--	--
4-Nitroaniline	NE	mg/kg	6.9 U	1.1 U	--	0.49 U	--	--	--	--
4-Nitrophenol	NE	mg/kg	9.2 U	1.4 U	--	0.66 U	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	4.5 U	0.71 U	--	0.33 U	--	--	--	--
Benzaldehyde	NE	mg/kg	10 U	1.6 U	--	0.74 U	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	2.2 U	0.34 U	--	0.15 U	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	1.9 U	0.3 U	--	0.14 U	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	2.8 U	0.43 U	--	0.2 U	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	1.7 U	0.27 U	--	0.12 U	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	2.6 U	0.41 U	--	0.19 U	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	4.5 U	0.7 U	--	0.32 U	--	--	--	--
Caprolactam	NE	mg/kg	3.9 U	0.62 U	--	0.28 U	--	--	--	--
Carbazole	NE	mg/kg	1.5 U	1.4 J	--	0.11 U	--	--	--	--
Dibenzofuran	7	mg/kg	1.5 U	0.67 J	--	0.11 U	--	--	--	--
Diethyl phthalate	NE	mg/kg	1.7 U	0.27 U	--	0.12 U	--	--	--	--
Dimethyl phthalate	NE	mg/kg	1.5 U	0.24 U	--	0.11 U	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	2.2 U	0.35 U	--	0.16 U	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	1.5 U	0.24 U	--	0.11 U	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	1.8 U	0.28 U	--	0.13 U	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	1.9 U	0.3 U	--	0.14 U	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	1.8 U	0.28 U	--	0.13 U	--	--	--	--
Hexachloroethane	NE	mg/kg	1.7 U	0.27 U	--	0.12 U	--	--	--	--
Isophorone	NE	mg/kg	2.8 U	0.43 U	--	0.2 U	--	--	--	--
Nitrobenzene	NE	mg/kg	1.5 U	0.23 U	--	0.1 U	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	2.2 U	0.35 U	--	0.16 U	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	11 U	1.7 U	--	0.76 U	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	13 U	2.1 U	--	0.94 U	--	--	--	--
Phenol	0.33	mg/kg	2 U	0.31 U	--	0.14 U	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-54	SS-54	SS-55	SS-55	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01
	Unrestricted Use	Units	0-2" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	4 - 4.7' 2/20/2020	8 - 9' 2/20/2020	10 - 10.5' 2/20/2020	12 - 13' 2/20/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	0.0033	mg/kg	0.02 U	0.062 J-	--	0.0073 U	--	--	--	--
4,4'-DDE	0.0033	mg/kg	0.022 U	0.036 J-	--	0.0079 U	--	--	--	--
4-4'-DDT	0.0033	mg/kg	0.024 U	0.75 J+	--	0.0088 U	--	--	--	--
Aldrin	0.005	mg/kg	0.025 U	0.0098 U	--	0.0092 U	--	--	--	--
alpha-BHC	0.02	mg/kg	0.019 U	0.059 J+	--	0.0067 U	--	--	--	--
beta-BHC	0.036	mg/kg	0.019 U	0.035 J	--	0.0067 U	--	--	--	--
Chlordane, alpha	0.094	mg/kg	0.051 U	0.02 U	--	0.019 U	--	--	--	--
Chlordane, beta	NE	mg/kg	0.033 U	0.013 U	--	0.012 U	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	0.019 U	0.015 J+	--	0.007 U	--	--	--	--
Dieldrin	0.005	mg/kg	0.025 U	0.0096 U	--	0.009 U	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	0.019 U	0.058 J-	--	0.007 U	--	--	--	--
Endosulfan-I	2.4	mg/kg	0.02 U	0.0077 U	--	0.0072 U	--	--	--	--
Endosulfan-II	2.4	mg/kg	0.019 U	0.28 J+	--	0.0067 U	--	--	--	--
Endrin	0.014	mg/kg	0.02 U	0.27 R	--	0.0074 U	--	--	--	--
Endrin aldehyde	NE	mg/kg	0.026 U	0.2 J-	--	0.0096 U	--	--	--	--
Endrin ketone	NE	mg/kg	0.025 U	0.19 R	--	0.0092 U	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	0.019 U	0.021 J-	--	0.0069 U	--	--	--	--
Heptachlor	0.042	mg/kg	0.022 U	0.0086 U	--	0.0081 U	--	--	--	--
Heptachlor epoxide	NE	mg/kg	0.027 U	0.01 U	--	0.0097 U	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.021 U	0.85	--	0.0076 U	--	--	--	--
Toxaphene	NE	mg/kg	0.6 U	8.7	--	0.22 U	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.059 U	0.047 U	--	0.048 U	--	--	--	--
Aroclor 1221	NE	mg/kg	0.059 U	0.047 U	--	0.048 U	--	--	--	--
Aroclor 1232	NE	mg/kg	0.059 U	0.047 U	--	0.048 U	--	--	--	--
Aroclor 1242	NE	mg/kg	0.059 U	0.047 U	--	0.048 U	--	--	--	--
Aroclor 1248	NE	mg/kg	0.059 U	0.047 U	--	0.048 U	--	--	--	--
Aroclor 1254	NE	mg/kg	0.14 U	0.11 U	--	0.12 U	--	--	--	--
Aroclor 1260	NE	mg/kg	0.14 U	0.11 U	--	0.12 U	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	ND	ND	--	ND	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-54	SS-54	SS-55	SS-55	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01	BC-FE-SB-01
	Unrestricted Use	Units	0-2" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	4 - 4.7' 2/20/2020	8 - 9' 2/20/2020	10 - 10.5' 2/20/2020	12 - 13' 2/20/2020
Inorganics										
Aluminum	NE	mg/kg	7650 J+	10900 J+	--	13800 J+	--	--	--	--
Antimony	NE	mg/kg	1.2 J	0.5 U	--	0.44 U	--	--	--	--
Arsenic	13	mg/kg	2.9 J	4.6	--	5.1 J+	--	--	--	--
Barium	350	mg/kg	120	166	--	124 J-	--	--	--	--
Beryllium	7.2	mg/kg	0.43	0.36	--	0.42	--	--	--	--
Cadmium	2.5	mg/kg	0.53	0.3	--	0.21 J	--	--	--	--
Calcium	NE	mg/kg	14600	5550	--	16800 J+	--	--	--	--
Chromium	1	mg/kg	30.5	28.2	--	36.8 J	--	--	--	--
Cobalt	NE	mg/kg	5.5	6.6	--	10.2 J+	--	--	--	--
Copper	50	mg/kg	70	37.8	--	26.6 J-	--	--	--	--
Iron	NE	mg/kg	22800	16700	--	19700 J	--	--	--	--
Lead	63	mg/kg	40.9	41.9	--	28.2 J+	--	--	--	--
Magnesium	NE	mg/kg	4800 J+	5580 J+	--	14600 J-	--	--	--	--
Manganese	1600	mg/kg	419	279	--	224 J+	--	--	--	--
Mercury	0.18	mg/kg	0.25	0.28	--	0.4	--	--	--	--
Nickel	30	mg/kg	24	34.7	--	26.7 J	--	--	--	--
Potassium	NE	mg/kg	1860 J+	2170 J+	--	3530 J	--	--	--	--
Selenium	3.9	mg/kg	0.64 U	0.5 U	--	0.44 U	--	--	--	--
Silver	2	mg/kg	0.32 U	0.25 J	--	0.22 U	--	--	--	--
Sodium	NE	mg/kg	205 J	152 J	--	308	--	--	--	--
Thallium	NE	mg/kg	0.48 U	0.38 U	--	0.33 U	--	--	--	--
Vanadium	NE	mg/kg	26.8	30.7	--	45.2 J	--	--	--	--
Zinc	109	mg/kg	630	120	--	63.2 J-	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
- J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
- UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
- p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
- H - Sample was prepped or analyzed beyond the specified holding time.
- F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
- * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
- NE - Not established.
- ND - Not detected
- (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted USE

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A	BC-SB-FE-2A	BC-SB-FE-2A
	Unrestricted Use	Units	4 - 5' 2/20/2020	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	14 - 14.8' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.00055 J	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	0.27 U	38 U	17 U	1.5 U	1.9 U	0.021 J	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	0.27 U	38 U	17 U	1.5 U	1.9 U	0.032 U	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	0.27 U	38 U	17 U	1.5 U	1.9 U	0.032 U	--	--	--	--
Acetone	0.05	mg/kg	0.27 U	38 U	17 U	1.5 U	1.9 U	0.1	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.16 J	0.0086	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
Bromomethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
Carbon disulfide	NE	mg/kg	0.055 U	7.6 U	3.3 U	5	1.3	0.6	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--
Chlorobenzene	1.1	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0019 J	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A	BC-SB-FE-2A	BC-SB-FE-2A
	Unrestricted Use	Units	4 - 5' 2/20/2020	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	14 - 14.8' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	
Chloroethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Chloroform	0.37	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0017 J	--	--	--	
Chloromethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
cis-1,2-Dichloroethene	0.25	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0017 J	0.83 U	0.16 U	0.91 U	
cis-1,3-Dichloropropene	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Cyclohexane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Dibromochloromethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	
Dichlorodifluoromethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--	
Ethylbenzene	1	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Ethylene Dibromide	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--	
Isopropylbenzene	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Methyl Acetate	NE	mg/kg	0.27 U	38 U	17 U	1.5 U	0.5 J	0.032 U	--	--	--	
Methyl cyclohexane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Methyl tert butyl ether	0.93	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Methylene chloride	0.05	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--	
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--	
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--	
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--	
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--	
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--	
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--	
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--	
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--	
Styrene	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--	
Tetrachloroethene	1.3	mg/kg	2.3	520	220	14	2.3	2.6	140	30	230	
Toluene	0.7	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0012 J	--	--	--	
trans-1,2-Dichloroethene	0.19	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
trans-1,3-Dichloropropene	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--	
Trichloroethene	0.47	mg/kg	0.055 U	7.6 U	3.3 U	0.24 J	0.38 U	0.0092	0.84 U	0.16 U	0.92 U	
Trichlorofluoromethane	NE	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--	
Vinyl chloride	0.02	mg/kg	0.055 U	7.6 U	3.3 U	0.29 U	0.38 U	0.0065 U	--	--	--	
Xylene (total)	0.26	mg/kg	0.11 U	15 U	6.7 U	0.58 U	0.77 U	0.013 U	--	--	--	

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A	BC-SB-FE-2A	BC-SB-FE-2A
	Unrestricted Use	Units	4 - 5' 2/20/2020	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	14 - 14.8' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Anthracene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Chrysene	1	mg/kg	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	--	--
Fluorene	30	mg/kg	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	--	--
Pyrene	100	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A	BC-SB-FE-2A	BC-SB-FE-2A
	Unrestricted Use	Units	4 - 5' 2/20/2020	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	14 - 14.8' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
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ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A	BC-SB-FE-2A	BC-SB-FE-2A
	Unrestricted Use	Units	4 - 5' 2/20/2020	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	14 - 14.8' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A	BC-SB-FE-2A	BC-SB-FE-2A
	Unrestricted Use	Units	4 - 5' 2/20/2020	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	14 - 14.8' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020
<i>Inorganics</i>											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	--	--	--	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use



TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives	Units	BC-SB-FE-2A	BC-SB-FE-2A	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03 (DUP)	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-05
	[6 NYCRR Subpart 375-6]		10-11'	12-13'	4 - 5'	6 - 7'	6 - 7'	8 - 8.4'	10 - 10.4'	12 - 13'	4 - 5'
	Unrestricted Use		6/5/2020	6/5/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.00043 J
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,1,2-Trichloroethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,1-Dichloroethane	0.27	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,1-Dichloroethene	0.33	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,2-Dichloroethane	0.02	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,2-Dichloropropane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	10 U	5.8 U	0.71 U	2.4 U	4.9 U	4 U	0.019 U
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	10 U	5.8 U	0.71 U	2.4 U	4.9 U	4 U	0.019 U
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	10 U	5.8 U	0.71 U	2.4 U	4.9 U	4 U	0.019 U
Acetone	0.05	mg/kg	--	--	10 U	5.8 U	0.71 U	2.4 U	4.9 U	4 U	0.015 J
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Bromomethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Carbon disulfide	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	2.4	0.0038 U
Carbon tetrachloride	0.76	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0016 J
Chlorobenzene	1.1	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-FE-2A	BC-SB-FE-2A	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03 (DUP)	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-05
	Unrestricted Use	Units	10-11' 6/5/2020	12-13' 6/5/2020	4 - 5' 2/20/2020	6 - 7' 2/20/2020	6 - 7' 2/20/2020	8 - 8.4' 2/20/2020	10 - 10.4' 2/20/2020	12 - 13' 2/20/2020	4 - 5' 2/20/2020
Chloroethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Chloroform	0.37	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0016 J
Chloromethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
cis-1,2-Dichloroethene	0.25	mg/kg	0.68 U	0.096 U	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
cis-1,3-Dichloropropene	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Cyclohexane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Dibromochloromethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Ethylene Dibromide	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Methyl Acetate	NE	mg/kg	--	--	10 U	5.8 U	0.71 U	2.4 U	4.9 U	4 U	0.019 U
Methyl cyclohexane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Methyl tert butyl ether	0.93	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Methylene chloride	0.05	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	76	2.1	120	80 J	3.9 J	35	48	8.6 J+	30
Toluene	0.7	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.00037 J
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
trans-1,3-Dichloropropene	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	0.68 U	0.096 U	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0016 J
Trichlorofluoromethane	NE	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	2 U	1.2 U	0.14 U	0.49 U	0.97 U	0.79 U	0.0038 U
Xylene (total)	0.26	mg/kg	--	--	4 U	2.3 U	0.29 U	0.97 U	1.9 U	1.6 U	0.0077 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-FE-2A	BC-SB-FE-2A	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03 (DUP)	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-05
	Unrestricted Use	Units	10-11'	12-13'	4 - 5'	6 - 7'	6 - 7'	8 - 8.4'	10 - 10.4'	12 - 13'	4 - 5'
			6/5/2020	6/5/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Anthracene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Chrysene	1	mg/kg	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	--	--
Fluorene	30	mg/kg	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	--	--
Pyrene	100	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-FE-2A	BC-SB-FE-2A	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03 (DUP)	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-05
	Unrestricted Use	Units	10-11' 6/5/2020	12-13' 6/5/2020	4 - 5' 2/20/2020	6 - 7' 2/20/2020	6 - 7' 2/20/2020	8 - 8.4' 2/20/2020	10 - 10.4' 2/20/2020	12 - 13' 2/20/2020	4 - 5' 2/20/2020	
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-FE-2A	BC-SB-FE-2A	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03 (DUP)	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03
	Unrestricted Use	Units	10-11' 6/5/2020	12-13' 6/5/2020	4 - 5' 2/20/2020	6 - 7' 2/20/2020	6 - 7' 2/20/2020	8 - 8.4' 2/20/2020	10 - 10.4' 2/20/2020	12 - 13' 2/20/2020	4 - 5' 2/20/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-FE-2A	BC-SB-FE-2A	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03 (DUP)	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-03	BC-FE-SB-05
	Unrestricted Use	Units	10-11' 6/5/2020	12-13' 6/5/2020	4 - 5' 2/20/2020	6 - 7' 2/20/2020	6 - 7' 2/20/2020	8 - 8.4' 2/20/2020	10 - 10.4' 2/20/2020	12 - 13' 2/20/2020	4 - 5' 2/20/2020
<i>Inorganics</i>											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	--	--	--	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCS-D) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05 (DUP)	BC-SB-1	BC-SB-1	BC-SB-1	BC-SB-2
	Unrestricted Use	Units	6 - 7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	12 - 13' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	0.029 U	0.57 U	1.7 U	3.4 U	16 U	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	0.029 U	0.57 U	1.7 U	3.4 U	16 U	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	0.029 U	0.57 U	1.7 U	3.4 U	16 U	--	--	--	--
Acetone	0.05	mg/kg	0.022 J	0.57 U	1.7 U	3.4 U	16 U	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Bromomethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Carbon disulfide	NE	mg/kg	0.0057 U	0.08 J	0.34 U	12	3.2 U	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Chlorobenzene	1.1	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05 (DUP)	BC-SB-1	BC-SB-1	BC-SB-1	BC-SB-2
	Unrestricted Use	Units	6 - 7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	12 - 13' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020
Chloroethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Chloroform	0.37	mg/kg	0.0038 J	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Chloromethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	0.00093 U	0.00055 U	0.18 U	0.12 U
cis-1,3-Dichloropropene	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Cyclohexane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Dibromochloromethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Ethylene Dibromide	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Methyl Acetate	NE	mg/kg	0.029 U	0.57 U	1.7 U	3.4 U	16 U	--	--	--	--
Methyl cyclohexane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Methylene chloride	0.05	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	5.4	11	27	61 J	210 J	22	15	35	19
Toluene	0.7	mg/kg	0.00046 J	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	0.0057 U	0.052 J	0.34 U	0.68 U	3.2 U	0.0016 U	0.00094 U	0.18 U	0.12 U
Trichlorofluoromethane	NE	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	0.0057 U	0.11 U	0.34 U	0.68 U	3.2 U	--	--	--	--
Xylene (total)	0.26	mg/kg	0.011 U	0.23 U	0.68 U	1.4 U	6.3 U	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05 (DUP)	BC-SB-1	BC-SB-1	BC-SB-1	BC-SB-2
	Unrestricted Use	Units	6 - 7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	12 - 13' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Anthracene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Chrysene	1	mg/kg	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	--	--
Fluorene	30	mg/kg	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	--	--
Pyrene	100	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05 (DUP)	BC-SB-1	BC-SB-1	BC-SB-1	BC-SB-2
	Unrestricted Use	Units	6 - 7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	12 - 13' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05 (DUP)	BC-SB-1	BC-SB-1	BC-SB-1	BC-SB-2
	Unrestricted Use	Units	6 - 7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	12 - 13' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05	BC-FE-SB-05 (DUP)	BC-SB-1	BC-SB-1	BC-SB-1	BC-SB-2
	Unrestricted Use	Units	6 - 7' 2/20/2020	8 - 9' 2/20/2020	10 - 11' 2/20/2020	12 - 13' 2/20/2020	12 - 13' 2/20/2020	4-5' 6/5/2020	6-7' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020
<i>Inorganics</i>											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	--	--	--	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCS-D) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives	Units	BC-SB-2	BC-SB-3	BC-SB-3	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-5
	[6 NYCRR Subpart 375-6]		10-11'	8-9'	10-11'	4-5'	6-7'	8-9'	10-11'	12-13'	6-7'
	Unrestricted Use		6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives	Units	BC-SB-2	BC-SB-3	BC-SB-3	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-5
	[6 NYCRR Subpart 375-6]		10-11'	8-9'	10-11'	4-5'	6-7'	8-9'	10-11'	12-13'	6-7'
	Unrestricted Use		6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	--	--	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	0.26 U	0.067 U	0.23 U	0.037 U	1.1 U	0.046 U	0.11 U	0.19 U	0.017 U
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	64	3.6	41	6.8	200	4.7	23	2.9	2.1
Toluene	0.7	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	0.27 U	0.068 U	0.23 U	0.037 U	1.2 U	0.046 U	0.11 U	0.2 U	0.017 U
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-2	BC-SB-3	BC-SB-3	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-5
	Unrestricted Use	Units	10-11' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	4-5' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	12-13' 6/5/2020	6-7' 6/5/2020
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Anthracene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Chrysene	1	mg/kg	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	--	--
Fluorene	30	mg/kg	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	--	--
Pyrene	100	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives	Units	BC-SB-2	BC-SB-3	BC-SB-3	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-5
	[6 NYCRR Subpart 375-6]		10-11'	8-9'	10-11'	4-5'	6-7'	8-9'	10-11'	12-13'	6-7'
	Unrestricted Use		6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020	6/5/2020
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-2	BC-SB-3	BC-SB-3	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-5
	Unrestricted Use	Units	10-11' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	4-5' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	12-13' 6/5/2020	6-7' 6/5/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-2	BC-SB-3	BC-SB-3	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-4	BC-SB-5
	Unrestricted Use	Units	10-11' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	4-5' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	12-13' 6/5/2020	6-7' 6/5/2020
<i>Inorganics</i>											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	--	--	--	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-5	BC-SB-5	BC-SB-6	BC-SB-6	BC-SB-6	BC-SB-7	BC-SB-7	BC-SB-8	BC-SB-8 (DUP)
	Unrestricted Use	Units	8-9' 6/5/2020	10-11' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	4-5' 6/5/2020	4-5' 6/5/2020
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Unrestricted Use	Units	BC-SB-5	BC-SB-5	BC-SB-6	BC-SB-6	BC-SB-6	BC-SB-7	BC-SB-7	BC-SB-8	BC-SB-8 (DUP)
			8-9' 6/5/2020	10-11' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	4-5' 6/5/2020	4-5' 6/5/2020
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	--	--	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	0.19 U	0.05 U	1.3 U	0.034 U	0.16 U	0.41 U	0.16 U	1.2 U	0.31 U
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	41	1.8 J+	380	3.4	25	55	4.3	200 J	61 J
Toluene	0.7	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	1	0.17 J+	3.1 J	0.034 U	0.16 U	0.41 U	0.16 U	1.2 U	0.31 U
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-5	BC-SB-5	BC-SB-6	BC-SB-6	BC-SB-6	BC-SB-7	BC-SB-7	BC-SB-8	BC-SB-8 (DUP)
	Unrestricted Use	Units	8-9' 6/5/2020	10-11' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	4-5' 6/5/2020	4-5' 6/5/2020
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Anthracene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Chrysene	1	mg/kg	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	--	--
Fluorene	30	mg/kg	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	--	--
Pyrene	100	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-5	BC-SB-5	BC-SB-6	BC-SB-6	BC-SB-6	BC-SB-7	BC-SB-7	BC-SB-8	BC-SB-8 (DUP)
	Unrestricted Use	Units	8-9' 6/5/2020	10-11' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	4-5' 6/5/2020	4-5' 6/5/2020
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-5	BC-SB-5	BC-SB-6	BC-SB-6	BC-SB-6	BC-SB-7	BC-SB-7	BC-SB-8	BC-SB-8 (DUP)
	Unrestricted Use	Units	8-9' 6/5/2020	10-11' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	4-5' 6/5/2020	4-5' 6/5/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-5	BC-SB-5	BC-SB-6	BC-SB-6	BC-SB-6	BC-SB-7	BC-SB-7	BC-SB-8	BC-SB-8 (DUP)
	Unrestricted Use	Units	8-9' 6/5/2020	10-11' 6/5/2020	6-7' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	8-9' 6/5/2020	10-11' 6/5/2020	4-5' 6/5/2020	4-5' 6/5/2020
<i>Inorganics</i>											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	--	--	--	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-8	BC-SB-10	BC-SB-10	BC-SB-10	BC-SB-10 (DUP)	BC-SB-11	BC-SB-12	BC-SB-12 (DUP)	BC-SB-12
	Unrestricted Use	Units	10-11' 6/5/2020	4-5' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021	14-15' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-8	BC-SB-10	BC-SB-10	BC-SB-10	BC-SB-10 (DUP)	BC-SB-11	BC-SB-12	BC-SB-12 (DUP)	BC-SB-12
	Unrestricted Use	Units	10-11' 6/5/2020	4-5' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021	14-15' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	0.37	mg/kg	--	--	--	--	--	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	0.25	mg/kg	0.15 U	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	0.05	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	27	67	28	3.4	3.3	4.3	4.7 J	3.1 J	4.5
Toluene	0.7	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	0.15 U	--	--	--	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-8	BC-SB-10	BC-SB-10	BC-SB-10	BC-SB-10 (DUP)	BC-SB-11	BC-SB-12	BC-SB-12 (DUP)	BC-SB-12
	Unrestricted Use	Units	10-11' 6/5/2020	4-5' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021	14-15' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Anthracene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Chrysene	1	mg/kg	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	--	--
Fluorene	30	mg/kg	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	--	--
Pyrene	100	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-8	BC-SB-10	BC-SB-10	BC-SB-10	BC-SB-10 (DUP)	BC-SB-11	BC-SB-12	BC-SB-12 (DUP)	BC-SB-12
	Unrestricted Use	Units	10-11' 6/5/2020	4-5' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021	14-15' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-8	BC-SB-10	BC-SB-10	BC-SB-10	BC-SB-10 (DUP)	BC-SB-11	BC-SB-12	BC-SB-12 (DUP)	BC-SB-12
	Unrestricted Use	Units	10-11' 6/5/2020	4-5' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021	14-15' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	--	--
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-8	BC-SB-10	BC-SB-10	BC-SB-10	BC-SB-10 (DUP)	BC-SB-11	BC-SB-12	BC-SB-12 (DUP)	BC-SB-12
	Unrestricted Use	Units	10-11' 6/5/2020	4-5' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021	14-15' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	9-10' 3/24/2021	14-15' 3/24/2021
<i>Inorganics</i>											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	13	mg/kg	--	--	--	--	--	--	--	--	--
Barium	350	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	1	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	50	mg/kg	--	--	--	--	--	--	--	--	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	63	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	1600	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	30	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	--	--
Silver	2	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	109	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCS-D) is outside acceptance limits
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-13	BC-SB-14	BC-SB-15	BC-SB-15	BC-SB-21	BC-SB-21	BC-SB-24	MW-4	MW-5
	Unrestricted Use	Units	9-10' 3/24/2021	9-10' 3/24/2021	4-5' 3/25/2021	9-10' 3/25/2021	4-5' 3/25/2021	9-10' 3/25/2021	9-10' 3/26/2021	15-17.5' 4/30/2019	15-17.5' 4/29/2019
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
1,1-Dichloroethane	0.27	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
1,1-Dichloroethene	0.33	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.00089 UF1	0.00096 UH
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.00089 UF1	0.00096 UH
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	0.00089 UF1	0.00034 JH
1,2-Dichloroethane	0.02	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	--	--	--	--	--	--	--	0.00089 UF1	0.00096 UH
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	--	--	--	--	--	--	--	0.00089 UF1	0.00042 JH
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	--	--	--	--	--	--	--	0.018 U	0.019 UH
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	--	--	--	--	--	--	--	0.0016 J	0.045 H
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	0.0044 U	0.0048 UH
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	0.0044 U	0.0048 UH
Acetone	0.05	mg/kg	--	--	--	--	--	--	--	0.017	0.23 H
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.013 H
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	0.012 F1	0.18 H
Carbon tetrachloride	0.76	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Chlorobenzene	1.1	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.0049 H
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-13	BC-SB-14	BC-SB-15	BC-SB-15	BC-SB-21	BC-SB-21	BC-SB-24	MW-4	MW-5
	Unrestricted Use	Units	9-10' 3/24/2021	9-10' 3/24/2021	4-5' 3/25/2021	9-10' 3/25/2021	4-5' 3/25/2021	9-10' 3/25/2021	9-10' 3/26/2021	15-17.5' 4/30/2019	15-17.5' 4/29/2019
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Chloroform	0.37	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
cis-1,2-Dichloroethene	0.25	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00058 JH
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00049 JH
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	0.00089 UF1	0.00019 JH
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	0.0044 U	0.0079 H
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.0003 JH
Methyl tert butyl ether	0.93	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Methylene chloride	0.05	mg/kg	--	--	--	--	--	--	--	0.00032 J	0.001 H
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00038 JH
p/m-Xylene	0.26	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00056 JH
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	11	8.4	15	19	7	39	3.5	0.00089 U	0.014 H
Toluene	0.7	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.0016 H
trans-1,2-Dichloroethene	0.19	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.0047 H
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	--	--	--	--	--	--	--	0.00089 U	0.00096 UH
Xylene (total)	0.26	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-13	BC-SB-14	BC-SB-15	BC-SB-15	BC-SB-21	BC-SB-21	BC-SB-24	MW-4	MW-5
	Unrestricted Use	Units	9-10' 3/24/2021	9-10' 3/24/2021	4-5' 3/25/2021	9-10' 3/25/2021	4-5' 3/25/2021	9-10' 3/25/2021	9-10' 3/26/2021	15-17.5' 4/30/2019	15-17.5' 4/29/2019
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Acenaphthylene	100	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Anthracene	100	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Benz(a)anthracene	1	mg/kg	--	--	--	--	--	--	--	0.04 F1	0.044 U
Benzo(a)pyrene	1	mg/kg	--	--	--	--	--	--	--	0.038 UF1	0.044 U
Benzo(b)fluoranthene	1	mg/kg	--	--	--	--	--	--	--	0.033 JF1	0.044 U
Benzo(g,h,i)perylene	100	mg/kg	--	--	--	--	--	--	--	0.38 U	0.44 U
Benzo(k)fluoranthene	0.8	mg/kg	--	--	--	--	--	--	--	0.019 JF1	0.044 U
Chrysene	1	mg/kg	--	--	--	--	--	--	--	0.028 JF1	0.44 U
Dibenz(a,h)anthracene	0.33	mg/kg	--	--	--	--	--	--	--	0.038 UF1	0.044 U
Fluoranthene	100	mg/kg	--	--	--	--	--	--	--	0.048 JF1	0.44 U
Fluorene	30	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	--	--	--	--	--	--	--	0.038 U	0.044 U
Naphthalene	12	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Phenanthrene	100	mg/kg	--	--	--	--	--	--	--	0.039 JF1	0.44 U
Pyrene	100	mg/kg	--	--	--	--	--	--	--	0.04 JF1	0.44 U
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.022 J
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.15 UF1	0.18 U
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.15 UF1	0.18 U
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	0.31 UF1	0.35 U
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	0.078 UF1	0.088 U
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	0.078 UF1	0.088 U
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
2-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	0.38 U	0.44 U
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	0.15 U	0.18 U
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	0.38 U	0.44 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-13	BC-SB-14	BC-SB-15	BC-SB-15	BC-SB-21	BC-SB-21	BC-SB-24	MW-4	MW-5
	Unrestricted Use	Units	9-10' 3/24/2021	9-10' 3/24/2021	4-5' 3/25/2021	9-10' 3/25/2021	4-5' 3/25/2021	9-10' 3/25/2021	9-10' 3/26/2021	15-17.5' 4/30/2019	15-17.5' 4/29/2019
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	0.31 UF1	0.35 U
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	0.38 U	0.44 U
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	0.38 U	0.44 U
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	0.78 U	0.88 U
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	0.15 UF1	0.18 U
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	0.038 UF1	0.044 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Dibenzofuran	7	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Hexachlorobenzene	0.33	mg/kg	--	--	--	--	--	--	--	0.038 UF1	0.044 U
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	0.078 UF1	0.088 U
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	0.038 UF1	0.044 U
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	0.15 UF1	0.18 U
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.038 UF1	0.044 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	0.038 UF1	0.044 U
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	0.38 UF1	0.44 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	--	--	--	--	--	--	--	0.31 UF1	0.35 U
Phenol	0.33	mg/kg	--	--	--	--	--	--	--	0.38 U	0.44 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-13	BC-SB-14	BC-SB-15	BC-SB-15	BC-SB-21	BC-SB-21	BC-SB-24	MW-4	MW-5
	Unrestricted Use	Units	9-10' 3/24/2021	9-10' 3/24/2021	4-5' 3/25/2021	9-10' 3/25/2021	4-5' 3/25/2021	9-10' 3/25/2021	9-10' 3/26/2021	15-17.5' 4/30/2019	15-17.5' 4/29/2019
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	0.0033	mg/kg	--	--	--	--	--	--	--	0.0078 UF1	0.0089 U
4,4'-DDE	0.0033	mg/kg	--	--	--	--	--	--	--	0.0078 UF1	0.0089 U
4-4'-DDT	0.0033	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
Aldrin	0.005	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
alpha-BHC	0.02	mg/kg	--	--	--	--	--	--	--	0.0023 U	0.0027 U
beta-BHC	0.036	mg/kg	--	--	--	--	--	--	--	0.0023 U	0.0027 U
Chlordane, alpha	0.094	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	0.094	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	--	--	--	--	--	--	--	0.0023 U	0.0027 U
Dieldrin	0.005	mg/kg	--	--	--	--	--	--	--	0.0023 U	0.0027 U
Endosulfan sulfate	2.4	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
Endosulfan-I	2.4	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
Endosulfan-II	2.4	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
Endrin	0.014	mg/kg	--	--	--	--	--	--	--	0.0078 UF1	0.0089 U
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	0.0023 U	0.0027 U
Heptachlor	0.042	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
Lindane	0.1	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	0.0078 U	0.0089 U
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
Aroclor 1221	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
Aroclor 1232	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
Aroclor 1242	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
Aroclor 1248	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
Aroclor 1254	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
Aroclor 1260	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
Aroclor 1268	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
Aroclor-1262	NE	mg/kg	--	--	--	--	--	--	--	0.078 U	0.089 U
Total PCBs	0.1	mg/kg	--	--	--	--	--	--	--	ND	ND

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-SB-13	BC-SB-14	BC-SB-15	BC-SB-15	BC-SB-21	BC-SB-21	BC-SB-24	MW-4	MW-5
	Unrestricted Use	Units	9-10' 3/24/2021	9-10' 3/24/2021	4-5' 3/25/2021	9-10' 3/25/2021	4-5' 3/25/2021	9-10' 3/25/2021	9-10' 3/26/2021	15-17.5' 4/30/2019	15-17.5' 4/29/2019
<i>Inorganics</i>											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	4150	7060
Antimony	NE	mg/kg	--	--	--	--	--	--	--	4.6 UF1	5.2 U
Arsenic	13	mg/kg	--	--	--	--	--	--	--	3.5 U	1.5 J
Barium	350	mg/kg	--	--	--	--	--	--	--	28.6 J	56.7
Beryllium	7.2	mg/kg	--	--	--	--	--	--	--	0.46 U	0.25 J
Cadmium	2.5	mg/kg	--	--	--	--	--	--	--	0.93 U	1 U
Calcium	NE	mg/kg	--	--	--	--	--	--	--	1050 J	1480
Chromium	1	mg/kg	--	--	--	--	--	--	--	13.1	23.9
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	3 J	5.2 J
Copper	50	mg/kg	--	--	--	--	--	--	--	3.8 J	12
Iron	NE	mg/kg	--	--	--	--	--	--	--	6860	11200
Lead	63	mg/kg	--	--	--	--	--	--	--	2.5	3.4
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	1930	2860
Manganese	1600	mg/kg	--	--	--	--	--	--	--	59.1	77.8
Mercury	0.18	mg/kg	--	--	--	--	--	--	--	0.019 U	0.021 U
Nickel	30	mg/kg	--	--	--	--	--	--	--	8.6 J	17.5
Potassium	NE	mg/kg	--	--	--	--	--	--	--	887 J	1300
Selenium	3.9	mg/kg	--	--	--	--	--	--	--	4.6 U	5.2 U
Silver	2	mg/kg	--	--	--	--	--	--	--	2.3 U	2.6 U
Sodium	NE	mg/kg	--	--	--	--	--	--	--	121 J	282 J
Thallium	NE	mg/kg	--	--	--	--	--	--	--	4.6 U	5.2 U
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	10 J	18
Zinc	109	mg/kg	--	--	--	--	--	--	--	26.6	42.5
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCS-D) is outside acceptance limits
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		MW-6	MW-6 (DUP)	MW-7	MW-8	MW-9	MW-9 (DUP)	MW-10
	Unrestricted Use	Units	15-17' 4/30/2019	15-17' 4/30/2019	15-17.5' 4/29/2019	16 - 18' 2/19/2020	10 - 11.8' 2/19/2020	10 - 11.8' 2/19/2020	15 - 16' 2/18/2020
Volatile Organic Compounds (VOCs)									
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--
1,1,1-Trichloroethane	0.68	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,1,2,2-Tetrachloroethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,1,2-Trichloroethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,1-Dichloroethane	0.27	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,1-Dichloroethene	0.33	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 U	0.95 U	0.78 U	0.93 U
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,2,4-Trimethylbenzene	3.6	mg/kg	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	1.1	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,2-Dichloroethane	0.02	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 U	0.95 U	0.78 U	0.93 U
1,2-Dichloropropane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,3,5-Trimethylbenzene	8.4	mg/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	2.4	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--
1,4-Dichlorobenzene	1.8	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--
1,4-Dioxane	0.1	mg/kg	0.017 U	0.018 U	0.018 UH	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--
2-Butanone (MEK)	0.12	mg/kg	0.0027 J	0.0019 J	0.0041 JH	0.99 J-	0.35 J	0.12 J+	0.56
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	0.0043 U	0.0044 U	0.0045 UH	0.46 UJ	0.47 U	0.39 U	0.47 U
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	0.0043 U	0.0044 U	0.0045 UH	0.46 UJ	0.47 U	0.39 U	0.47 U
Acetone	0.05	mg/kg	0.032	0.046	0.093 H	0.44 J	0.37 J	0.62 J+	0.5
Acrolein	NE	mg/kg	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--
Benzene	0.06	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Bromomethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 U	0.95 U	0.78 U	0.93 U
Carbon disulfide	NE	mg/kg	0.12	0.14	0.0053 H	0.18 J+	0.23 J	0.15 J+	0.28 J
Carbon tetrachloride	0.76	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Chlorobenzene	1.1	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Chlorobromomethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	--	--	--	--
Chlorodibromomethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		MW-6	MW-6 (DUP)	MW-7	MW-8	MW-9	MW-9 (DUP)	MW-10
	Unrestricted Use	Units	15-17' 4/30/2019	15-17' 4/30/2019	15-17.5' 4/29/2019	16-18' 2/19/2020	10-11.8' 2/19/2020	10-11.8' 2/19/2020	15-16' 2/18/2020
Chloroethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 U	0.95 U	0.78 U	0.93 U
Chloroform	0.37	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Chloromethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 U	0.95 U	0.78 U	0.93 U
cis-1,2-Dichloroethene	0.25	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.69 J
cis-1,3-Dichloropropene	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Cyclohexane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Dibromochloromethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 U	0.95 U	0.78 U	0.93 U
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--
Ethylbenzene	1	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Ethylene Dibromide	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Methyl Acetate	NE	mg/kg	0.0043 U	0.0044 U	0.0041 JH	0.46 U	0.47 U	0.39 U	0.47 U
Methyl cyclohexane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
Methyl tert butyl ether	0.93	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.14 J+	0.93 U
Methylene chloride	0.05	mg/kg	0.0025	0.0048	0.0017 H	0.12 J-	0.86 J	0.93 J+	0.81 J
Naphthalene	12	mg/kg	--	--	--	--	--	--	--
n-Butylbenzene	12	mg/kg	--	--	--	--	--	--	--
n-Propylbenzene	3.9	mg/kg	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--
o-Xylene	0.26	mg/kg	0.00087 U	0.00089 U	0.00091 UH	--	--	--	--
p/m-Xylene	0.26	mg/kg	0.00087 U	0.00089 U	0.00091 UH	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--
sec-Butylbenzene	11	mg/kg	--	--	--	--	--	--	--
Styrene	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
tert-Butylbenzene	5.9	mg/kg	--	--	--	--	--	--	--
Tetrachloroethene	1.3	mg/kg	0.00032 J	0.00028 J	0.00091 UH	0.79 J-	0.95 U	0.78 U	0.93 U
Toluene	0.7	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.65 J-	0.18	0.15 J+	0.12
trans-1,2-Dichloroethene	0.19	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
trans-1,3-Dichloropropene	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 UJ	0.95 U	0.78 U	0.93 U
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--
Trichloroethene	0.47	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.39 J-	0.95 U	0.78 U	0.93 U
Trichlorofluoromethane	NE	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 U	0.95 U	0.78 U	0.93 U
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--
Vinyl chloride	0.02	mg/kg	0.00087 U	0.00089 U	0.00091 UH	0.93 U	0.95 U	0.78 U	0.93 U
Xylene (total)	0.26	mg/kg	--	--	--	0.19 UJ	0.19 U	0.16 U	0.19 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		MW-6	MW-6 (DUP)	MW-7	MW-8	MW-9	MW-9 (DUP)	MW-10
	Unrestricted Use	Units	15-17' 4/30/2019	15-17' 4/30/2019	15-17.5' 4/29/2019	16 - 18' 2/19/2020	10 - 11.8' 2/19/2020	10 - 11.8' 2/19/2020	15 - 16' 2/18/2020
Semi-Volatile Organic Compounds (SVOCs)									
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	20	mg/kg	0.21 J	0.086 J	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Acenaphthylene	100	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Anthracene	100	mg/kg	0.042 J	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Benz(a)anthracene	1	mg/kg	0.023 J	0.034 J	0.039 U	0.19 U	0.18 U	0.18 U	0.69 J
Benzo(a)pyrene	1	mg/kg	0.038 U	0.018 J	0.039 U	0.19 U	0.18 U	0.18 U	0.54 J
Benzo(b)fluoranthene	1	mg/kg	0.022 J	0.029 J	0.039 U	0.19 U	0.18 U	0.18 U	0.63 J
Benzo(g,h,i)perylene	100	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	0.35 J
Benzo(k)fluoranthene	0.8	mg/kg	0.011 J	0.013 J	0.039 U	0.19 U	0.18 U	0.18 U	0.33 J
Chrysene	1	mg/kg	0.016 J	0.023 J	0.39 U	0.19 U	0.18 U	0.18 U	0.63 J
Dibenz(a,h)anthracene	0.33	mg/kg	0.038 U	0.037 U	0.039 U	0.19 U	0.18 U	0.18 U	1 U
Fluoranthene	100	mg/kg	0.5	0.14 J	0.023 J	0.19 U	0.18 U	0.18 U	0.64 J
Fluorene	30	mg/kg	0.27 J	0.072 J	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.038 U	0.018 J	0.039 U	0.19 U	0.18 U	0.18 U	0.33 J
Naphthalene	12	mg/kg	0.03 J	0.022 J	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Phenanthrene	100	mg/kg	0.59	0.17 J	0.031 J	0.19 U	0.18 U	0.18 U	1 U
Pyrene	100	mg/kg	0.23 J	0.087 J	0.39 U	0.19 U	0.18 U	0.18 U	0.58 J
2-Methylnaphthalene	NE	mg/kg	0.033 J	0.016 J	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Other SVOCs									
1,1'-Biphenyl	NE	mg/kg	0.38 U	0.37 U	0.39 U	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	0.38 U	0.37 U	0.39 U	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--
1,4-Dioxane	NE	mg/kg	--	--	--	0.11 U	0.11 U	0.11 U	0.59 U
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	0.38 U	0.37 U	0.39 U	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
2,4,6-Trichlorophenol	NE	mg/kg	0.15 U	0.15 U	0.16 U	0.19 U	0.18 U	0.18 U	1 U
2,4-Dichlorophenol	NE	mg/kg	0.15 U	0.15 U	0.16 U	0.19 U	0.18 U	0.18 U	1 U
2,4-Dimethylphenol	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
2,4-Dinitrophenol	NE	mg/kg	0.3 U	0.3 U	0.31 U	1.9 U	1.8 U	1.8 U	9.7 U
2,4-Dinitrotoluene	NE	mg/kg	0.076 U	0.074 U	0.078 U	0.19 U	0.18 U	0.18 U	1 U
2,6-Dinitrotoluene	NE	mg/kg	0.076 U	0.074 U	0.078 U	0.19 U	0.18 U	0.18 U	1 U
2-Chloronaphthalene	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
2-Chlorophenol	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.37 U	0.35 U	0.35 U	1.9 U
2-Methylphenol	0.33	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
2-Nitroaniline	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.37 U	0.35 U	0.35 U	1.9 U
2-Nitrophenol	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
3&4-Methylphenol	0.33	mg/kg	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	0.15 U	0.15 U	0.16 U	0.37 U	0.35 U	0.35 U	1.9 U
3-Nitroaniline	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.37 U	0.35 U	0.35 U	1.9 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		MW-6	MW-6 (DUP)	MW-7	MW-8	MW-9	MW-9 (DUP)	MW-10
	Unrestricted Use	Units	15-17' 4/30/2019	15-17' 4/30/2019	15-17.5' 4/29/2019	16 - 18' 2/19/2020	10 - 11.8' 2/19/2020	10 - 11.8' 2/19/2020	15 - 16' 2/18/2020
4,6-Dinitro-o-cresol	NE	mg/kg	0.3 U	0.3 U	0.31 U	0.37 U	0.35 U	0.35 U	1.9 U
4-Bromophenyl phenyl ether	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
4-Chloro-3-methyl phenol	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
4-Chloroaniline	NE	mg/kg	0.38 U	0.08 J	0.39 U	0.19 U	0.18 U	0.18 U	1 U
4-Chlorophenyl phenyl ether	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
4-Methylphenol	0.33	mg/kg	0.38 U	0.37 U	0.39 U	0.37 U	0.35 U	0.35 U	1.9 U
4-Nitroaniline	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.37 U	0.35 U	0.35 U	1.9 U
4-Nitrophenol	NE	mg/kg	0.76 U	0.74 U	0.78 U	0.37 U	0.35 U	0.35 U	1.9 U
Acetophenone	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Atrazine	NE	mg/kg	0.15 U	0.15 U	0.16 U	0.19 U	0.18 U	0.18 U	1 U
Benzaldehyde	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Benzidine	NE	mg/kg	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	0.19 U	0.18 U	0.18 U	1 U
bis(2-Chloroethoxy)methane	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
bis(2-Chloroethyl)ether	NE	mg/kg	0.038 U	0.037 U	0.039 U	0.19 U	0.18 U	0.18 U	1 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Butyl benzyl phthalate	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Caprolactam	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Carbazole	NE	mg/kg	0.02 J	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Dibenzofuran	7	mg/kg	0.16 J	0.065 J	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Diethyl phthalate	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Dimethyl phthalate	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Di-n-butyl phthalate	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Di-n-octyl phthalate	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Hexachlorobenzene	0.33	mg/kg	0.038 U	0.037 U	0.039 U	0.19 U	0.18 U	0.18 U	1 U
Hexachlorobutadiene	NE	mg/kg	0.076 U	0.074 U	0.078 U	0.19 U	0.18 U	0.18 U	1 U
Hexachlorocyclopentadiene	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
Hexachloroethane	NE	mg/kg	0.038 U	0.037 U	0.039 U	0.19 U	0.18 U	0.18 U	1 U
Isophorone	NE	mg/kg	0.15 U	0.15 U	0.16 U	0.19 U	0.18 U	0.18 U	1 U
Nitrobenzene	NE	mg/kg	0.038 U	0.037 U	0.039 U	0.19 U	0.18 U	0.18 U	1 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	0.038 U	0.037 U	0.039 U	0.19 U	0.18 U	0.18 U	1 U
N-Nitrosodiphenylamine	NE	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--
Pentachlorophenol	0.8	mg/kg	0.3 U	0.3 U	0.31 U	0.37 U	0.35 U	0.35 U	1.9 U
Phenol	0.33	mg/kg	0.38 U	0.37 U	0.39 U	0.19 U	0.18 U	0.18 U	1 U

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		MW-6	MW-6 (DUP)	MW-7	MW-8	MW-9	MW-9 (DUP)	MW-10
	Unrestricted Use	Units	15-17' 4/30/2019	15-17' 4/30/2019	15-17.5' 4/29/2019	16 - 18' 2/19/2020	10 - 11.8' 2/19/2020	10 - 11.8' 2/19/2020	15 - 16' 2/18/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>									
4,4'-DDD	0.0033	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.0062 J+	0.0019 U
4,4'-DDE	0.0033	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.0019 U
4-4'-DDT	0.0033	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.00083 J
Aldrin	0.005	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.0019 U
alpha-BHC	0.02	mg/kg	0.0023 U	0.0022 U	0.0023 U	0.018 U	0.018 U	0.0041 J-	0.0019 U
beta-BHC	0.036	mg/kg	0.0023 U	0.0022 U	0.0023 U	0.018 U	0.0048 J-	0.018 U	0.0019 U
Chlordane, alpha	0.094	mg/kg	--	--	--	0.0068 J+	0.0042 J-	0.0054 J+	0.0019 U
Chlordane, beta	NE	mg/kg	--	--	--	0.018 U	0.0039 J+	0.0038 J-	0.0019 U
Chlordane	0.094	mg/kg	0.076 U	0.075 U	0.078 U	0.018 U	0.018 U	0.018 U	0.0019 U
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--
delta-BHC	0.04	mg/kg	0.0023 U	0.0022 U	0.0023 U	0.018 U	0.018 U	0.018 U	0.0019 U
Dieldrin	0.005	mg/kg	0.0023 U	0.0022 U	0.0023 U	--	--	--	--
Endosulfan sulfate	2.4	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.0019 U
Endosulfan-I	2.4	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.0019 U
Endosulfan-II	2.4	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.0019 U
Endrin	0.014	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.0042 J	0.018 U	0.018 U	0.0019 U
Endrin aldehyde	NE	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.0019 U
Endrin ketone	NE	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.0047 J-	0.00055 J
gamma-BHC (Lindane)	NE	mg/kg	0.0023 U	0.0022 U	0.0023 U	0.018 U	0.018 U	0.0074 J-	0.0019 U
Heptachlor	0.042	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.0019 U
Heptachlor epoxide	NE	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.0019 U
Lindane	0.1	mg/kg	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.0076 U	0.0075 U	0.0078 U	0.018 U	0.018 U	0.018 U	0.0019 U
Toxaphene	NE	mg/kg	0.076 U	0.075 U	0.078 U	0.018 U	0.018 U	0.018 U	0.019 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--
Aroclor 1016	NE	mg/kg	0.076 U	0.075 U	0.078 U	0.23 U	0.25 U	0.24 U	0.23 U
Aroclor 1221	NE	mg/kg	0.076 U	0.075 U	0.078 U	0.23 U	0.25 U	0.24 U	0.23 U
Aroclor 1232	NE	mg/kg	0.076 U	0.075 U	0.078 U	0.23 U	0.25 U	0.24 U	0.23 U
Aroclor 1242	NE	mg/kg	0.076 U	0.075 U	0.078 U	0.23 U	0.25 U	0.24 U	0.23 U
Aroclor 1248	NE	mg/kg	0.076 U	0.075 U	0.078 U	0.23 U	0.25 U	0.24 U	0.23 U
Aroclor 1254	NE	mg/kg	0.076 U	0.075 U	0.078 U	0.23 U	0.25 U	0.24 U	0.23 U
Aroclor 1260	NE	mg/kg	0.076 U	0.075 U	0.078 U	0.23 U	0.25 U	0.24 U	0.23 U
Aroclor 1268	NE	mg/kg	0.076 U	0.075 U	0.078 U	--	--	--	--
Aroclor-1262	NE	mg/kg	0.076 U	0.075 U	0.078 U	--	--	--	--
Total PCBs	0.1	mg/kg	ND	ND	ND	ND	ND	ND	ND

TABLE 2a
REMAINING SOIL SAMPLE EXCEEDANCES - UNRESTRICTED USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		MW-6	MW-6 (DUP)	MW-7	MW-08	MW-09	MW-09 (DUP)	MW-10
	Unrestricted Use	Units	15-17' 4/30/2019	15-17' 4/30/2019	15-17.5' 4/29/2019	16 - 18' 2/19/2020	10 - 11.8' 2/19/2020	10 - 11.8' 2/19/2020	15 - 16' 2/18/2020
Inorganics									
Aluminum	NE	mg/kg	4350	4640	5400	386 J+	241 J+	526 J+	371 J+
Antimony	NE	mg/kg	4.4 U	4.4 U	4.5 U	16.2 UJ	15.6 UJ	15.4 UJ	17 UJ
Arsenic	13	mg/kg	3.3 U	3.3 U	2.2 J	2.1 J	1.1 J	0.79 J	1.4 J
Barium	350	mg/kg	22.5 J	22 J	146	23.6	16.9 J	31.4 J	19.6
Beryllium	7.2	mg/kg	0.11 J	0.12 J	0.19 J	0.17 J	0.1 J	0.16 J	0.31
Cadmium	2.5	mg/kg	0.88 U	0.88 U	0.89 U	0.43 J	0.21 U	0.21 U	0.5 J
Calcium	NE	mg/kg	1040 J	894 J	4070	17 J+	79 J+	625 J+	158 J+
Chromium	1	mg/kg	12.9	12.7	17.3	1.5	5.5 J	12.1 J	9.3
Cobalt	NE	mg/kg	2.7 J	3 J	3.1 J	2.3	1.2 J	2.9 J	2.8
Copper	50	mg/kg	4.5 J	4.6 J	18.5	3.5	1.8	2.5	1.4
Iron	NE	mg/kg	8280	8650	13400	635 J+	48 J+	113 J+	615 J+
Lead	63	mg/kg	2.4	2.4	3	0.85 J	3.3	3.7	2.6
Magnesium	NE	mg/kg	1560	1810	3800	134 J+	116 J+	348 J+	157 J+
Manganese	1600	mg/kg	48.9	57.5	116	5.6 J+	5.2 J+	116 J+	71.9 J+
Mercury	0.18	mg/kg	0.019 U	0.012 J	0.02 U	0.23 U	0.19 U	0.21 U	0.16 J
Nickel	30	mg/kg	11.2	13.3	11	6.6	3.3 J	7.5	8.4
Potassium	NE	mg/kg	969 J	855 J	1230	65	692	813	574
Selenium	3.9	mg/kg	4.4 U	4.4 U	4.5 U	0.94 J	4.2 U	0.43 J	4.5 U
Silver	2	mg/kg	2.2 U	2.2 U	2.2 U	0.65 U	0.63 U	0.62 U	0.68 U
Sodium	NE	mg/kg	131 J	136 J	1120 U	122 J	135 J	116 J	83.1 J
Thallium	NE	mg/kg	4.4 U	4.4 U	4.5 U	6.5 U	6.3 U	6.2 U	6.8 U
Vanadium	NE	mg/kg	11	11.5	18.8	16.3	6.6 J	12.1 J	1.4
Zinc	109	mg/kg	41.5	41.3	29.9	16.5	13.2 J	25.4 J	42.6
Cyanide	27	mg/kg	--	--	--	--	--	--	--

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.

J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.

UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.

p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.

H - Sample was prepped or analyzed beyond the specified holding time.

F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.

* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits

NE - Not established.

ND - Not detected

(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Unrestricted Use

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives		SB-2 (1.5-2')	SB-10 (7-8')	SB-22 (0.5-1')	SB-23 (0.5-1')	SB-25 (7-8')	SB-39 (11-12')	SB-41 (6.5-8')	SB-57 (0-2')	SB-58 (0-2')
	[6 NYCRR Subpart 375-6] Commercial Use	Units	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/3/2006	10/3/2006	10/4/2006	10/5/2006	10/5/2006
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	240	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	30	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	500	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	500	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	44	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	0.137	--	--
Carbon tetrachloride	22	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives		SB-2 (1.5-2')	SB-10 (7-8')	SB-22 (0.5-1')	SB-23 (0.5-1')	SB-25 (7-8')	SB-39 (11-12')	SB-41 (6.5-8')	SB-57 (0-2')	SB-58 (0-2')
	[6 NYCRR Subpart 375-6]	Units	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/3/2006	10/3/2006	10/4/2006	10/5/2006	10/5/2006
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	350	mg/kg	--	--	--	--	--	--	--	0.0041 J	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	390	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	500	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	500	mg/kg	--	--	--	--	--	--	--	0.0057 J	0.0052 J
Naphthalene	500	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	150	mg/kg	--	--	--	--	0.0136	--	--	0.0572	0.0153
Toluene	500	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	200	mg/kg	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	13	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	500	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-2 (1.5-2')	SB-10 (7-8')	SB-22 (0.5-1')	SB-23 (0.5-1')	SB-25 (7-8')	SB-39 (11-12')	SB-41 (6.5-8')	SB-57 (0-2')	SB-58 (0-2')
	Commercial Use	Units	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/3/2006	10/3/2006	10/4/2006	10/5/2006	10/5/2006
Semi-volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	500	mg/kg	1.36	--	0.0227 J	0.454	0.0299 J	--	0.78	--	0.343 J
Acenaphthylene	500	mg/kg	0.0197 J	--	0.639	6.31	0.417	0.0294 J	0.599	0.0572 J	0.197
Anthracene	500	mg/kg	1.61	--	0.339	4.29	0.639	0.0335 J	2.7	0.115	0.153
Benz(a)anthracene	5.6	mg/kg	2.47	0.0844	0.938	13.3	2.22	0.125	7.78	0.574	0.454
Benzo(a)pyrene	1	mg/kg	1.88	0.0718 J	1.06	16.2	1.7	0.117	7.46	0.563	0.308
Benzo(b)fluoranthene	5.6	mg/kg	2.59	0.0941	2.18	25.9	2.3	0.137	6.51	0.617	0.341
Benzo(g,h,i)perylene	500	mg/kg	0.384	0.0338 J	0.488	7.05	1.43	0.111	2.1	0.215	0.0901
Benzo(k)fluoranthene	56	mg/kg	1.72	0.0844	1.57	17.9	1.68	0.0952	3.77	0.572	0.471
Chrysene	56	mg/kg	2.34	0.114	1.23	16.9	2.63	0.0363 J	7.51	0.602	0.369
Dibenz(a,h)anthracene	0.56	mg/kg	0.235	--	0.206	3.14	0.477	--	0.727	0.0831	0.0509 J
Fluoranthene	500	mg/kg	5.33	0.149	1.25	15.4	3.56	0.225	16.2	0.744	0.817
Fluorene	500	mg/kg	0.98	--	0.0261 J	1.33	0.0475 J	--	1.37	--	0.0989
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	0.519	0.0361 J	0.585	8.39	1.43	0.0997	2.2	0.238	0.126
Naphthalene	500	mg/kg	0.522	--	0.0527 J	0.478	--	0.0424 J	0.0378 J	--	--
Phenanthrene	500	mg/kg	5.11	0.0809	0.392	9.41	1.23	0.122	13.8	0.301	0.558
Pyrene	500	mg/kg	5.14	0.128	1.28	18.1	3.55	0.166	14.3	0.737	0.563
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.037 J	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-2 (1.5-2')	SB-10 (7-8')	SB-22 (0.5-1')	SB-23 (0.5-1')	SB-25 (7-8')	SB-39 (11-12')	SB-41 (6.5-8')	SB-57 (0-2')	SB-58 (0-2')
	Commercial Use	Units	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/3/2006	10/3/2006	10/4/2006	10/5/2006	10/5/2006
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	0.0372	0.166 J	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	0.167	0.371 J	--	--	--	0.233	0.164
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	350	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	6	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	6.7	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	500	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives		SB-2 (1.5-2')	SB-10 (7-8')	SB-22 (0.5-1')	SB-23 (0.5-1')	SB-25 (7-8')	SB-39 (11-12')	SB-41 (6.5-8')	SB-57 (0-2')	SB-58 (0-2')
	[6 NYCRR Subpart 375-6]	Units									
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	92	mg/kg	--	1.87	--	--	0.0077	--	--	--	0.178
4,4'-DDE	62	mg/kg	--	7.06	--	--	--	--	--	--	0.315
4-4'-DDT	47	mg/kg	--	35.5	--	--	--	--	--	--	0.569
Aldrin	0.68	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	3.4	mg/kg	--	0.0034	--	--	--	--	--	--	--
beta-BHC	3	mg/kg	--	0.0427	--	--	--	--	--	--	--
Chlordane, alpha	24	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	24	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	500	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	1.4	mg/kg	--	6.47	--	--	--	--	--	--	4.56
Endosulfan sulfate	200	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	200	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	200	mg/kg	--	0.399	--	--	--	--	--	--	--
Endrin	89	mg/kg	--	--	--	--	--	--	--	--	0.036
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	0.0044	--	--	--	--	--	--	--
Heptachlor	15	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	9.2	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	1	mg/kg	--	--	--	--	--	--	5.25	--	--
Aroclor 1248	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	1	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	1	mg/kg	--	--	--	--	--	--	5.25	--	--

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ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-2 (1.5-2')	SB-10 (7-8')	SB-22 (0.5-1')	SB-23 (0.5-1')	SB-25 (7-8')	SB-39 (11-12')	SB-41 (6.5-8')	SB-57 (0-2')	SB-58 (0-2')
	Commercial Use	Units	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/3/2006	10/3/2006	10/4/2006	10/5/2006	10/5/2006
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	5.5	9.7	--	--	--	--	--
Arsenic	16	mg/kg	7.7	31.5	2.6	2.4	--	19.9	--	9.4	15.5
Barium	400	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	590	mg/kg	--	--	1.2	5.1	--	--	--	--	--
Cadmium	9.3	mg/kg	--	--	--	0.64	--	--	--	1.1	0.95
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	400	mg/kg	7.2	20.8	58.9	189	3.9	42.8	--	25.8	15.3
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	270	mg/kg	17.9	22	295	842	17.1	72.6	--	74.3	35.9
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	1,000	mg/kg	44.3	78.3	172	584	12.5	31	--	62.1	10.9
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	10,000	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	2.8	mg/kg	1.5	0.66	1.6	9	0.15	2.2	--	1.9	2.6
Nickel	310	mg/kg	--	10.1	160	494	6.2	14.1	--	21.6	11.3
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	1,500	mg/kg	--	3.3	2.9	4.7	--	8.4	--	--	--
Silver	1,500	mg/kg	--	--	--	1.6	--	--	--	11	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	10,000	mg/kg	26.1	31.1	509	1970	6.1	170	--	136	131
Cyanide	27	mg/kg	--	--	--	--	--	19.7	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - /+ - Reported value may be biased low/high.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - R - Unreliable result; data is rejected or unusable
 - N - Tentative identification. Analyte is considered present.
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-59 (0-0.5')	SB-61 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')
	Commercial Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006	4/17/2014	10/6/2006
<i>Volatile Organic Compounds (VOCs)</i>										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1-Dichloroethane	240	mg/kg	--	--	--	--	--	--	--	--
1,1-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichloroethane	30	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	500	mg/kg	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--
Acetone	500	mg/kg	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	44	mg/kg	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	0.0013 J
Carbon tetrachloride	22	mg/kg	--	--	--	--	--	--	--	--
Chlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-59 (0-0.5')	SB-61 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')
	Commercial Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006	4/17/2014	10/6/2006
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chloroform	350	mg/kg	--	--	--	--	0.0018 J	0.0107	--	0.0013 J
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	390	mg/kg	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--
Methyl tert butyl ether	500	mg/kg	--	--	--	--	--	--	--	--
Methylene chloride	500	mg/kg	--	0.0077	--	--	--	--	--	--
Naphthalene	500	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--
tert-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	150	mg/kg	--	--	--	--	0.121	--	--	--
Toluene	500	mg/kg	--	0.0077	--	--	--	0.0111 J	--	0.0011 J
trans-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	200	mg/kg	--	--	--	--	0.0024 J	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	13	mg/kg	--	--	--	--	--	--	--	--
Xylene (total)	500	mg/kg	--	--	--	--	--	--	--	0.0019 J

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-59 (0-0.5')	SB-61 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')
	Commercial Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006	4/17/2014	10/6/2006
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	500	mg/kg	0.304	--	0.0504 J	0.0233 J	0.0528 J	--	--	0.104
Acenaphthylene	500	mg/kg	1.13	0.0298 J	0.0444 J	0.0934	0.0938	--	--	0.138
Anthracene	500	mg/kg	1.95	0.192	0.13	0.107	0.253	0.0305 J	--	0.53
Benz(a)anthracene	5.6	mg/kg	8.07	1.2	0.483	0.425	1.14	0.145	--	0.984
Benzo(a)pyrene	1	mg/kg	7.28	0.652	0.487	0.384	1.04	0.11	--	0.692
Benzo(b)fluoranthene	5.6	mg/kg	8.32	0.94	0.743	0.617	1.01	0.132	--	0.64
Benzo(g,h,i)perylene	500	mg/kg	2.64	0.183	0.181	0.16	0.564	0.0643 J	--	0.399
Benzo(k)fluoranthene	56	mg/kg	6.47	0.955	0.613	0.55	0.916	0.12	--	0.623
Chrysene	56	mg/kg	7.61	1.04	0.637	0.517	1.17	0.148	--	0.924
Dibenz(a,h)anthracene	0.56	mg/kg	1.06	0.103	0.0688 J	0.0738 J	0.243	--	--	0.0459
Fluoranthene	500	mg/kg	11.4	1.46	0.974	0.668	1.62	0.145	--	2.26
Fluorene	500	mg/kg	0.611	--	0.0437 J	0.0433 J	0.0537 J	--	--	0.157
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	2.88	0.265	0.195	0.201	0.608	0.0749 J	--	0.401
Naphthalene	500	mg/kg	0.042 J	--	0.0739 J	0.054 J	--	0.0519 J	--	0.0918
Phenanthrene	500	mg/kg	7.06	0.541	0.599	0.378	0.933	0.167	--	2.17
Pyrene	500	mg/kg	12.6	1.34	1.13	0.662	1.51	0.12	--	1.68
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	0.032 J	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--
3&4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-59 (0-0.5')	SB-61 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')
	Commercial Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006	4/17/2014	10/6/2006
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.335	--	2.07	0.37	0.174	0.178	--	0.122
Butyl benzyl phthalate	NE	mg/kg	--	--	0.2	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--
Dibenzofuran	350	mg/kg	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	0.279	0.129	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	0.274	0.0536 J	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	0.866	0.0716 J	--	--	--	--
Hexachlorobenzene	6	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	0.0777 J	--	0.0233 J	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	0.0208 J	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	6.7	mg/kg	--	--	--	--	--	--	--	--
Phenol	500	mg/kg	0.0587 J	--	0.232	0.843	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-59 (0-0.5')	SB-61 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')
	Commercial Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006	4/17/2014	10/6/2006
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	92	mg/kg	--	--	--	--	--	--	--	0.129
4,4'-DDE	62	mg/kg	--	--	--	--	--	--	--	0.109
4-4'-DDT	47	mg/kg	--	--	0.135	0.13	--	--	--	0.367
Aldrin	0.68	mg/kg	--	--	--	--	--	--	--	--
alpha-BHC	3.4	mg/kg	--	--	--	--	--	--	--	--
beta-BHC	3	mg/kg	--	--	--	--	--	--	--	--
Chlordane, alpha	24	mg/kg	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--
Chlordane	24	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	500	mg/kg	--	--	--	--	--	--	--	--
Dieldrin	1.4	mg/kg	--	--	0.107	--	--	--	--	0.0532
Endosulfan sulfate	200	mg/kg	--	--	--	--	--	--	--	--
Endosulfan-I	200	mg/kg	--	--	--	--	--	--	--	--
Endosulfan-II	200	mg/kg	--	--	--	--	--	--	--	--
Endrin	89	mg/kg	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--
Heptachlor	15	mg/kg	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--
Lindane	9.2	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	1	mg/kg	--	--	--	--	--	--	0.464 U	--
Aroclor 1221	1	mg/kg	--	--	--	--	--	--	0.464 U	--
Aroclor 1232	1	mg/kg	--	--	--	--	--	--	0.464 U	--
Aroclor 1242	1	mg/kg	--	--	--	--	--	--	0.464 U	--
Aroclor 1248	1	mg/kg	--	--	--	--	--	--	0.464 U	--
Aroclor 1254	1	mg/kg	--	1.94	0.997	1.68	--	3.44	3.18	--
Aroclor 1260	1	mg/kg	--	--	0.755	--	--	--	0.464 U	--
Aroclor 1268	1	mg/kg	--	--	--	--	--	--	0.464 U	--
Aroclor-1262	1	mg/kg	--	--	--	--	--	--	0.464 U	--
Total PCBs	1	mg/kg	--	1.94	1.994	1.81	--	3.44	3.18	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SB-59 (0-0.5')	SB-61 (0-2')	SB-63 (0-1.5')	SB-64 (0-1.5')	SB-65 (0-2')	SB-74 (0-2')	SB-74A (3.5-4')	SB-75 (0-2')
	Commercial Use	Units	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/5/2006	10/6/2006	4/17/2014	10/6/2006
Inorganics										
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	29.5	--	--	--	--	--
Arsenic	16	mg/kg	7.8	--	37	12.3	--	5.5	--	24.2
Barium	400	mg/kg	--	--	--	--	--	--	--	--
Beryllium	590	mg/kg	--	--	--	--	--	--	--	--
Cadmium	9.3	mg/kg	--	--	21.8	3.2	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--
Chromium	400	mg/kg	26.4	10.9	511	60.9	--	10.5	--	15.1
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--
Copper	270	mg/kg	36.3	11.6	393	72.1	--	18.8	--	28.3
Iron	NE	mg/kg	--	--	--	--	--	--	--	--
Lead	1,000	mg/kg	281	14.9	1450	106	--	17.8	--	13.7
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--
Manganese	10,000	mg/kg	--	--	--	--	--	--	--	--
Mercury	2.8	mg/kg	0.72	0.17	39.5	0.23	--	0.18	--	0.47
Nickel	310	mg/kg	20.3	8.5	135	27.5	--	10.5	--	13.7
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--
Selenium	1,500	mg/kg	--	--	--	--	--	--	--	--
Silver	1,500	mg/kg	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--
Zinc	10,000	mg/kg	197	33.1	1190	295	--	22.6	--	29.7
Cyanide	27	mg/kg	--	--	0.52	0.4	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
-/+ - Reported value may be biased low/high.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
R - Unreliable result; data is rejected or unusable
N - Tentative identification. Analyte is considered present.
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties

**TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]			VB-10 (0-2')	VB-11 (0-2')	FE-SB-6 (1.5-2')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')	SS-3 0-2"	SS-3 (DUP) 0-2"
	Commercial Use	Units	4/17/2014	4/17/2014	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006	10/13/2006	7/2/2019	7/2/2019
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	240	mg/kg	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	30	mg/kg	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	--	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	500	mg/kg	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Acetone	500	mg/kg	--	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzene	44	mg/kg	--	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	0.0188	--	--	--	--	--	--
Carbon tetrachloride	22	mg/kg	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-10 (0-2')	VB-11 (0-2')	FE-SB-6 (1.5-2')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')	SS-3	SS-3 (DUP)
	Commercial Use	Units	4/17/2014	4/17/2014	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006	0-2" 7/2/2019	0-2" 7/2/2019
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	350	mg/kg	--	--	--	--	--	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	390	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	500	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	500	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	500	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	150	mg/kg	--	--	--	0.0038 J	--	--	--	--	--
Toluene	500	mg/kg	--	--	--	--	--	0.0011	--	--	--
trans-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	200	mg/kg	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	13	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	500	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-10 (0-2') 4/17/2014	VB-11 (0-2') 4/17/2014	FE-SB-6 (1.5-2') 7/17/2018	TP-6 (8-8.5') 10/13/2006	TP-7 (7.5-8') 10/13/2006	TP-8 (8.5-9') 10/13/2006	TP-9 (7.5-8') 10/13/2006	SS-3	SS-3 (DUP)
	Commercial Use	Units								0-2" 7/2/2019	0-2" 7/2/2019
Semi-volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	500	mg/kg	--	--	--	0.0899	0.0848	1.59 J	0.306 J	0.063 J	0.056 J
Acenaphthylene	500	mg/kg	--	--	--	0.0544 J	0.0825	--	0.355 J	0.16 J	0.089 J
Anthracene	500	mg/kg	--	--	--	0.21	0.303	4.59	1.06	0.28 J	0.24 J
Benz(a)anthracene	5.6	mg/kg	--	--	--	0.603	1.24	15.4	4.95	1.1	0.89
Benzo(a)pyrene	1	mg/kg	--	--	--	0.525	1.39	14.5	5.73	0.73	0.64
Benzo(b)fluoranthene	5.6	mg/kg	--	--	--	0.626	1.33	12.8	5.62	1.4	1.3
Benzo(g,h,i)perylene	500	mg/kg	--	--	--	0.185	0.506	5.24	2.67	0.25 J	0.22 J
Benzo(k)fluoranthene	56	mg/kg	--	--	--	0.701	1.34	15.4	4.9	0.51	0.59
Chrysene	56	mg/kg	--	--	--	0.629	1.22	14.9	4.83	1.1	0.95
Dibenz(a,h)anthracene	0.56	mg/kg	--	--	--	0.0809	0.166	2.1	0.802	0.14	0.1
Fluoranthene	500	mg/kg	--	--	--	1.09	2	30.6	8.06	1.5	1.4
Fluorene	500	mg/kg	--	--	--	0.0884	0.0735 J	1.04 J	0.207 J	0.15 J	0.11 J
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	--	--	--	0.201	0.506	5.05	2.53	0.42	0.35
Naphthalene	500	mg/kg	--	--	--	0.0501 J	--	--	--	0.43	0.31 J
Phenanthrene	500	mg/kg	--	--	--	0.714	0.895	14.1	3.16	1.3	1.1
Pyrene	500	mg/kg	--	--	--	1.21	2.53	31.3	9.55	1	0.99
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	0.71	0.54
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	0.079 J	0.1 J
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.005 U	0.0052 U
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	0.011 U	0.011 U
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	0.0069 U	0.0071 U
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.026 U	0.027 U
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.013 U	0.013 U
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.019 U	0.02 U
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.0081 U	0.0083 U
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	0.017 U	0.017 U
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	0.19 U	0.19 U
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	0.019 U	0.02 U
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	0.012 U	0.013 U
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	0.018 U	0.018 U
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	0.0054 U	0.0055 U
2-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	0.0062 U	0.0064 U
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	0.014 U*	0.015 U*
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	0.012 U	0.013 U
3&4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	0.058 U	0.06 U
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	0.021 U	0.021 U

**TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-10 (0-2')	VB-11 (0-2')	FE-SB-6 (1.5-2')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')	SS-3 0-2"	SS-3 (DUP) 0-2"
	Commercial Use	Units	4/17/2014	4/17/2014	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006	7/2/2019	7/2/2019
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	0.062 U	0.064 U
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	0.005 U	0.0051 U
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	0.0064 U *	0.0066 U *
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	0.027 U	0.028 U
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	0.0061 U	0.0062 U
4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	0.024 J	0.014 J
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	0.014 U	0.015 U
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	0.063 U	0.064 U
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	0.085 J	0.076 J
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	0.0097 U *	0.0099 U *
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	0.017 U	0.017 U
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	0.013 U	0.014 U
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	0.0046 U	0.0048 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	0.684	0.0512 J	--	--	0.035 J	0.043 J
Butyl benzyl phthalate	NE	mg/kg	--	--	--	0.341	--	--	--	0.034 J	0.018 U
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	0.023 U	0.024 U
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	0.16 J	0.13 J
Dibenzofuran	350	mg/kg	--	--	--	--	--	--	--	0.24 J	0.31 J
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.0056 U	0.0057 U
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.0046 U	0.0048 U
Di-n-butyl phthalate	NE	mg/kg	--	--	--	0.218	--	--	--	0.068 U	0.07 U
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	0.02 U	0.021 U
Hexachlorobenzene	6	mg/kg	--	--	--	--	--	--	--	0.0056 U	0.0058 U
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	0.0082 U	0.0084 U
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	0.034 U	0.035 U
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	0.0059 U	0.0061 U
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	0.01 U	0.01 U
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	0.0092 U	0.0095 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	0.0061 U	0.0063 U
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	0.0073 U	0.0075 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	6.7	mg/kg	--	--	--	--	--	--	--	0.079 U	0.081 U
Phenol	500	mg/kg	--	--	--	--	--	--	--	0.0057 U *	0.0058 U *

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		VB-10 (0-2')	VB-11 (0-2')	FE-SB-6 (1.5-2')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')	SS-3	SS-3 (DUP)
	Commercial Use	Units	4/17/2014	4/17/2014	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006	0-2" 7/2/2019	0-2" 7/2/2019
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	92	mg/kg	--	--	--	--	--	--	--	0.025 J	0.014 J
4,4'-DDE	62	mg/kg	--	--	--	--	--	--	--	0.0046 U	0.19
4-4'-DDT	47	mg/kg	--	--	--	0.0121	--	--	--	0.17	0.21
Aldrin	0.68	mg/kg	--	--	--	--	--	--	--	0.0059 U	0.006 U
alpha-BHC	3.4	mg/kg	--	--	--	--	--	--	--	0.014	0.0041 U
beta-BHC	3	mg/kg	--	--	--	--	--	--	--	0.012	0.0045 U
Chlordane, alpha	24	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	24	mg/kg	--	--	--	--	--	--	--	0.094 U	0.097 U
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	500	mg/kg	--	--	--	--	--	--	--	0.0024 U	0.0024 U
Dieldrin	1.4	mg/kg	--	--	--	0.0044	--	--	--	0.005 U	0.44
Endosulfan sulfate	200	mg/kg	--	--	--	--	--	0.0535	--	0.0049 U	0.005 U
Endosulfan-I	200	mg/kg	--	--	--	--	--	--	--	0.0059 U	0.0061 U
Endosulfan-II	200	mg/kg	--	--	--	--	--	--	--	0.01 U	0.01 U
Endrin	89	mg/kg	--	--	--	--	--	--	--	0.0056 U	0.0057 U
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	0.0092 U	0.0094 U
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	0.0075 U	0.032 J
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	0.022	0.0037 U
Heptachlor	15	mg/kg	--	--	--	--	--	--	--	0.0046 U	0.0047 U
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	0.0058 U	0.006 U
Lindane	9.2	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	0.0089 U	0.0091 U
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	0.14 U	0.14 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	1	mg/kg	0.835 U	0.174 U	0.18 U	--	--	--	--	0.01 U	0.011 U
Aroclor 1221	1	mg/kg	0.835 U	0.174 U	0.18 U	--	--	--	--	0.01 U	0.011 U
Aroclor 1232	1	mg/kg	0.835 U	0.174 U	0.18 U	--	--	--	--	0.01 U	0.011 U
Aroclor 1242	1	mg/kg	0.835 U	0.174 U	0.18 U	--	--	--	--	0.01 U	0.011 U
Aroclor 1248	1	mg/kg	0.835 U	0.174 U	0.18 U	--	--	--	--	0.01 U	0.011 U
Aroclor 1254	1	mg/kg	7.1	1.74	3.0	--	--	--	--	0.011 U	0.011 U
Aroclor 1260	1	mg/kg	0.835 U	0.174 U	0.18 U	--	--	--	--	0.011 U	0.011 U
Aroclor 1268	1	mg/kg	0.835 U	0.174 U	0.18 U	--	--	--	--	0.011 U	0.011 U
Aroclor-1262	1	mg/kg	0.835 U	0.174 U	0.18 U	--	--	--	--	0.011 U	0.011 U
Total PCBs	1	mg/kg	7.1	1.74	3.0	--	--	--	--	ND	ND

**TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Commercial Use			VB-10 (0-2')	VB-11 (0-2')	FE-SB-6 (1.5-2')	TP-6 (8-8.5')	TP-7 (7.5-8')	TP-8 (8.5-9')	TP-9 (7.5-8')	SS-3 0-2"	SS-3 (DUP) 0-2"
	Units	4/17/2014	4/17/2014	7/17/2018	10/13/2006	10/13/2006	10/13/2006	10/13/2006	10/13/2006	7/2/2019	7/2/2019	
Inorganics												
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	3990	4880
Antimony	NE	mg/kg	--	--	--	2.6	--	--	--	--	1.2 U	1.2 U
Arsenic	16	mg/kg	--	--	--	11.4	2.5	4.8	3.7	26.3	27.5	
Barium	400	mg/kg	--	--	--	--	--	--	--	210	228	
Beryllium	590	mg/kg	--	--	--	--	--	--	--	0.37 J	0.39 J	
Cadmium	9.3	mg/kg	--	--	--	1.7	0.55	3.2	--	0.15 U	0.16 U	
Calcium	NE	mg/kg	--	--	--	--	--	--	--	4600	5550	
Chromium	400	mg/kg	--	--	--	31.6	23	22.6	20.7	18.1	22.6	
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	3.8 J	4.7 J	
Copper	270	mg/kg	--	--	--	100	23.8	27	25.1	190	46.7	
Iron	NE	mg/kg	--	--	--	--	--	--	--	16700	19900	
Lead	1,000	mg/kg	--	--	--	10200	28.1	145	29.3	54.7	64.8	
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	2140	2430	
Manganese	10,000	mg/kg	--	--	--	--	--	--	--	148	189	
Mercury	2.8	mg/kg	--	--	--	0.74	0.11	1.5	0.065	0.6	0.76	
Nickel	310	mg/kg	--	--	--	44	16.3	14.4	15.7	15.5	18.6	
Potassium	NE	mg/kg	--	--	--	--	--	--	--	1430	1690	
Selenium	1,500	mg/kg	--	--	--	--	--	--	--	2.6 U	2.8 U	
Silver	1,500	mg/kg	--	--	--	--	--	--	--	0.36 J	0.23 J	
Sodium	NE	mg/kg	--	--	--	--	--	--	--	176 J	189 J	
Thallium	NE	mg/kg	--	--	--	--	--	--	--	0.7 U	0.74 U	
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	20.5	23.4	
Zinc	10,000	mg/kg	--	--	--	287	81.5	216	65.4	79.5	97.5	
Cyanide	27	mg/kg	--	--	--	--	--	0.41	--	--	--	

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - /+ - Reported value may be biased low/high.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - R - Unreliable result; data is rejected or unusable
 - N - Tentative identification. Analyte is considered present.
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-4	SS-11	SS-14	SS-15	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-24
	Commercial Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	240	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	30	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	500	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	500	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	44	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	22	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-4	SS-11	SS-14	SS-15	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-24
	Commercial Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	350	mg/kg	--	--	--	--	--	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	390	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	500	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	500	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	500	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	150	mg/kg	--	--	--	--	--	--	--	--	--
Toluene	500	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	200	mg/kg	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	13	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	500	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Commercial Use	Units	SS-4	SS-11	SS-14	SS-15	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-24
			0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020
Semi-volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	500	mg/kg	0.63	0.15 J	0.081 J	--	0.3 J	4.9 U	48 U	55 U	--
Acenaphthylene	500	mg/kg	0.1 J F1	0.19 J	0.13 J	--	2.3	1.7 J	48 U	55 U	--
Anthracene	500	mg/kg	1.5 F1	0.57	0.26 J	--	1.6 J	1.5 J+	48 U	55 U	--
Benz(a)anthracene	5.6	mg/kg	4.3 F1	2	1.9	--	6.6	5.7 J	7.4 J	55 U	--
Benzo(a)pyrene	1	mg/kg	3.8 F1	1.6	2	--	5.7	5 J+	48 U	55 U	--
Benzo(b)fluoranthene	5.6	mg/kg	5.7 F1	2.6	2.7	--	9.3	7.5 J+	12 J	8.8 J	--
Benzo(g,h,i)perylene	500	mg/kg	1.7	0.71	0.88	--	3	3.6 J+	9.3 J	7.8 J	--
Benzo(k)fluoranthene	56	mg/kg	2	0.94	0.93	--	3	3.5 J+	48 U	55 U	--
Chrysene	56	mg/kg	4.1 F1	2	1.9	--	5.8	5.7 J	48 U	55 U	--
Dibenz(a,h)anthracene	0.56	mg/kg	0.58 F1	0.24	0.35	--	1.1 J	0.88 J+	48 U	55 U	--
Fluoranthene	500	mg/kg	8.7 F1	4.1	3	--	8.7	1 J	9.2 J	55 U	--
Fluorene	500	mg/kg	0.57	0.15 J	0.12 J	--	0.26 J	4.9 U	48 U	55 U	--
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	2.1	0.83	1.1	--	3	3.4 J	7.3 J	7.6 J	--
Naphthalene	500	mg/kg	0.15 J F1	0.073 J	0.072 J	--	1.9 U	4.9 U	48 U	55 U	--
Phenanthrene	500	mg/kg	5.4 F1	2.6	0.75	--	1.8 J	3.3 J+	48 U	55 U	--
Pyrene	500	mg/kg	6.7 F1	3.1	3.1	--	7.9	8.9 J	6.3 J	55 U	--
2-Methylnaphthalene	NE	mg/kg	0.15 J F1	0.056 J	0.043 J	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	0.034 J F1	0.005 U	0.0048 U	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	0.0054 U F1	0.0049 U	0.0047 U	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	0.011 U F1	0.01 U	0.01 U	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	0.0074 U	0.0068 U	0.0065 U	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	0.028 U F1	0.025 U	0.024 U	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	0.013 U F1	0.012 U	0.012 U	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	0.021 U F1	0.019 U	0.018 U	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	0.0086 U F1	0.0079 U	0.0076 U	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	0.018 U F1	0.016 U	0.016 U	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	0.2 U F1	0.18 U	0.18 U	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	0.021 U F1	0.019 U	0.018 U	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	0.013 U F1	0.012 U	0.012 U	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	0.019 U F1	0.017 U	0.017 U	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	0.0057 U F1	0.0052 U	0.0051 U	--	--	--	--	--	--
2-Methylphenol	500	mg/kg	0.0066 U F1	0.006 U	0.0058 U	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	0.015 U *	0.014 U *	0.013 U *	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	0.013 U F1	0.012 U	0.012 U	--	--	--	--	--	--
3&4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	0.062 U F1	0.057 U	0.055 U	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	0.022 U	0.02 U	0.02 U	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-4	SS-11	SS-14	SS-15	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-24
	Commercial Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020
4,6-Dinitro-o-cresol	NE	mg/kg	0.066 U F1	0.061 U	0.059 U	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	0.0053 U F1	0.0048 U	0.0047 U	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	0.0068 U *	0.0062 U *	0.006 U *	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	0.029 U	0.026 U	0.025 U	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	0.0064 U F1	0.0059 U	0.0057 U	--	--	--	--	--	--
4-Methylphenol	500	mg/kg	0.007 U F1	0.0064 U	0.0061 U	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	0.015 U F1	0.014 U	0.013 U	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	0.067 U	0.061 U	0.059 U	--	--	--	--	--	--
Acetophenone	NE	mg/kg	0.055 J F1	0.041 J	0.0058 U	--	--	--	--	--	--
Atrazine	NE	mg/kg	0.01 U * I	0.0094 U *	0.0091 U *	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	0.044 J	0.068 J	0.029 J	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	0.014 U F1	0.013 U	0.012 U	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	0.0049 U F1	0.0045 U	0.0044 U	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.17 J F1	0.26 J	0.019 U	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	0.11 J F1	0.052 J	0.017 U	--	--	--	--	--	--
Caprolactam	NE	mg/kg	0.024 U F1	0.022 U	0.022 U	--	--	--	--	--	--
Carbazole	NE	mg/kg	0.75	0.4	0.038 J	--	--	--	--	--	--
Dibenzofuran	350	mg/kg	0.33 J F1	0.12 J	0.068 J	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	0.0059 U F1	0.0054 U	0.0052 U	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	0.0049 U F1	0.27 J	0.0044 U	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	0.072 U F1	0.066 U	0.064 U	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	0.022 U	0.02 U	0.019 U	--	--	--	--	--	--
Hexachlorobenzene	6	mg/kg	0.006 U F1	0.0055 U	0.0053 U	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	0.0087 U F1	0.008 U	0.0077 U	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	0.036 U F1	0.033 U	0.032 U	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	0.0063 U F1	0.0058 U	0.0056 U	--	--	--	--	--	--
Isophorone	NE	mg/kg	0.011 U F1	0.0098 U	0.0095 U	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	0.0098 U F1	0.009 U	0.0087 U	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	0.0065 U	0.006 U	0.0057 U	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	0.0078 U F1	0.0072 U	0.0069 U	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	6.7	mg/kg	0.084 U F1	0.077 U	0.074 U	--	--	--	--	--	--
Phenol	500	mg/kg	0.0061 U *	0.0055 U *	0.0053 U *	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-4	SS-11	SS-14	SS-15	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-24
	Commercial Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	92	mg/kg	0.0014 U F1	0.0013 U	0.0012 U	--	--	--	--	--	--
4,4'-DDE	62	mg/kg	0.089 F1	0.0009 U	0.00086 U	--	--	--	--	--	--
4-4'-DDT	47	mg/kg	0.14 F1	0.013 p	0.0013 U	--	--	--	--	--	--
Aldrin	0.68	mg/kg	0.0013 U	0.0011 U	0.0011 U	--	--	--	--	--	--
alpha-BHC	3.4	mg/kg	0.0032 F1	0.00077 U	0.00074 U	--	--	--	--	--	--
beta-BHC	3	mg/kg	0.00093 U	0.00085 U	0.00082 U	--	--	--	--	--	--
Chlordane, alpha	24	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	24	mg/kg	0.02 U	0.018 U	0.018 U	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	500	mg/kg	0.00051 U	0.00046 U	0.00045 U	--	--	--	--	--	--
Dieldrin	1.4	mg/kg	0.11 F1	0.00099 U	0.00095 U	--	--	--	--	--	--
Endosulfan sulfate	200	mg/kg	0.001 U	0.00095 U	0.00092 U	--	--	--	--	--	--
Endosulfan-I	200	mg/kg	0.0013 U	0.0012 U	0.0011 U	--	--	--	--	--	--
Endosulfan-II	200	mg/kg	0.0021 U F1	0.002 U	0.0019 U	--	--	--	--	--	--
Endrin	89	mg/kg	0.0012 U	0.0011 U	0.001 U	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	0.002 U	0.0018 U	0.0017 U	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	0.0016 U F1	0.0015 U	0.0014 U	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	0.00077 U	0.0007 U	0.00068 U	--	--	--	--	--	--
Heptachlor	15	mg/kg	0.00098 U	0.0009 U	0.00086 U	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	0.0012 U	0.0011 U	0.0011 U	--	--	--	--	--	--
Lindane	9.2	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.0019 U	0.0017 U	0.0017 U	--	--	--	--	--	--
Toxaphene	NE	mg/kg	0.03 U	0.027 U	0.026 U	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	1	mg/kg	0.011 U	0.01 U	0.0097 U	--	--	--	--	--	0.25 U
Aroclor 1221	1	mg/kg	0.011 U	0.01 U	0.0097 U	--	--	--	--	--	0.25 U
Aroclor 1232	1	mg/kg	0.011 U	0.01 U	0.0097 U	--	--	--	--	--	0.25 U
Aroclor 1242	1	mg/kg	0.011 U	0.01 U	0.0097 U	--	--	--	--	--	0.25 U
Aroclor 1248	1	mg/kg	0.011 U	0.01 U	0.0097 U	--	--	--	--	--	0.25 U
Aroclor 1254	1	mg/kg	0.51	0.093	0.01 U	--	--	--	--	--	8.2 J-
Aroclor 1260	1	mg/kg	0.011 U	0.01 U	0.01 U	--	--	--	--	--	0.25 U
Aroclor 1268	1	mg/kg	0.011 U	0.01 U	0.01 U	--	--	--	--	--	--
Aroclor-1262	1	mg/kg	0.011 U	0.01 U	0.01 U	--	--	--	--	--	--
Total PCBs	1	mg/kg	0.51	0.093	ND	--	--	--	--	--	8.2 J-

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-4	SS-11	SS-14	SS-15	SS-18	SS-19	SS-20	SS-20 (DUP)	SS-24
	Commercial Use	Units	0-2" 7/2/2019	0-2" 7/2/2019	0-2" 7/2/2019	1.5-2' 7/2/2019	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020	0-2" 2/18/2020
Inorganics											
Aluminum	NE	mg/kg	7530	7150	10800	5070	--	--	--	--	--
Antimony	NE	mg/kg	1.3 U F1	1.1 U	1.1 U	1.2 U	--	--	--	--	--
Arsenic	16	mg/kg	8.1	6.2	3.2	16.4	--	--	--	--	5.7
Barium	400	mg/kg	142	99.2	89.2	110	--	--	--	--	--
Beryllium	590	mg/kg	0.39 J	0.36 J	0.53	0.48	--	--	--	--	--
Cadmium	9.3	mg/kg	1.6	1.1	0.15 U	2.9	--	--	--	--	1.8
Calcium	NE	mg/kg	25400	34100	3040	2460	--	--	--	--	--
Chromium	400	mg/kg	31.9	29.1	34.8	48.2	--	--	--	--	27.3
Cobalt	NE	mg/kg	4.8 J	4.1 J	9.2 J	3.9 J	--	--	--	--	--
Copper	270	mg/kg	43.9	31.5	28.4	60.9	336	234	44	338	21.8
Iron	NE	mg/kg	18500	14800	19400	23400	--	--	--	--	--
Lead	1,000	mg/kg	75.2	65.8	45.8	57.6	--	--	--	--	52.9 J-
Magnesium	NE	mg/kg	6160 F1	5290	5130	2190	--	--	--	--	--
Manganese	10,000	mg/kg	228	222	318	79.2	--	--	--	--	--
Mercury	2.8	mg/kg	0.8	0.59	0.12	1.4	0.29 J-	0.44 J-	0.89 J-	0.96 J-	0.54
Nickel	310	mg/kg	20.2	15.3	36.3	21.6	274 J-	127 J-	176 J-	134 J-	--
Potassium	NE	mg/kg	1620	1120	2310	948 J	--	--	--	--	--
Selenium	1,500	mg/kg	2.9 U	2.5 U	2.6 U	2.7 U	--	--	--	--	--
Silver	1,500	mg/kg	0.23 U	0.2 U	0.2 U	2.6	--	--	--	--	--
Sodium	NE	mg/kg	223 J	372 J	116 J	90 U	--	--	--	--	--
Thallium	NE	mg/kg	0.77 U	0.68 U	0.68 U	0.71 U	--	--	--	--	--
Vanadium	NE	mg/kg	31.1	21.5	35.5	42.7	--	--	--	--	--
Zinc	10,000	mg/kg	382	325	77.1	115	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - /+ - Reported value may be biased low/high.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - R - Unreliable result; data is rejected or unusable
 - N - Tentative identification. Analyte is considered present.
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-26	SS-27	SS-28	SS-29	SS-30	SS-31	SS-32	SS-33 (DUP)	SS-35
	Commercial Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
<i>Volatile Organic Compounds (VOCs)</i>											
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	240	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	30	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	500	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetone	500	mg/kg	--	--	--	--	--	--	--	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzene	44	mg/kg	--	--	--	--	--	--	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	--	--	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	22	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-26	SS-27	SS-28	SS-29	SS-30	SS-31	SS-32	SS-33 (DUP)	SS-35
	Commercial Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
Chloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chloroform	350	mg/kg	--	--	--	--	--	--	--	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	390	mg/kg	--	--	--	--	--	--	--	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Methyl tert butyl ether	500	mg/kg	--	--	--	--	--	--	--	--	--
Methylene chloride	500	mg/kg	--	--	--	--	--	--	--	--	--
Naphthalene	500	mg/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--	--	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--	--
Tetrachloroethene	150	mg/kg	--	--	--	--	--	--	--	--	--
Toluene	500	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Trichloroethene	200	mg/kg	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vinyl chloride	13	mg/kg	--	--	--	--	--	--	--	--	--
Xylene (total)	500	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Commercial Use	Units	SS-26	SS-27	SS-28	SS-29	SS-30	SS-31	SS-32	SS-33 (DUP)	SS-35
			0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
Semi-volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	500	mg/kg	43 U	22 J	0.32 J	2.4 U	2 U	0.76 J	0.3 U	0.33 U	2 U
Acenaphthylene	500	mg/kg	43 U	38 U	0.7 J	2.4 U	0.39 J	0.28 J	2.6 J	1.4 J	1.8 U
Anthracene	500	mg/kg	43 U	51	1.4 J	0.63 J	0.69 J	2	1.8 J	0.62 J	3.4 U
Benz(a)anthracene	5.6	mg/kg	19 J	96	5.2	2.8	3.1	4.1	5.8 J	2.1 J	1.4 U
Benzo(a)pyrene	1	mg/kg	12 J	81	5.6	3	3	3.5	6.3 J	1.8 J	4.5 J
Benzo(b)fluoranthene	5.6	mg/kg	15 J	91	7	3.3	2.9	3.9	12	4.2 J	8.3 J
Benzo(g,h,i)perylene	500	mg/kg	9.8 J	34 J	3.2	1.9 J	1.8 J	1.9	5.9 J	1.9 J	1.4 U
Benzo(k)fluoranthene	56	mg/kg	7.8 J	39	2.6	1.9 J	1.9 J	2.2	4.6 J	0.29 U	1.8 U
Chrysene	56	mg/kg	13 J	83	4.6	2.4	2.7	3.7	7.5 J	2.3	5.4 J
Dibenz(a,h)anthracene	0.56	mg/kg	43 U	9 J	0.92 J	0.78 J	0.55 J	0.63 J	2 J	0.67 J	2.4 U
Fluoranthene	500	mg/kg	33 J	23	8.2	4.5	4.8	8.8	8.4 J	3 J	11 J
Fluorene	500	mg/kg	43 U	18 J	0.46 J	2.4 U	2 U	1.2 J	0.24 U	0.26 U	1.6 U
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	9.5 J	35 J	2.9	1.7 J	1.7 J	1.7 J	5.8 J	2 J	4.5 J
Naphthalene	500	mg/kg	43 U	38 U	2.2 U	2.4 U	2 U	0.24 J	0.26 U	0.29 U	1.8 U
Phenanthrene	500	mg/kg	33 J	14	3.6	1.5 J	1.5 J	7.6	1.6 J	0.9 J	7.5 J
Pyrene	500	mg/kg	25 J	18	7.5	3.9	4.2	7.1	7.4 J	2.5	8 J
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Other SVOCs											
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
3&4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--

**TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-26	SS-27	SS-28	SS-29	SS-30	SS-31	SS-32	SS-33 (DUP)	SS-35
	Commercial Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--	--	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dibenzofuran	350	mg/kg	--	--	--	--	--	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	6	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--	--	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--	--
Pentachlorophenol	6.7	mg/kg	--	--	--	--	--	--	--	--	--
Phenol	500	mg/kg	--	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-26	SS-27	SS-28	SS-29	SS-30	SS-31	SS-32	SS-33 (DUP)	SS-35
	Commercial Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>											
4,4'-DDD	92	mg/kg	--	--	--	--	--	--	--	--	--
4,4'-DDE	62	mg/kg	--	--	--	--	--	--	--	--	--
4-4'-DDT	47	mg/kg	--	--	--	--	--	--	--	--	--
Aldrin	0.68	mg/kg	--	--	--	--	--	--	--	--	--
alpha-BHC	3.4	mg/kg	--	--	--	--	--	--	--	--	--
beta-BHC	3	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, alpha	24	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chlordane	24	mg/kg	--	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
delta-BHC	500	mg/kg	--	--	--	--	--	--	--	--	--
Dieldrin	1.4	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	200	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-I	200	mg/kg	--	--	--	--	--	--	--	--	--
Endosulfan-II	200	mg/kg	--	--	--	--	--	--	--	--	--
Endrin	89	mg/kg	--	--	--	--	--	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor	15	mg/kg	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lindane	9.2	mg/kg	--	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--	--	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1016	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1221	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1232	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1242	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1248	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1254	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1260	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor 1268	1	mg/kg	--	--	--	--	--	--	--	--	--
Aroclor-1262	1	mg/kg	--	--	--	--	--	--	--	--	--
Total PCBs	1	mg/kg	--	--	--	--	--	--	--	--	--



TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-26	SS-27	SS-28	SS-29	SS-30	SS-31	SS-32	SS-33 (DUP)	SS-35
	Commercial Use	Units	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 2/18/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020
Inorganics											
Aluminum	NE	mg/kg	--	--	--	--	--	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--	--	--	--	--	--
Arsenic	16	mg/kg	--	--	--	--	--	--	--	--	--
Barium	400	mg/kg	--	--	--	--	--	--	--	--	--
Beryllium	590	mg/kg	--	--	--	--	--	--	--	--	--
Cadmium	9.3	mg/kg	--	--	--	--	--	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Chromium	400	mg/kg	--	--	--	--	--	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--	--	--	--	--	--
Copper	270	mg/kg	--	--	--	--	--	--	405	294	--
Iron	NE	mg/kg	--	--	--	--	--	--	--	--	--
Lead	1,000	mg/kg	--	--	--	--	--	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Manganese	10,000	mg/kg	--	--	--	--	--	--	--	--	--
Mercury	2.8	mg/kg	--	--	--	--	--	--	--	--	--
Nickel	310	mg/kg	--	--	--	--	--	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Selenium	1,500	mg/kg	--	--	--	--	--	--	--	--	--
Silver	1,500	mg/kg	--	--	--	--	--	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--	--	--	--	--	--
Zinc	10,000	mg/kg	--	--	--	--	--	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--	--

Notes:

- U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
 - J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
 - /+ - Reported value may be biased low/high.
 - UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
 - p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
 - H - Sample was prepped or analyzed beyond the specified holding time.
 - F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
 - * - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
 - R - Unreliable result; data is rejected or unusable
 - N - Tentative identification. Analyte is considered present.
 - NE - Not established.
 - ND - Not detected
 - (b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
- Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives	Units	SS-36	SS-37	SS-39	SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)
	[6 NYCRR Subpart 375-6] Commercial Use		0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021
<i>Volatile Organic Compounds (VOCs)</i>										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	--	--	--	--	--	0.015 U	--	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	0.009 UF1	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	--	--	--	--	0.028 U	--	--
1,1,2-Trichloroethane	NE	mg/kg	--	--	--	--	--	0.012 UF1	--	--
1,1-Dichloroethane	240	mg/kg	--	--	--	--	--	0.017 U	--	--
1,1-Dichloroethene	500	mg/kg	--	--	--	--	--	0.019 U	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	0.021 U	--	--
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	--	--	--	--	0.028 U	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--	--	0.0097 UF1	--	--
1,2-Dichlorobenzene	500	mg/kg	--	--	--	--	--	0.014 U	--	--
1,2-Dichloroethane	30	mg/kg	--	--	--	--	--	0.023 U	--	--
1,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	0.009 U	--	--
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	--	--	--	--	--	0.015 U	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	--	--	--	--	--	0.0078 U	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	500	mg/kg	--	--	--	--	--	0.17 UF1	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	--	--	--	--	0.11 UF1	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	--	--	--	--	1.6 J+	--	--
Acetone	500	mg/kg	--	--	--	--	--	0.23 U	--	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	44	mg/kg	--	--	--	--	--	0.011 U	--	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--	--	0.011 U	--	--
Bromoform	NE	mg/kg	--	--	--	--	--	0.028 UF1	--	--
Bromomethane	NE	mg/kg	--	--	--	--	--	0.012 U	--	--
Carbon disulfide	NE	mg/kg	--	--	--	--	--	0.031 J	--	--
Carbon tetrachloride	22	mg/kg	--	--	--	--	--	0.99	--	--
Chlorobenzene	500	mg/kg	--	--	--	--	--	0.0073 U	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-36	SS-37	SS-39	SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)
	Commercial Use	Units	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021
Chloroethane	NE	mg/kg	--	--	--	--	--	0.012 U	--	--
Chloroform	350	mg/kg	--	--	--	--	--	0.087	--	--
Chloromethane	NE	mg/kg	--	--	--	--	--	0.013 U	--	--
cis-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	0.015 U	--	--
cis-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	0.013 U	--	--
Cyclohexane	NE	mg/kg	--	--	--	--	--	0.02 J	--	--
Dibromochloromethane	NE	mg/kg	--	--	--	--	--	0.027 UF1	--	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	--	--	--	--	0.024 U	--	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	390	mg/kg	--	--	--	--	--	0.53	--	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	--	--	--	--	0.023 J	--	--
Methyl Acetate	NE	mg/kg	--	--	--	--	--	0.18 J+	--	--
Methyl cyclohexane	NE	mg/kg	--	--	--	--	--	0.058	--	--
Methyl tert butyl ether	500	mg/kg	--	--	--	--	--	0.021 UF1	--	--
Methylene chloride	500	mg/kg	--	--	--	--	--	0.011 U	--	--
Naphthalene	500	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	--	--	--	--	0.013 UF1	--	--
tert-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	150	mg/kg	--	--	--	--	--	0.06	--	--
Toluene	500	mg/kg	--	--	--	--	--	0.015 U	--	--
trans-1,2-Dichloroethene	500	mg/kg	--	--	--	--	--	0.013 U	--	--
trans-1,3-Dichloropropene	NE	mg/kg	--	--	--	--	--	0.0055 U	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	200	mg/kg	--	--	--	--	--	0.015 U	--	--
Trichlorofluoromethane	NE	mg/kg	--	--	--	--	--	0.026 U	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	13	mg/kg	--	--	--	--	--	0.019 U	--	--
Xylene (total)	500	mg/kg	--	--	--	--	--	4.2 F1	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-36	SS-37	SS-39	SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)
	Commercial Use	Units	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	500	mg/kg	0.7 U	0.18 U	0.55 J	0.17 U	0.63 U	0.27 J+	2 U	2.7 U
Acenaphthylene	500	mg/kg	0.62 U	0.25 J	1.1 J	0.15 U	4.7	1.9 J+	1.8 J	2.4 U
Anthracene	500	mg/kg	1.2 U	0.48 J	3	0.33 J	2.8 J	1.6 J+	3.3 U	4.5 U
Benz(a)anthracene	5.6	mg/kg	0.48 U	2.3	9.2	1.5	11	5.9 J	5.9 J	4.9 J
Benzo(a)pyrene	1	mg/kg	1.6 J	2.5	8.1	1.8	12	5.7 J+	6.8 J	6 J
Benzo(b)fluoranthene	5.6	mg/kg	2.2 J	2.9	10	2	16	7 J+	11 J	12 J
Benzo(g,h,i)perylene	500	mg/kg	1.4 J	1.8	4.9	1.4	6.9	4.2 J+	5.7 J	4.8 J
Benzo(k)fluoranthene	56	mg/kg	0.68 J	0.89 J	3.7	1.1 J	6.6	3.6 J+	4.9 J	4.3 J
Chrysene	56	mg/kg	1.1 U	2.4	8	1.5	12	5.8 J	7 J	6 J
Dibenz(a,h)anthracene	0.56	mg/kg	0.85 U	0.63 J	1.6 J	0.46 J	2.5 J	1.2 J+	2.3 U	3.2 U
Fluoranthene	500	mg/kg	3 J	3.8	19	2.8	18	10 J	12 J	8.2 J
Fluorene	500	mg/kg	0.56 U	0.14 U	1.5 J	0.14 U	0.51 U	0.36 J+	1.6 U	2.2 U
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	1.4 J	1.7	4.9	1.3	7.2	4 J+	5 J	4.7 J
Naphthalene	500	mg/kg	0.62 U	0.15 U	0.3 U	0.15 U	0.56 U	0.13 UF1F2	1.7 U	2.4 U
Phenanthrene	500	mg/kg	2.2 J	1.5	11	0.91 J	4.3	5 J	4.4 J	2.7 U
Pyrene	500	mg/kg	2.7 J	3.5	14	2.5	15	8.7 J	9.9 J	6.6 J
2-Methylnaphthalene	NE	mg/kg	--	--	--	--	--	0.2 UF1F2	2.7 U	3.7 U
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--	--	0.27 U	3.6 U	5 U
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--	--	0.2 U	2.7 U	3.7 U
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--	--	0.1 U	1.4 U	1.9 U
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--	--	0.24 U	3.2 U	4.4 U
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--	--	4.6 U	61 U	84 U
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	0.2 U	2.7 U	3.8 U
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--	--	0.12 U	1.6 U	2.2 U
2-Chloronaphthalene	NE	mg/kg	--	--	--	--	--	0.16 U	2.2 U	3 U
2-Chlorophenol	NE	mg/kg	--	--	--	--	--	0.18 U	2.4 U	3.3 U
2-Methylphenol	500	mg/kg	--	--	--	--	--	0.12 U	1.6 U	2.2 U
2-Nitroaniline	NE	mg/kg	--	--	--	--	--	0.15 U	2 U	2.7 U
2-Nitrophenol	NE	mg/kg	--	--	--	--	--	0.28 U	3.8 U	5.2 U
3&4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--	--	1.2 U	16 U	22 U
3-Nitroaniline	NE	mg/kg	--	--	--	--	--	0.27 U	3.7 U	5.1 U

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-36	SS-37	SS-39	SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)
	Commercial Use	Units	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--	--	0.99 U	13 U	18 U
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	0.14 U	1.9 U	2.6 U
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--	--	0.24 U	3.3 U	4.5 U
4-Chloroaniline	NE	mg/kg	--	--	--	--	--	0.24 U	3.3 U	4.5 U
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--	--	0.12 U	1.6 U	2.3 U
4-Methylphenol	500	mg/kg	--	--	--	--	--	0.12 U	1.6 U	2.2 U
4-Nitroaniline	NE	mg/kg	--	--	--	--	--	0.52 U	7 U	9.6 U
4-Nitrophenol	NE	mg/kg	--	--	--	--	--	0.69 U	9.3 U	13 U
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--	--	0.34 U	4.6 U	6.4 U
Benzaldehyde	NE	mg/kg	--	--	--	--	--	0.79 U	11 U	15 U
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--	--	0.16 UF1	2.2 U	3 U
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--	--	0.15 U	2 U	2.7 U
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--	--	0.21 U	2.8 U	3.9 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--	--	0.13 U	1.7 U	2.4 U
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--	--	0.2 U	2.7 U	3.7 U
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--	--	0.34 UF1	4.5 U	6.2 U
Caprolactam	NE	mg/kg	--	--	--	--	--	0.3 U	4 U	5.5 U
Carbazole	NE	mg/kg	--	--	--	--	--	0.66 J+	2.9 J	3.3 J
Dibenzofuran	350	mg/kg	--	--	--	--	--	0.23 J+	1.6 U	2.2 U
Diethyl phthalate	NE	mg/kg	--	--	--	--	--	0.13 U	1.7 U	2.4 U
Dimethyl phthalate	NE	mg/kg	--	--	--	--	--	0.12 U	1.6 U	2.2 U
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--	--	0.17 U	2.3 U	3.1 U
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--	--	0.12 U	1.6 U	2.2 U
Hexachlorobenzene	6	mg/kg	--	--	--	--	--	0.13 U	1.8 U	2.5 U
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	0.15 U	2 U	2.7 U
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--	--	0.13 U	1.8 U	2.5 U
Hexachloroethane	NE	mg/kg	--	--	--	--	--	0.13 U	1.7 U	2.4 U
Isophorone	NE	mg/kg	--	--	--	--	--	0.21 U	2.8 U	3.9 U
Nitrobenzene	NE	mg/kg	--	--	--	--	--	0.11 U	1.5 U	2 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--	--	0.17 U	2.3 U	3.1 U
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--	--	0.8 U	11 U	15 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	6.7	mg/kg	--	--	--	--	--	0.99 U	13 U	18 U
Phenol	500	mg/kg	--	--	--	--	--	0.15 U	2 U	2.8 U

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-36	SS-37	SS-39	SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)
	Commercial Use	Units	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	92	mg/kg	--	--	--	--	--	0.0075 U	0.0084 U	0.008 U
4,4'-DDE	62	mg/kg	--	--	--	--	--	0.0081 U	0.015 J+	0.0086 U
4-4'-DDT	47	mg/kg	--	--	--	--	--	0.088 J+	0.15	0.14
Aldrin	0.68	mg/kg	--	--	--	--	--	0.0095 UF1	0.011 U	0.01 U
alpha-BHC	3.4	mg/kg	--	--	--	--	--	0.007 U	0.0078 U	0.0074 U
beta-BHC	3	mg/kg	--	--	--	--	--	0.007 UF1	0.0078 U	0.0074 U
Chlordane, alpha	24	mg/kg	--	--	--	--	--	0.019 UF1	0.022 U	0.02 U
Chlordane, beta	NE	mg/kg	--	--	--	--	--	0.012 UF1	0.014 U	0.013 U
Chlordane	24	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	500	mg/kg	--	--	--	--	--	0.0072 U	0.0081 U	0.0076 U
Dieldrin	1.4	mg/kg	--	--	--	--	--	0.0093 UF2	0.01 U	0.0098 U
Endosulfan sulfate	200	mg/kg	--	--	--	--	--	0.0072 UF1	0.0081 U	0.0076 U
Endosulfan-I	200	mg/kg	--	--	--	--	--	0.0074 UF1	0.0083 U	0.0079 U
Endosulfan-II	200	mg/kg	--	--	--	--	--	0.007 UF1	0.0078 U	0.0074 U
Endrin	89	mg/kg	--	--	--	--	--	0.0077 UF1	0.0086 U	0.0081 U
Endrin aldehyde	NE	mg/kg	--	--	--	--	--	0.0099 UF1	0.011 U	0.012 J
Endrin ketone	NE	mg/kg	--	--	--	--	--	0.0095 UF1F2	0.046	0.01 U
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--	--	0.0071 UF2	0.008 U	0.0075 U
Heptachlor	15	mg/kg	--	--	--	--	--	0.0084 UF1	0.0094 U	0.0089 U
Heptachlor epoxide	NE	mg/kg	--	--	--	--	--	0.01 UF1	0.011 U	0.011 U
Lindane	9.2	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--	--	0.0079 UF1F2	0.0088 U	0.0084 U
Toxaphene	NE	mg/kg	--	--	--	--	--	0.22 U	0.25 U	0.24 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	1	mg/kg	--	--	--	--	--	0.046 U	0.052 U	0.053 U
Aroclor 1221	1	mg/kg	--	--	--	--	--	0.046 U	0.052 U	0.053 U
Aroclor 1232	1	mg/kg	--	--	--	--	--	0.046 U	0.052 U	0.053 U
Aroclor 1242	1	mg/kg	--	--	--	--	--	0.046 U	0.052 U	0.053 U
Aroclor 1248	1	mg/kg	--	--	--	--	--	0.046 U	0.052 U	0.053 U
Aroclor 1254	1	mg/kg	--	--	--	--	--	0.11 U	0.56 J+	0.52 JN
Aroclor 1260	1	mg/kg	--	--	--	--	--	0.11 U	0.13 U	0.13 U
Aroclor 1268	1	mg/kg	--	--	--	--	--	--	--	--
Aroclor-1262	1	mg/kg	--	--	--	--	--	--	--	--
Total PCBs	1	mg/kg	--	--	--	--	--	ND	0.56 J	0.52 J

TABLE 2b
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ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-36	SS-37	SS-39	SS-40	SS-42	SS-42	SS-43	SS-43 (Dup)
	Commercial Use	Units	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0 - 2" 5/14/2020	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	0-2" 3/23/2021
Inorganics										
Aluminum	NE	mg/kg	--	--	--	--	--	5130 J+	9880 J+	9420 J+
Antimony	NE	mg/kg	--	--	--	--	--	0.46 U	1.2 J	0.6 J
Arsenic	16	mg/kg	--	--	--	--	--	10.3 J+	40.7 J+	23.4 J+
Barium	400	mg/kg	--	--	--	--	--	149 J-	157 J-	135 J-
Beryllium	590	mg/kg	--	--	--	--	--	0.42	0.41	0.38
Cadmium	9.3	mg/kg	--	--	--	--	--	0.36	3.3	2.8
Calcium	NE	mg/kg	--	--	--	--	--	1560 J+	6480 J+	6730 J+
Chromium	400	mg/kg	--	--	--	--	--	19 J	65.6 J	50.8 J
Cobalt	NE	mg/kg	--	--	--	--	--	4.9 J+	7.9 J+	9.7 J+
Copper	270	mg/kg	--	--	--	--	264 J-	137 J-	114 J-	66.7 J-
Iron	NE	mg/kg	--	--	--	--	--	31800 J	31600 J	26400 J
Lead	1,000	mg/kg	--	--	--	--	--	151 J+	217 J+	180 J+
Magnesium	NE	mg/kg	--	--	--	--	--	2230 J-	4750 J-	5360 J-
Manganese	10,000	mg/kg	--	--	--	--	--	128 J+	250 J+	285 J+
Mercury	2.8	mg/kg	--	--	--	--	--	0.31	1.3	1.1
Nickel	310	mg/kg	--	--	--	--	--	30.2 J	35.8 J	32.1 J
Potassium	NE	mg/kg	--	--	--	--	--	1950 J	1440 J	1570 J
Selenium	1,500	mg/kg	--	--	--	--	--	0.79 J	0.97 J	0.61 J
Silver	1,500	mg/kg	--	--	--	--	--	1.8	0.45 J	0.43 J
Sodium	NE	mg/kg	--	--	--	--	--	122 J	221	193
Thallium	NE	mg/kg	--	--	--	--	--	0.34 U	0.4 U	0.37 U
Vanadium	NE	mg/kg	--	--	--	--	--	27.2 J	48.1 J	43.2 J
Zinc	10,000	mg/kg	--	--	--	--	--	103 J-	1010 J-	844 J-
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
-/+ - Reported value may be biased low/high.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
R - Unreliable result; data is rejected or unusable
N - Tentative identification. Analyte is considered present.
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties

**TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	Soil Cleanup Objectives		SS-43	SS-43 (Dup)	SS-44	SS-44	SS-45	SS-45	SS-46	SS-46
	[6 NYCRR Subpart 375-6]	Commercial Use	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021
<i>Volatile Organic Compounds (VOCs)</i>										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	0.018 U	0.0006 UJ	--	0.014 U	--	0.016 U	--	0.015 U
1,1,2-Tetrachloroethane	NE	mg/kg	0.011 U	0.0013 UJ	--	0.0081 U	--	0.0095 U	--	0.0091 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	0.033 U	0.0019 UJ	--	0.025 U	--	0.029 U	--	0.028 U
1,1,2-Trichloroethane	NE	mg/kg	0.014 U	0.0011 UJ	--	0.01 U	--	0.012 U	--	0.012 U
1,1-Dichloroethane	240	mg/kg	0.02 U	0.001 UJ	--	0.015 U	--	0.018 U	--	0.017 U
1,1-Dichloroethene	500	mg/kg	0.023 U	0.001 UJ	--	0.017 U	--	0.02 U	--	0.019 U
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	0.025 U	0.0005 UJ	--	0.019 U	--	0.022 U	--	0.021 U
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	0.033 U	0.0041 UJ	--	0.025 U	--	0.029 U	--	0.028 U
1,2-Dibromoethane	NE	mg/kg	0.011 U	0.0011 UJ	--	0.0087 U	--	0.01 U	--	0.0098 U
1,2-Dichlorobenzene	500	mg/kg	0.017 U	0.00064 UJ	--	0.013 U	--	0.015 U	--	0.014 U
1,2-Dichloroethane	30	mg/kg	0.027 U	0.00041 UJ	--	0.02 U	--	0.024 U	--	0.023 U
1,2-Dichloropropane	NE	mg/kg	0.011 U	0.0041 UJ	--	0.0081 U	--	0.0095 U	--	0.0091 U
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	0.017 U	0.00042 UJ	--	0.013 U	--	0.016 U	--	0.015 U
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	0.0091 U	0.0012 UJ	--	0.007 U	--	0.0082 U	--	0.0078 U
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	500	mg/kg	0.19 U	0.003 UJ	--	0.15 U	--	0.17 U	--	0.17 U
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	0.13 U	0.0041 UJ	--	0.1 U	--	0.12 U	--	0.11 U
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	0.077 J	0.0027 UJ	--	0.016 U	--	0.019 U	--	0.018 U
Acetone	500	mg/kg	0.27 U	0.0082 J	--	0.2 U	--	0.24 U	--	0.23 U
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	44	mg/kg	0.012 U	0.0004 UJ	--	0.0094 U	--	0.011 U	--	0.011 U
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	0.013 U	0.0011 UJ	--	0.0099 U	--	0.012 U	--	0.011 U
Bromoform	NE	mg/kg	0.033 U	0.0041 UJ	--	0.025 U	--	0.029 U	--	0.028 U
Bromomethane	NE	mg/kg	0.014 U	0.00074 UJ	--	0.011 U	--	0.013 U	--	0.012 U
Carbon disulfide	NE	mg/kg	0.03 U	0.0041 UJ	--	0.023 U	--	0.027 U	--	0.025 U
Carbon tetrachloride	22	mg/kg	0.081 J	0.0008 UJ	--	0.013 U	--	0.015 U	--	0.014 U
Chlorobenzene	500	mg/kg	0.0086 U	0.0011 UJ	--	0.0066 U	--	0.0078 U	--	0.0074 U
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-43	SS-43 (Dup)	SS-44	SS-44	SS-45	SS-45	SS-46	SS-46
	Commercial Use	Units	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021
Chloroethane	NE	mg/kg	0.014 U	0.0019 UJ	--	0.01 U	--	0.012 U	--	0.012 U
Chloroform	350	mg/kg	0.045 U	0.00051 UJ	--	0.034 U	--	0.04 U	--	0.038 U
Chloromethane	NE	mg/kg	0.016 U	0.0005 UJ	--	0.012 U	--	0.014 U	--	0.013 U
cis-1,2-Dichloroethene	500	mg/kg	0.018 U	0.0011 UJ	--	0.014 U	--	0.016 U	--	0.015 U
cis-1,3-Dichloropropene	NE	mg/kg	0.016 U	0.0012 UJ	--	0.012 U	--	0.014 U	--	0.013 U
Cyclohexane	NE	mg/kg	0.028 J	0.0012 UJ	--	0.011 U	--	0.013 U	--	0.012 U
Dibromochloromethane	NE	mg/kg	0.032 U	0.0011 UJ	--	0.024 U	--	0.028 U	--	0.027 U
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	0.028 U	0.00068 UJ	--	0.022 U	--	0.026 U	--	0.024 U
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	390	mg/kg	0.019 U	0.00057 UJ	--	0.014 U	--	0.017 U	--	0.016 U
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	0.0098 U	0.0012 UJ	--	0.0075 U	--	0.0088 U	--	0.013 J
Methyl Acetate	NE	mg/kg	0.55 J	0.005 UJ	--	0.15 J	--	0.47	--	0.027 U
Methyl cyclohexane	NE	mg/kg	0.078 J	0.0013 UJ	--	0.023 U	--	0.028 U	--	0.026 U
Methyl tert butyl ether	500	mg/kg	0.025 U	0.00081 UJ	--	0.019 U	--	0.022 U	--	0.021 U
Methylene chloride	500	mg/kg	0.013 U	0.0038 UJ	--	0.0098 U	--	0.012 U	--	0.011 U
Naphthalene	500	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	0.016 U	0.00041 UJ	--	0.012 U	--	0.064	--	0.066
tert-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	150	mg/kg	0.73	0.0022 J	--	0.025 J	--	0.0079 U	--	0.035 J
Toluene	500	mg/kg	0.054 J	0.00062 UJ	--	0.013 U	--	0.016 U	--	0.015 U
trans-1,2-Dichloroethene	500	mg/kg	0.015 U	0.00085 UJ	--	0.012 U	--	0.014 U	--	0.013 U
trans-1,3-Dichloropropene	NE	mg/kg	0.0064 U	0.0036 UJ	--	0.0049 U	--	0.0058 U	--	0.0055 U
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	200	mg/kg	0.018 U	0.0018 UJ	--	0.014 U	--	0.016 U	--	0.016 U
Trichlorofluoromethane	NE	mg/kg	0.031 U	0.00078 UJ	--	0.24	--	2.5	--	1.7
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	13	mg/kg	0.022 U	0.001 UJ	--	0.017 U	--	0.02 U	--	0.019 U
Xylene (total)	500	mg/kg	0.19 J	0.0014 UJ	--	0.028 U	--	0.033 U	--	0.031 U

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Commercial Use	Units	SS-43	SS-43 (Dup)	SS-44	SS-44	SS-45	SS-45	SS-46	SS-46
			2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	500	mg/kg	1.2 U	0.61 U	0.29 U	0.27 U	1.4 U	1.4 U	1.4 U	1.4 U
Acenaphthylene	500	mg/kg	5 J	5.1	0.32 J	0.45 J	1.3 U	1.3 U	1.3 U	1.4 J
Anthracene	500	mg/kg	4.5 J	4.3	0.49 U	0.46 J	2.4 U	2.4 U	2.4 U	2.4 U
Benz(a)anthracene	5.6	mg/kg	13	13	1.7 J	2.8	2.4 J	1.9 J	8.8 J	7.1 J
Benzo(a)pyrene	1	mg/kg	13	13	2	3.9	2.6 J	1.9 J	8.2 J	7.1 J
Benzo(b)fluoranthene	5.6	mg/kg	20	20	2.5	3.6	3.4 J	2.4 J	9.6 J	8.3 J
Benzo(g,h,i)perylene	500	mg/kg	9.6	7.8	0.96 J	1.8 J	1.1 J	1 U	4.7 J	3.3 J
Benzo(k)fluoranthene	56	mg/kg	7.9 J	8.7	0.88 J	2.1	1.3 U	1.3 U	4.9 J	3.3 J
Chrysene	56	mg/kg	15	13	1.6 J	2.8	2.2 U	2.2 U	7.9 J	6 J
Dibenz(a,h)anthracene	0.56	mg/kg	1.5 U	2.9 J	0.35 U	0.48 J	1.7 U	1.7 U	1.7 U	1.7 U
Fluoranthene	500	mg/kg	27	23	3.5	5.1	5.1 J	4.2 J	19	15
Fluorene	500	mg/kg	0.98 U	0.7 J	0.23 U	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	9	8.5	0.99 J	1.8 J	1.2 U	1.2 U	4.5 J	3.5 J
Naphthalene	500	mg/kg	1.1 U	2.2 J	0.25 U	0.24 U	1.3 U	1.3 U	1.3 U	1.3 U
Phenanthrene	500	mg/kg	8.8	11	1.5 J	1.1 J	3.3 J	2.5 J	10	8.2 J
Pyrene	500	mg/kg	20	17	2.8	5.2	3.8 J	3 J	14	12
2-Methylnaphthalene	NE	mg/kg	1.7 U	0.92 J	0.39 U	0.37 U	2 U	2 U	2 U	2 U
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	2.3 U	1.1 U	0.53 U	0.5 U	2.7 U	2.7 U	2.7 U	2.6 U
2,4,6-Trichlorophenol	NE	mg/kg	1.7 U	0.82 U	0.39 U	0.37 U	2 U	2 U	2 U	2 U
2,4-Dichlorophenol	NE	mg/kg	0.88 U	0.44 U	0.21 U	0.2 U	1 U	1 U	1 U	1 U
2,4-Dimethylphenol	NE	mg/kg	2 U	0.99 U	0.47 U	0.45 U	2.4 U	2.4 U	2.4 U	2.4 U
2,4-Dinitrophenol	NE	mg/kg	38 U	19 U	9.1 U	8.6 U	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	NE	mg/kg	1.7 U	0.85 U	0.4 U	0.38 U	2 U	2 U	2 U	2 U
2,6-Dinitrotoluene	NE	mg/kg	0.98 U	0.48 U	0.23 U	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Chloronaphthalene	NE	mg/kg	1.4 U	0.68 U	0.32 U	0.31 U	1.6 U	1.6 U	1.6 U	1.6 U
2-Chlorophenol	NE	mg/kg	1.5 U	0.75 U	0.36 U	0.34 U	1.8 U	1.8 U	1.8 U	1.8 U
2-Methylphenol	500	mg/kg	0.98 U	0.48 U	0.23 U	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Nitroaniline	NE	mg/kg	1.2 U	0.61 U	0.29 U	0.27 U	1.4 U	1.4 U	1.4 U	1.4 U
2-Nitrophenol	NE	mg/kg	2.4 U	1.2 U	0.56 U	0.53 U	2.8 U	2.8 U	2.8 U	2.8 U
3&4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	9.8 U	4.8 U	2.3 U	2.2 U	12 U	12 U	12 U	12 U
3-Nitroaniline	NE	mg/kg	2.3 U	1.1 U	0.54 U	0.51 U	2.7 U	2.7 U	2.7 U	2.7 U

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-43	SS-43 (Dup)	SS-44	SS-44	SS-45	SS-45	SS-46	SS-46
	Commercial Use	Units	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021
4,6-Dinitro-o-cresol	NE	mg/kg	8.3 U	4.1 U	2 U	1.9 U	9.8 U	9.9 U	9.8 U	9.8 U
4-Bromophenyl phenyl ether	NE	mg/kg	1.2 U	0.58 U	0.28 U	0.26 U	1.4 U	1.4 U	1.4 U	1.4 U
4-Chloro-3-methyl phenol	NE	mg/kg	2.1 U	1 U	0.49 U	0.46 U	2.4 U	2.4 U	2.4 U	2.4 U
4-Chloroaniline	NE	mg/kg	2.1 U	1 U	0.49 U	0.46 U	2.4 U	2.4 U	2.4 U	2.4 U
4-Chlorophenyl phenyl ether	NE	mg/kg	1 U	0.51 U	0.24 U	0.23 U	1.2 U	1.2 U	1.2 U	1.2 U
4-Methylphenol	500	mg/kg	0.98 U	0.48 U	0.23 U	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U
4-Nitroaniline	NE	mg/kg	4.4 U	2.2 U	1 U	0.98 U	5.1 U	5.2 U	5.1 U	5.1 U
4-Nitrophenol	NE	mg/kg	5.8 U	2.9 U	1.4 U	1.3 U	6.9 U	6.9 U	6.9 U	6.9 U
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	2.9 U	1.4 U	0.68 U	0.65 U	3.4 U	3.4 U	3.4 U	3.4 U
Benzaldehyde	NE	mg/kg	6.6 U	3.3 U	1.6 U	1.5 U	7.8 U	7.8 U	7.8 U	7.8 U
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	2.2 J	0.68 U	0.32 U	0.31 U	1.6 U	1.6 U	1.6 U	1.6 U
bis(2-Chloroethoxy)methane	NE	mg/kg	1.2 U	0.61 U	0.29 U	0.27 U	1.4 U	1.4 U	1.4 U	1.4 U
bis(2-Chloroethyl)ether	NE	mg/kg	1.8 U	0.87 U	0.42 U	0.39 U	2.1 U	2.1 U	2.1 U	2.1 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	1.1 U	0.53 U	0.25 U	0.24 U	1.3 U	1.3 U	1.3 U	1.3 U
bis(2-Ethylhexyl)phthalate	NE	mg/kg	1.7 U	0.82 U	0.39 U	0.37 U	2 U	2 U	2 U	2 U
Butyl benzyl phthalate	NE	mg/kg	2.8 U	1.4 U	0.67 U	0.64 U	3.4 U	3.4 U	3.4 U	3.3 U
Caprolactam	NE	mg/kg	2.5 U	1.2 U	0.59 U	0.56 U	2.9 U	3 U	3 U	2.9 U
Carbazole	NE	mg/kg	3.8 J	3 J	0.23 U	0.22 U	1.2 U	1.2 U	1.7 J	1.3 J
Dibenzofuran	350	mg/kg	0.98 U	1.8 J	0.23 U	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U
Diethyl phthalate	NE	mg/kg	1.1 U	0.53 U	0.25 U	0.24 U	1.3 U	1.3 U	1.3 U	1.3 U
Dimethyl phthalate	NE	mg/kg	0.98 U	0.48 U	0.23 U	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U
Di-n-butyl phthalate	NE	mg/kg	1.4 U	0.7 U	0.34 U	0.32 U	1.7 U	1.7 U	1.7 U	1.7 U
Di-n-octyl phthalate	NE	mg/kg	0.98 U	0.48 U	0.23 U	0.22 U	1.2 U	1.2 U	1.2 U	1.2 U
Hexachlorobenzene	6	mg/kg	1.1 U	0.56 U	0.27 U	0.25 U	1.3 U	1.3 U	1.3 U	1.3 U
Hexachlorobutadiene	NE	mg/kg	1.2 U	0.61 U	0.29 U	0.27 U	1.4 U	1.4 U	1.4 U	1.4 U
Hexachlorocyclopentadiene	NE	mg/kg	1.1 U	0.56 U	0.27 U	0.25 U	1.3 U	1.3 U	1.3 U	1.3 U
Hexachloroethane	NE	mg/kg	1.1 U	0.53 U	0.25 U	0.24 U	1.3 U	1.3 U	1.3 U	1.3 U
Isophorone	NE	mg/kg	1.8 U	0.87 U	0.42 U	0.39 U	2.1 U	2.1 U	2.1 U	2.1 U
Nitrobenzene	NE	mg/kg	0.93 U	0.46 U	0.22 U	0.21 U	1.1 U	1.1 U	1.1 U	1.1 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	1.4 U	0.7 U	0.34 U	0.32 U	1.7 U	1.7 U	1.7 U	1.7 U
N-Nitrosodiphenylamine	NE	mg/kg	6.8 U	3.3 U	1.6 U	1.5 U	8 U	8 U	8 U	7.9 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	6.7	mg/kg	8.3 U	4.1 U	2 U	1.9 U	9.8 U	9.9 U	9.8 U	9.8 U
Phenol	500	mg/kg	1.3 U	0.63 U	0.3 U	0.28 U	1.5 U	1.5 U	1.5 U	1.5 U

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-43	SS-43 (Dup)	SS-44	SS-44	SS-45	SS-45	SS-46	SS-46
	Commercial Use	Units	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	92	mg/kg	0.024 R	0.2 J-	0.0075 U	0.0072 U	0.0075 U	0.0076 U	0.019 U	0.019 U
4,4'-DDE	62	mg/kg	0.067	0.08 J-	0.0081 U	0.0078 U	0.05	0.0082 U	0.02 U	0.02 U
4-4'-DDT	47	mg/kg	1.1	1.6 J+	0.011 J-	0.0087 U	0.2	0.0091 U	0.025 J	0.028 J
Aldrin	0.68	mg/kg	0.01 U	0.049 U	0.0094 U	0.0092 U	0.0095 U	0.0096 U	0.024 U	0.024 U
alpha-BHC	3.4	mg/kg	0.14	0.12 J+	0.0069 U	0.0067 U	0.007 U	0.007 U	0.017 U	0.017 U
beta-BHC	3	mg/kg	0.29	0.079 J	0.0069 U	0.0067 U	0.007 U	0.007 U	0.017 U	0.017 U
Chlordane, alpha	24	mg/kg	0.02 U	0.1 U	0.019 U	0.019 U	0.019 U	0.019 U	0.048 U	0.048 U
Chlordane, beta	NE	mg/kg	0.013 U	0.064 U	0.012 U	0.012 U	0.017 R	0.012 U	0.031 U	0.031 U
Chlordane	24	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	500	mg/kg	0.024 J	0.037 U	0.0071 U	0.0069 U	0.0072 U	0.0072 U	0.018 U	0.018 U
Dieldrin	1.4	mg/kg	0.04 R	0.048 U	0.0092 U	0.0089 U	0.0093 U	0.0093 U	0.023 U	0.023 U
Endosulfan sulfate	200	mg/kg	0.0085 R	0.048 R	0.0072 U	0.007 U	0.0072 U	0.0073 U	0.018 U	0.018 U
Endosulfan-I	200	mg/kg	0.0079 U	0.039 U	0.0074 U	0.0072 U	0.0074 U	0.0075 U	0.019 U	0.018 U
Endosulfan-II	200	mg/kg	0.1	0.036 U	0.0069 U	0.0067 U	0.007 U	0.007 U	0.017 U	0.017 U
Endrin	89	mg/kg	0.16	0.04 U	0.0076 U	0.0074 U	0.0077 U	0.0077 U	0.019 U	0.019 U
Endrin aldehyde	NE	mg/kg	0.22 J	0.85 J	0.0098 U	0.0095 U	0.0099 U	0.01 U	0.025 U	0.025 U
Endrin ketone	NE	mg/kg	0.16	0.049 U	0.0094 U	0.0092 U	0.0095 U	0.0096 U	0.024 U	0.024 U
gamma-BHC (Lindane)	NE	mg/kg	0.069	0.037 U	0.0071 U	0.0068 U	0.0071 U	0.0071 U	0.018 U	0.018 U
Heptachlor	15	mg/kg	0.0089 U	0.044 U	0.0083 U	0.0081 U	0.0084 U	0.0084 U	0.021 U	0.021 U
Heptachlor epoxide	NE	mg/kg	0.011 U	0.052 U	0.0099 U	0.0096 U	0.01 U	0.01 U	0.025 U	0.025 U
Lindane	9.2	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.39	1.7 J	0.0078 U	0.0076 U	0.06	0.0079 U	0.02 U	0.02 U
Toxaphene	NE	mg/kg	0.24 U	20	0.22 U	0.22 U	0.23 U	0.23 U	0.56 U	0.56 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	1	mg/kg	0.051 U	0.052 U	0.048 U	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U
Aroclor 1221	1	mg/kg	0.051 U	0.052 U	0.048 U	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U
Aroclor 1232	1	mg/kg	0.051 U	0.052 U	0.048 U	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U
Aroclor 1242	1	mg/kg	0.051 U	0.052 U	0.048 U	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U
Aroclor 1248	1	mg/kg	0.051 U	0.052 U	0.048 U	0.04 U	0.056 U	0.057 U	0.042 U	0.042 U
Aroclor 1254	1	mg/kg	0.12 U	0.12 U	0.11 U	0.096 U	0.24 J	0.14 J	0.1 U	0.1 U
Aroclor 1260	1	mg/kg	0.12 U	0.12 U	0.11 U	0.096 U	0.13 U	0.14 U	0.1 U	0.1 U
Aroclor 1268	1	mg/kg	--	--	--	--	--	--	--	--
Aroclor-1262	1	mg/kg	--	--	--	--	--	--	--	--
Total PCBs	1	mg/kg	ND	ND	ND	ND	0.24 J	0.14 J	ND	ND

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-43	SS-43 (Dup)	SS-44	SS-44	SS-45	SS-45	SS-46	SS-46
	Commercial Use	Units	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021
Inorganics										
Aluminum	NE	mg/kg	5190 J+	3340 J+	10900 J+	13700 J+	12000 J+	11700 J+	9260 J+	10400 J+
Antimony	NE	mg/kg	1.6 J	2 J	0.48 U	0.45 U	0.48 U	0.48 U	0.45 U	0.48 U
Arsenic	16	mg/kg	23.8 J+	16.8	3.7 J+	4.6 J+	8.1 J+	6.9 J+	6.4 J+	6 J+
Barium	400	mg/kg	212 J-	199	85.9 J-	80.6 J-	91.9 J-	102 J-	358 J-	110 J-
Beryllium	590	mg/kg	0.51	0.38	0.35	0.39	0.4	0.39	0.34	0.42
Cadmium	9.3	mg/kg	1.9 J	1.1 J	0.38	0.53	0.61	0.86	1.4	1.5
Calcium	NE	mg/kg	2350 J+	1510 J	4040 J+	4270 J+	8970 J+	34400 J+	53200 J+	94200 J+
Chromium	400	mg/kg	57.4 J	53.3	32.3 J	30 J	31.3 J	28.9 J	39.5 J	22.7 J
Cobalt	NE	mg/kg	5.7 J+	3.9 J	7 J+	6.9 J+	6 J+	5.2 J+	4.2 J+	4.2 J+
Copper	270	mg/kg	156 J-	83 J	25.9 J-	27.3 J-	26.7 J-	24.9 J-	26.1 J-	24.4 J-
Iron	NE	mg/kg	38800 J	45900	18400 J	20200 J	30600 J	24300 J	13800 J	12500 J
Lead	1,000	mg/kg	322 J+	288	42.4 J+	468 J+	45.3 J+	48.5 J+	151 J+	60.5 J+
Magnesium	NE	mg/kg	2030 J-	1100 J+	4750 J-	5030 J-	4660 J-	7850 J-	7120 J-	6550 J-
Manganese	10,000	mg/kg	218 J+	209	261 J+	270 J+	303 J+	340 J+	232 J+	265 J+
Mercury	2.8	mg/kg	1.8	3 J	0.39	0.28	0.37	0.45	1	1.2
Nickel	310	mg/kg	35.1 J	18.6 J	25 J	25.2 J	29.5 J	18 J	13.7 J	14.4 J
Potassium	NE	mg/kg	1470 J	2330 J+	1910 J	1730 J	1690 J	1630 J	1480 J	1320 J
Selenium	1,500	mg/kg	1.1 J	1.1 J	0.48 U	0.45 U	0.48 U	0.48 U	0.45 U	0.48 U
Silver	1,500	mg/kg	0.55 J	0.51 J	0.24 U	0.23 U	0.24 U	0.24 U	0.22 U	0.24 U
Sodium	NE	mg/kg	171 J	167 J	146 J	188	715	856	700	992
Thallium	NE	mg/kg	0.38 U	0.37 U	0.36 U	0.34 U	0.36 U	0.36 U	0.34 U	0.36 U
Vanadium	NE	mg/kg	63.4 J	49.1	31.7 J	33.2 J	29.3 J	29 J	25.9 J	24.2 J
Zinc	10,000	mg/kg	406 J-	191 J	88.8 J-	85.5 J-	108 J-	275 J-	432 J-	272 J-
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
-/+ - Reported value may be biased low/high.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
R - Unreliable result; data is rejected or unusable
N - Tentative identification. Analyte is considered present.
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-47	SS-47	SS-48	SS-48	SS-49	SS-50	SS-51	SS-51
	Commercial Use	Units	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
Volatile Organic Compounds (VOCs)										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	--	0.016 U	--	0.033 U	0.015 U	--	--	0.021 U
1,1,2,2-Tetrachloroethane	NE	mg/kg	--	0.0092 U	--	0.019 U	0.0089 U	--	--	0.013 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	--	0.028 U	--	0.059 U	0.028 U	--	--	0.039 U
1,1,2-Trichloroethane	NE	mg/kg	--	0.012 U	--	0.025 U	0.012 U	--	--	0.016 U
1,1-Dichloroethane	240	mg/kg	--	0.017 U	--	0.036 U	0.017 U	--	--	0.024 U
1,1-Dichloroethene	500	mg/kg	--	0.02 U	--	0.041 U	0.019 U	--	--	0.027 U
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	0.021 U	--	0.045 U	0.021 U	--	--	0.029 U
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	--	0.028 U	--	0.059 U	0.028 U	--	--	0.039 U
1,2-Dibromoethane	NE	mg/kg	--	0.0099 U	--	0.021 U	0.0096 U	--	--	0.013 U
1,2-Dichlorobenzene	500	mg/kg	--	0.014 U	--	0.03 U	0.014 U	--	--	0.02 U
1,2-Dichloroethane	30	mg/kg	--	0.023 U	--	0.048 U	0.023 U	--	--	0.032 U
1,2-Dichloropropane	NE	mg/kg	--	0.0091 U	--	0.019 U	0.0089 U	--	--	0.012 U
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	--	0.015 U	--	0.031 U	0.015 U	--	--	0.021 U
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	--	0.0079 U	--	0.016 U	0.0077 U	--	--	0.011 U
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	500	mg/kg	--	0.17 U	--	0.35 U	0.16 U	--	--	0.23 U
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	--	0.12 U	--	0.24 U	0.11 U	--	--	0.16 U
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	--	0.018 U	--	0.11 J	0.096 J	--	--	0.025 U
Acetone	500	mg/kg	--	0.23 U	--	0.48 U	0.23 U	--	--	0.32 U
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	44	mg/kg	--	0.028 J	--	0.022 U	0.03 J	--	--	0.015 U
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	0.011 U	--	0.024 U	0.011 U	--	--	0.015 U
Bromoform	NE	mg/kg	--	0.028 U	--	0.059 U	0.028 U	--	--	0.039 U
Bromomethane	NE	mg/kg	--	0.012 U	--	0.026 U	0.012 U	--	--	0.017 U
Carbon disulfide	NE	mg/kg	--	0.026 U	--	0.054 U	0.093	--	--	0.035 U
Carbon tetrachloride	22	mg/kg	--	0.014 U	--	0.03 U	0.014 U	--	--	0.03 J
Chlorobenzene	500	mg/kg	--	0.0074 U	--	0.016 U	0.0073 U	--	--	0.01 U
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--

**TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-47	SS-47	SS-48	SS-48	SS-49	SS-50	SS-51	SS-51
	Commercial Use	Units	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
Chloroethane	NE	mg/kg	--	0.012 U	--	0.025 U	0.011 U	--	--	0.016 U
Chloroform	350	mg/kg	--	0.039 U	--	0.081 U	0.038 U	--	--	0.053 U
Chloromethane	NE	mg/kg	--	0.013 U	--	0.028 U	0.013 U	--	--	0.018 U
cis-1,2-Dichloroethene	500	mg/kg	--	0.016 U	--	0.033 U	0.015 U	--	--	0.021 U
cis-1,3-Dichloropropene	NE	mg/kg	--	0.013 U	--	0.028 U	0.013 U	--	--	0.018 U
Cyclohexane	NE	mg/kg	--	0.016 J	--	0.026 U	0.012 U	--	--	0.017 U
Dibromochloromethane	NE	mg/kg	--	0.027 U	--	0.057 U	0.027 U	--	--	0.037 U
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	--	0.025 U	--	0.051 U	0.024 U	--	--	0.034 U
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	390	mg/kg	--	0.016 U	--	0.035 J	0.1	--	--	0.022 U
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	--	0.0085 U	--	0.021 J	0.056	--	--	0.012 U
Methyl Acetate	NE	mg/kg	--	0.34	--	0.056 U	0.2 J	--	--	0.037 U
Methyl cyclohexane	NE	mg/kg	--	0.052 J	--	0.055 U	0.026 U	--	--	0.036 U
Methyl tert butyl ether	500	mg/kg	--	0.021 U	--	0.045 U	0.021 U	--	--	0.029 U
Methylene chloride	500	mg/kg	--	0.011 U	--	0.034 J	0.011 U	--	--	0.019 J
Naphthalene	500	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	--	0.044 J	--	0.58	0.23	--	--	0.019 U
tert-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	150	mg/kg	--	0.13	--	0.016 U	0.07	--	--	1.5
Toluene	500	mg/kg	--	0.03 J	--	0.032 U	0.015 U	--	--	0.021 U
trans-1,2-Dichloroethene	500	mg/kg	--	0.013 U	--	0.028 U	0.013 U	--	--	0.018 U
trans-1,3-Dichloropropene	NE	mg/kg	--	0.0055 U	--	0.012 U	0.0054 U	--	--	0.0076 U
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	200	mg/kg	--	0.016 U	--	0.033 U	0.015 U	--	--	0.021 U
Trichlorofluoromethane	NE	mg/kg	--	1.6	--	2	1.2	--	--	0.036 U
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	13	mg/kg	--	0.019 U	--	0.039 U	0.018 U	--	--	0.026 U
Xylene (total)	500	mg/kg	--	0.082 J	--	0.068 J	0.22	--	--	0.043 U

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Commercial Use	Units	SS-47	SS-47	SS-48	SS-48	SS-49	SS-50	SS-51	SS-51
			0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	500	mg/kg	0.29 U	0.29 U	2.3 J	1.6 J	5.2 J	0.59 U	1.7 J	0.81 J
Acenaphthylene	500	mg/kg	0.26 U	0.26 J	1.2 U	1.3 U	1.2 U	0.52 U	1.4 J	2 J
Anthracene	500	mg/kg	0.49 U	0.48 U	6.7 J	3.5 J	9.3 J	0.98 U	5.1	3.1
Benz(a)anthracene	5.6	mg/kg	1.6 J	1.4 J	21	11	17	1.9 J	15	8.8
Benzo(a)pyrene	1	mg/kg	1.7 J	1.5 J	23	13	17	1.8 J	13	7.8
Benzo(b)fluoranthene	5.6	mg/kg	1.9 J	1.8 J	23	14	17	2 J	16	10
Benzo(g,h,i)perylene	500	mg/kg	0.96 J	0.72 J	13	7.6 J	8.2 J	1.3 J	8.1	5.2
Benzo(k)fluoranthene	56	mg/kg	1.2 J	0.85 J	12	7.6 J	8.8 J	0.94 J	7.5	3.7
Chrysene	56	mg/kg	1.5 J	1.4 J	21	11	16	1.7 J	14	7.3
Dibenz(a,h)anthracene	0.56	mg/kg	0.35 U	0.34 U	4.5 J	2.5 J	2.9 J	0.7 U	2.8	1.8 J
Fluoranthene	500	mg/kg	3.1	2.8	50	27	42	3.6 J	31	16
Fluorene	500	mg/kg	0.24 U	0.23 U	1.5 J	1.2 U	4.1 J	0.47 U	1.9 J	1.3 J
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	0.87 J	0.74 J	12	7.2 J	8.4 J	1.1 J	8	5.4
Naphthalene	500	mg/kg	0.26 U	0.25 U	1.2 U	1.3 U	1.3 J	0.52 U	0.8 J	0.47 J
Phenanthrene	500	mg/kg	1.4 J	1.5 J	19	13	32	2.1 J	18	10
Pyrene	500	mg/kg	2.5	2.2	38	21	32	2.6 J	21	11
2-Methylnaphthalene	NE	mg/kg	--	0.39 U	1.9 U	2 U	1.9 U	--	--	0.43 U
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	0.53 U	2.6 U	2.7 U	2.6 U	--	--	0.58 U
2,4,6-Trichlorophenol	NE	mg/kg	--	0.39 U	1.9 U	2 U	1.9 U	--	--	0.43 U
2,4-Dichlorophenol	NE	mg/kg	--	0.21 U	1 U	1.1 U	1 U	--	--	0.23 U
2,4-Dimethylphenol	NE	mg/kg	--	0.47 U	2.3 U	2.4 U	2.3 U	--	--	0.52 U
2,4-Dinitrophenol	NE	mg/kg	--	9 U	44 U	46 U	44 U	--	--	9.9 U
2,4-Dinitrotoluene	NE	mg/kg	--	0.4 U	2 U	2.1 U	2 U	--	--	0.44 U
2,6-Dinitrotoluene	NE	mg/kg	--	0.23 U	1.1 U	1.2 U	1.1 U	--	--	0.25 U
2-Chloronaphthalene	NE	mg/kg	--	0.32 U	1.6 U	1.7 U	1.6 U	--	--	0.35 U
2-Chlorophenol	NE	mg/kg	--	0.35 U	1.7 U	1.8 U	1.7 U	--	--	0.39 U
2-Methylphenol	500	mg/kg	--	0.23 U	1.1 U	1.2 U	1.1 U	--	--	0.25 U
2-Nitroaniline	NE	mg/kg	--	0.29 U	1.4 U	1.5 U	1.4 U	--	--	0.32 U
2-Nitrophenol	NE	mg/kg	--	0.55 U	2.7 U	2.8 U	2.7 U	--	--	0.61 U
3&4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	2.3 U	11 U	12 U	11 U	--	--	2.5 U
3-Nitroaniline	NE	mg/kg	--	0.54 U	2.7 U	2.8 U	2.6 U	--	--	0.59 U

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-47	SS-47	SS-48	SS-48	SS-49	SS-50	SS-51	SS-51
	Commercial Use	Units	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
4,6-Dinitro-o-cresol	NE	mg/kg	--	1.9 U	9.6 U	10 U	9.5 U	--	--	2.1 U
4-Bromophenyl phenyl ether	NE	mg/kg	--	0.27 U	1.4 U	1.4 U	1.3 U	--	--	0.3 U
4-Chloro-3-methyl phenol	NE	mg/kg	--	0.48 U	2.4 U	2.5 U	2.3 U	--	--	0.53 U
4-Chloroaniline	NE	mg/kg	--	0.48 U	2.4 U	2.5 U	2.3 U	--	--	0.53 U
4-Chlorophenyl phenyl ether	NE	mg/kg	--	0.24 U	1.2 U	1.2 U	1.2 U	--	--	0.27 U
4-Methylphenol	500	mg/kg	--	0.23 U	1.1 U	1.2 U	1.1 U	--	--	0.25 U
4-Nitroaniline	NE	mg/kg	--	1 U	5 U	5.3 U	5 U	--	--	1.1 U
4-Nitrophenol	NE	mg/kg	--	1.4 U	6.7 U	7 U	6.7 U	--	--	1.5 U
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	--	0.67 U	3.3 U	3.5 U	3.3 U	--	--	0.75 U
Benzaldehyde	NE	mg/kg	--	1.5 U	7.6 U	8 U	7.5 U	--	--	1.7 U
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	--	0.32 U	6.4 J	2.3 J	1.6 U	--	--	0.35 U
bis(2-Chloroethoxy)methane	NE	mg/kg	--	0.29 U	1.4 U	1.5 U	1.4 U	--	--	0.32 U
bis(2-Chloroethyl)ether	NE	mg/kg	--	0.41 U	2 U	2.1 U	2 U	--	--	0.45 U
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	0.25 U	1.2 U	1.3 U	1.2 U	--	--	0.28 U
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	0.39 U	1.9 U	2 U	1.9 U	--	--	0.43 U
Butyl benzyl phthalate	NE	mg/kg	--	0.66 U	3.3 U	3.4 U	3.2 U	--	--	0.73 U
Caprolactam	NE	mg/kg	--	0.58 U	2.9 U	3 U	2.9 U	--	--	0.64 U
Carbazole	NE	mg/kg	--	0.23 U	2 J	1.8 J	3.5 J	--	--	1.4 J
Dibenzofuran	350	mg/kg	--	0.23 U	1.1 U	1.2 U	2.4 J	--	--	0.6 J
Diethyl phthalate	NE	mg/kg	--	0.25 U	1.2 U	1.3 U	1.2 U	--	--	0.28 U
Dimethyl phthalate	NE	mg/kg	--	0.23 U	1.1 U	1.2 U	1.1 U	--	--	0.25 U
Di-n-butyl phthalate	NE	mg/kg	--	0.33 U	1.6 U	1.7 U	1.6 U	--	--	0.37 U
Di-n-octyl phthalate	NE	mg/kg	--	0.23 U	1.1 U	1.2 U	1.1 U	--	--	0.25 U
Hexachlorobenzene	6	mg/kg	--	0.26 U	1.3 U	1.4 U	1.3 U	--	--	0.29 U
Hexachlorobutadiene	NE	mg/kg	--	0.29 U	1.4 U	1.5 U	1.4 U	--	--	0.32 U
Hexachlorocyclopentadiene	NE	mg/kg	--	0.26 U	1.3 U	1.4 U	1.3 U	--	--	0.29 U
Hexachloroethane	NE	mg/kg	--	0.25 U	1.2 U	1.3 U	1.2 U	--	--	0.28 U
Isophorone	NE	mg/kg	--	0.41 U	2 U	2.1 U	2 U	--	--	0.45 U
Nitrobenzene	NE	mg/kg	--	0.22 U	1.1 U	1.1 U	1.1 U	--	--	0.24 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	0.33 U	1.6 U	1.7 U	1.6 U	--	--	0.37 U
N-Nitrosodiphenylamine	NE	mg/kg	--	1.6 U	7.8 U	8.2 U	7.7 U	--	--	1.7 U
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	6.7	mg/kg	--	1.9 U	9.6 U	10 U	9.5 U	--	--	2.1 U
Phenol	500	mg/kg	--	0.3 U	1.5 U	1.5 U	1.5 U	--	--	0.33 U

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-47	SS-47	SS-48	SS-48	SS-49	SS-50	SS-51	SS-51
	Commercial Use	Units	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	92	mg/kg	--	0.0074 U	0.018 U	0.019 U	0.018 U	--	--	0.0081 U
4,4'-DDE	62	mg/kg	--	0.008 U	0.16	0.035 J	0.02 U	--	--	0.0088 U
4-4'-DDT	47	mg/kg	--	0.036 J	0.47	0.22	0.075 J-	--	--	0.0098 U
Aldrin	0.68	mg/kg	--	0.0093 U	0.023 U	0.024 U	0.023 U	--	--	0.01 U
alpha-BHC	3.4	mg/kg	--	0.0068 U	0.017 U	0.018 U	0.017 U	--	--	0.0075 U
beta-BHC	3	mg/kg	--	0.0068 U	0.017 U	0.018 U	0.017 U	--	--	0.0075 U
Chlordane, alpha	24	mg/kg	--	0.019 U	0.047 U	0.049 U	0.047 U	--	--	0.021 U
Chlordane, beta	NE	mg/kg	--	0.012 U	0.03 U	0.031 U	0.03 U	--	--	0.013 U
Chlordane	24	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	500	mg/kg	--	0.0071 U	0.017 U	0.018 U	0.018 U	--	--	0.0078 U
Dieldrin	1.4	mg/kg	--	0.0091 U	0.023 U	0.023 U	0.023 U	--	--	0.01 U
Endosulfan sulfate	200	mg/kg	--	0.0071 U	0.018 U	0.018 U	0.018 U	--	--	0.0078 U
Endosulfan-I	200	mg/kg	--	0.0073 U	0.018 U	0.019 U	0.018 U	--	--	0.008 U
Endosulfan-II	200	mg/kg	--	0.0068 U	0.017 U	0.018 U	0.017 U	--	--	0.0075 U
Endrin	89	mg/kg	--	0.0075 U	0.019 U	0.019 U	0.019 U	--	--	0.0083 U
Endrin aldehyde	NE	mg/kg	--	0.0097 U	0.4	0.025 U	0.024 U	--	--	0.011 U
Endrin ketone	NE	mg/kg	--	0.0093 U	0.023 U	0.024 U	0.023 U	--	--	0.024 J+
gamma-BHC (Lindane)	NE	mg/kg	--	0.007 U	0.017 U	0.018 U	0.017 U	--	--	0.0077 U
Heptachlor	15	mg/kg	--	0.0082 U	0.02 U	0.021 U	0.02 U	--	--	0.009 U
Heptachlor epoxide	NE	mg/kg	--	0.0098 U	0.024 U	0.025 U	0.024 U	--	--	0.011 U
Lindane	9.2	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	--	0.0077 U	0.019 U	0.02 U	0.019 U	--	--	0.03 R
Toxaphene	NE	mg/kg	--	0.22 U	0.55 U	0.57 U	0.55 U	--	--	0.24 U
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	1	mg/kg	--	0.04 U	0.046 U	0.051 U	0.048 U	--	--	0.054 U
Aroclor 1221	1	mg/kg	--	0.04 U	0.046 U	0.051 U	0.048 U	--	--	0.054 U
Aroclor 1232	1	mg/kg	--	0.04 U	0.046 U	0.051 U	0.048 U	--	--	0.054 U
Aroclor 1242	1	mg/kg	--	0.04 U	0.046 U	0.051 U	0.048 U	--	--	0.054 U
Aroclor 1248	1	mg/kg	--	0.04 U	0.046 U	0.051 U	0.048 U	--	--	0.054 U
Aroclor 1254	1	mg/kg	--	0.097 U	0.42	0.35	0.96	--	--	0.27 J
Aroclor 1260	1	mg/kg	--	0.097 U	0.11 U	0.12 U	0.12 U	--	--	0.13 U
Aroclor 1268	1	mg/kg	--	--	--	--	--	--	--	--
Aroclor-1262	1	mg/kg	--	--	--	--	--	--	--	--
Total PCBs	1	mg/kg	--	ND	0.42	0.35	0.96	--	--	0.27 J

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-47	SS-47	SS-48	SS-48	SS-49	SS-50	SS-51	SS-51
	Commercial Use	Units	0-2" 3/23/2021	2-12" 3/23/2021	0-2" 3/23/2021	2-12" 3/23/2021	2-12" 3/23/2021	0-2" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021
Inorganics										
Aluminum	NE	mg/kg	--	7690 J+	7630 J+	9670 J+	9700 J+	--	--	12300 J+
Antimony	NE	mg/kg	--	0.47 U	0.87 J	0.46 U	0.45 U	--	--	0.51 U
Arsenic	16	mg/kg	--	6.2 J+	3.9 J+	5.7 J+	7.7 J+	--	--	8.5 J+
Barium	400	mg/kg	--	89.5 J-	158 J-	206 J-	155 J-	--	--	172 J-
Beryllium	590	mg/kg	--	0.32	0.28	0.36	0.33	--	--	0.42
Cadmium	9.3	mg/kg	--	1	2.7	2.3	1.4	--	--	0.62
Calcium	NE	mg/kg	--	34600 J+	66500 J+	52100 J+	32200 J+	--	--	4770 J+
Chromium	400	mg/kg	--	18.3 J	35.1 J	38.6 J	24.3 J	--	--	54.1 J
Cobalt	NE	mg/kg	--	3.7 J+	4.2 J+	4.5 J+	5.6 J+	--	--	7 J+
Copper	270	mg/kg	--	25.7 J-	34.1 J-	37.6 J-	29.3 J-	--	--	66.1 J-
Iron	NE	mg/kg	--	14700 J	12300 J	17900 J	14200 J	--	--	24500 J
Lead	1,000	mg/kg	--	48.7 J+	78.1 J+	127 J+	61.6 J+	--	--	148 J+
Magnesium	NE	mg/kg	--	5920 J-	21800 J-	7450 J-	6080 J-	--	--	4610 J-
Manganese	10,000	mg/kg	--	277 J+	194 J+	270 J+	290 J+	--	--	262 J+
Mercury	2.8	mg/kg	--	0.5	0.63	0.71	0.71	--	--	8.1
Nickel	310	mg/kg	--	13.8 J	17.8 J	15.5 J	16.6 J	--	--	32.8 J
Potassium	NE	mg/kg	--	1150 J	1230 J	1240 J	1470 J	--	--	1630 J
Selenium	1,500	mg/kg	--	0.47 U	0.46 U	0.46 U	0.45 U	--	--	0.91 J
Silver	1,500	mg/kg	--	0.24 U	0.23 U	0.23 U	0.22 U	--	--	0.29 J
Sodium	NE	mg/kg	--	577	472	853	612	--	--	197
Thallium	NE	mg/kg	--	0.35 U	0.35 U	0.35 U	0.34 U	--	--	0.38 U
Vanadium	NE	mg/kg	--	22 J	26 J	28 J	28.6 J	--	--	36.8 J
Zinc	10,000	mg/kg	--	163 J-	440 J-	536 J-	238 J-	--	--	159 J-
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
-/+ - Reported value may be biased low/high.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
R - Unreliable result; data is rejected or unusable
N - Tentative identification. Analyze is considered present.
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties



**TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-52	SS-53	SS-53	SS-54	SS-55	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A
	Commercial Use	Units	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	8-9' 6/5/2020
<i>Volatile Organic Compounds (VOCs)</i>										
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	0.017 U	--	0.028 U	0.016 U	--	7.6 U	3.3 U	--
1,1,2,2-Tetrachloroethane	NE	mg/kg	0.0098 U	--	0.016 U	0.0095 U	--	7.6 U	3.3 U	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	0.03 U	--	0.051 U	0.029 U	--	7.6 U	3.3 U	--
1,1,2-Trichloroethane	NE	mg/kg	0.013 U	--	0.021 U	0.012 U	--	7.6 U	3.3 U	--
1,1-Dichloroethane	240	mg/kg	0.019 U	--	0.031 U	0.018 U	--	7.6 U	3.3 U	--
1,1-Dichloroethene	500	mg/kg	0.021 U	--	0.035 U	0.02 U	--	7.6 U	3.3 U	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	0.023 U	--	0.038 U	0.022 U	--	7.6 U	3.3 U	--
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	0.03 U	--	0.051 U	0.029 U	--	7.6 U	3.3 U	--
1,2-Dibromoethane	NE	mg/kg	0.011 U	--	0.018 U	0.01 U	--	--	--	--
1,2-Dichlorobenzene	500	mg/kg	0.015 U	--	0.026 U	0.015 U	--	7.6 U	3.3 U	--
1,2-Dichloroethane	30	mg/kg	0.025 U	--	0.042 U	0.024 U	--	7.6 U	3.3 U	--
1,2-Dichloropropane	NE	mg/kg	0.0098 U	--	0.016 U	0.0095 U	--	7.6 U	3.3 U	--
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	0.016 U	--	0.027 U	0.016 U	--	7.6 U	3.3 U	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	0.0084 U	--	0.014 U	0.0082 U	--	7.6 U	3.3 U	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	500	mg/kg	0.18 U	--	0.3 U	0.17 U	--	38 U	17 U	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
2-Hexanone	NE	mg/kg	0.12 U	--	0.21 U	0.12 U	--	38 U	17 U	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	0.019 U	--	0.096 J	0.019 U	--	38 U	17 U	--
Acetone	500	mg/kg	0.25 U	--	0.42 U	0.24 U	--	38 U	17 U	--
Acrolein	NE	mg/kg	--	--	--	--	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--	--	--	--	--
Benzene	44	mg/kg	0.011 U	--	0.019 U	0.011 U	--	7.6 U	3.3 U	--
Bromobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--	--	--	--	--
Bromodichloromethane	NE	mg/kg	0.012 U	--	0.02 U	0.012 U	--	--	--	--
Bromoform	NE	mg/kg	0.03 U	--	0.051 U	0.029 U	--	7.6 U	3.3 U	--
Bromomethane	NE	mg/kg	0.013 U	--	0.022 U	0.013 U	--	7.6 U	3.3 U	--
Carbon disulfide	NE	mg/kg	0.027 U	--	0.046 U	0.027 U	--	7.6 U	3.3 U	--
Carbon tetrachloride	22	mg/kg	0.015 U	--	0.026 U	0.015 U	--	7.6 U	3.3 U	--
Chlorobenzene	500	mg/kg	0.008 U	--	0.013 U	0.0078 U	--	7.6 U	3.3 U	--
Chlorobromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	mg/kg	--	--	--	--	--	7.6 U	3.3 U	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-52	SS-53	SS-53	SS-54	SS-55	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A
	Commercial Use	Units	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	8-9' 6/5/2020
Chloroethane	NE	mg/kg	0.013 U	--	0.021 U	0.012 U	--	7.6 U	3.3 U	--
Chloroform	350	mg/kg	0.041 U	--	0.07 U	0.04 U	--	7.6 U	3.3 U	--
Chloromethane	NE	mg/kg	0.014 U	--	0.024 U	0.014 U	--	7.6 U	3.3 U	--
cis-1,2-Dichloroethene	500	mg/kg	0.017 U	--	0.028 U	0.016 U	--	7.6 U	3.3 U	0.91 U
cis-1,3-Dichloropropene	NE	mg/kg	0.014 U	--	0.024 U	0.014 U	--	7.6 U	3.3 U	--
Cyclohexane	NE	mg/kg	0.013 U	--	0.023 U	0.016 J	--	7.6 U	3.3 U	--
Dibromochloromethane	NE	mg/kg	0.029 U	--	0.049 U	0.028 U	--	7.6 U	3.3 U	--
Dibromomethane	NE	mg/kg	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	0.026 U	--	0.044 U	0.026 U	--	7.6 U	3.3 U	--
Ethyl ether	NE	mg/kg	--	--	--	--	--	--	--	--
Ethylbenzene	390	mg/kg	0.018 U	--	0.03 U	0.017 U	--	7.6 U	3.3 U	--
Ethylene Dibromide	NE	mg/kg	--	--	--	--	--	7.6 U	3.3 U	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	mg/kg	0.009 U	--	0.015 U	0.0088 U	--	7.6 U	3.3 U	--
Methyl Acetate	NE	mg/kg	0.029 U	--	0.4 J	0.27 J	--	38 U	17 U	--
Methyl cyclohexane	NE	mg/kg	0.028 J	--	0.047 U	0.057 J	--	7.6 U	3.3 U	--
Methyl tert butyl ether	500	mg/kg	0.023 U	--	0.038 U	0.022 U	--	7.6 U	3.3 U	--
Methylene chloride	500	mg/kg	0.012 U	--	0.02 U	0.012 U	--	7.6 U	3.3 U	--
Naphthalene	500	mg/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Styrene	NE	mg/kg	0.015 U	--	0.024 U	0.014 U	--	7.6 U	3.3 U	--
tert-Butylbenzene	500	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	150	mg/kg	1.3	--	0.03 J	0.076	--	520	220	230
Toluene	500	mg/kg	0.016 U	--	0.027 U	0.016 U	--	7.6 U	3.3 U	--
trans-1,2-Dichloroethene	500	mg/kg	0.014 U	--	0.024 U	0.014 U	--	7.6 U	3.3 U	--
trans-1,3-Dichloropropene	NE	mg/kg	0.0059 U	--	0.01 U	0.0058 U	--	7.6 U	3.3 U	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	200	mg/kg	0.017 U	--	0.028 U	0.016 U	--	7.6 U	3.3 U	0.92 U
Trichlorofluoromethane	NE	mg/kg	0.028 U	--	0.49	0.028 U	--	7.6 U	3.3 U	--
Vinyl acetate	NE	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	13	mg/kg	0.02 U	--	0.034 U	0.02 U	--	7.6 U	3.3 U	--
Xylene (total)	500	mg/kg	0.033 U	--	0.056 U	0.033 U	--	15 U	6.7 U	--

**TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Commercial Use		SS-52	SS-53	SS-53	SS-54	SS-55	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A
	Units		2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	8-9' 6/5/2020
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	500	mg/kg	0.3 U	0.19 J	0.84 J	1.6 J	1.4 U	--	--	--
Acenaphthylene	500	mg/kg	0.26 U	0.32 J	1.9 J	0.27 U	1.3 U	--	--	--
Anthracene	500	mg/kg	0.5 U	1 J	4.7	3	2.4 U	--	--	--
Benz(a)anthracene	5.6	mg/kg	1.6 J	2.4 J+	13	6.3	2.6 J	--	--	--
Benzo(a)pyrene	1	mg/kg	1.6 J	1.7 J+	8.7	5.3	2.4 J	--	--	--
Benzo(b)fluoranthene	5.6	mg/kg	1.8 J	2.2	12	6.7	2.6 J	--	--	--
Benzo(g,h,i)perylene	500	mg/kg	1.1 J	1.1	3.8	2.2	1.7 J	--	--	--
Benzo(k)fluoranthene	56	mg/kg	0.26 U	1.3	6.1	2.9	1.3 U	--	--	--
Chrysene	56	mg/kg	1.6 J	1.7	9.8	5.3	2.2 U	--	--	--
Dibenz(a,h)anthracene	0.56	mg/kg	0.36 U	0.38 J	1.8 J	0.86 J	1.7 U	--	--	--
Fluoranthene	500	mg/kg	3.7	3.1 J+	16	12	3.9 J	--	--	--
Fluorene	500	mg/kg	0.24 U	0.45 J	3.8	1.2 J	1.1 U	--	--	--
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	1 J	1.2	5	2.4	1.4 J	--	--	--
Naphthalene	500	mg/kg	0.26 U	0.14 U	1.4 J	0.3 J	1.3 U	--	--	--
Phenanthrene	500	mg/kg	1.9 J	2.5 J	13	9.6	1.4 U	--	--	--
Pyrene	500	mg/kg	2.4	2.2	11	8.8	3.1 J	--	--	--
2-Methylnaphthalene	NE	mg/kg	0.41 U	0.21 U	2.4	0.41 U	--	--	--	--
Other SVOCs										
1,1'-Biphenyl	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	0.55 U	0.29 U	0.64 U	0.55 U	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	0.41 U	0.21 U	0.47 U	0.41 U	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	0.22 U	0.11 U	0.25 U	0.22 U	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	0.49 U	0.26 U	0.57 U	0.49 U	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	9.4 U	4.9 U	11 U	9.5 U	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	0.42 U	0.22 U	0.49 U	0.42 U	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	0.24 U	0.13 U	0.28 U	0.24 U	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	0.33 U	0.18 U	0.39 U	0.34 U	--	--	--	--
2-Chlorophenol	NE	mg/kg	0.37 U	0.2 U	0.43 U	0.37 U	--	--	--	--
2-Methylphenol	500	mg/kg	0.24 U	0.13 U	0.28 U	0.24 U	--	--	--	--
2-Nitroaniline	NE	mg/kg	0.3 U	0.16 U	0.35 U	0.3 U	--	--	--	--
2-Nitrophenol	NE	mg/kg	0.57 U	0.3 U	0.67 U	0.58 U	--	--	--	--
3&4-Methylphenol	500	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	2.4 U	1.3 U	2.8 U	2.4 U	--	--	--	--
3-Nitroaniline	NE	mg/kg	0.56 U	0.3 U	0.65 U	0.57 U	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-52	SS-53	SS-53	SS-54	SS-55	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A
	Commercial Use	Units	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	8-9' 6/5/2020
4,6-Dinitro-o-cresol	NE	mg/kg	2 U	1.1 U	2.4 U	2.1 U	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	0.29 U	0.15 U	0.33 U	0.29 U	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	0.5 U	0.26 U	0.58 U	0.51 U	--	--	--	--
4-Chloroaniline	NE	mg/kg	0.5 U	0.26 U	0.58 U	0.51 U	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	0.25 U	0.13 U	0.29 U	0.25 U	--	--	--	--
4-Methylphenol	500	mg/kg	0.24 U	0.13 U	0.28 U	0.24 U	--	--	--	--
4-Nitroaniline	NE	mg/kg	1.1 U	0.56 U	1.2 U	1.1 U	--	--	--	--
4-Nitrophenol	NE	mg/kg	1.4 U	0.75 U	1.7 U	1.4 U	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--	--	--	--	--
Atrazine	NE	mg/kg	0.71 U	0.37 U	0.82 U	0.71 U	--	--	--	--
Benzaldehyde	NE	mg/kg	1.6 U	0.85 U	1.9 U	1.6 U	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--	--	--	--	--
Biphenyl	NE	mg/kg	0.33 U	0.18 U	0.39 U	0.34 U	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	0.3 U	0.16 U	0.45 J	0.3 U	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	0.43 U	0.23 U	0.5 U	0.43 U	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	0.26 U	0.14 U	0.31 U	0.27 U	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	0.41 U	0.21 U	0.47 U	0.41 U	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	0.69 U	0.36 U	0.8 U	0.7 U	--	--	--	--
Caprolactam	NE	mg/kg	0.61 U	0.32 U	0.71 U	0.62 U	--	--	--	--
Carbazole	NE	mg/kg	0.31 J	0.34 J	2.1 J	1.4 J	--	--	--	--
Dibenzofuran	350	mg/kg	0.24 U	0.18 J	1.6 J	0.67 J	--	--	--	--
Diethyl phthalate	NE	mg/kg	0.26 U	0.14 U	0.31 U	0.27 U	--	--	--	--
Dimethyl phthalate	NE	mg/kg	0.24 U	0.13 U	0.28 U	0.24 U	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	0.35 U	0.18 U	0.4 U	0.35 U	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	0.24 U	0.13 U	0.28 U	0.24 U	--	--	--	--
Hexachlorobenzene	6	mg/kg	0.28 U	0.14 U	0.32 U	0.28 U	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	0.3 U	0.16 U	0.35 U	0.3 U	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	0.28 U	0.14 U	0.32 U	0.28 U	--	--	--	--
Hexachloroethane	NE	mg/kg	0.26 U	0.14 U	0.31 U	0.27 U	--	--	--	--
Isophorone	NE	mg/kg	0.43 U	0.23 U	0.5 U	0.43 U	--	--	--	--
Nitrobenzene	NE	mg/kg	0.23 U	0.12 U	0.26 U	0.23 U	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	0.35 U	0.18 U	0.4 U	0.35 U	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	1.7 U	0.87 U	1.9 U	1.7 U	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--	--	--	--	--
Pentachlorophenol	6.7	mg/kg	2 U	1.1 U	2.4 U	2.1 U	--	--	--	--
Phenol	500	mg/kg	0.31 U	0.16 U	0.36 U	0.31 U	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-52	SS-53	SS-53	SS-54	SS-55	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A
	Commercial Use	Units	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	8-9' 6/5/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>										
4,4'-DDD	92	mg/kg	0.019 U	0.0041 UF1	0.0091 U	0.062 J-	--	--	--	--
4,4'-DDE	62	mg/kg	0.021 U	0.0044 UF2	0.051 J-	0.036 J-	--	--	--	--
4-4'-DDT	47	mg/kg	0.027 J-	0.0049 UF1	0.011 U	0.75 J+	--	--	--	--
Aldrin	0.68	mg/kg	0.024 U	0.0051 UF2	0.011 U	0.0098 U	--	--	--	--
alpha-BHC	3.4	mg/kg	0.018 U	0.0038 UF2	0.0084 U	0.059 J+	--	--	--	--
beta-BHC	3	mg/kg	0.018 U	0.0038 UF1F2	0.0084 U	0.035 J	--	--	--	--
Chlordane, alpha	24	mg/kg	0.05 U	0.01 UF1	0.023 U	0.02 U	--	--	--	--
Chlordane, beta	NE	mg/kg	0.032 U	0.0066 U	0.015 U	0.013 U	--	--	--	--
Chlordane	24	mg/kg	--	--	--	--	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
delta-BHC	500	mg/kg	0.019 U	0.0039 UF2	0.0087 U	0.015 J+	--	--	--	--
Dieldrin	1.4	mg/kg	0.024 U	0.005 UF2	0.011 U	0.0096 U	--	--	--	--
Endosulfan sulfate	200	mg/kg	0.019 U	0.0039 UF1	0.0087 U	0.058 J-	--	--	--	--
Endosulfan-I	200	mg/kg	0.019 U	0.004 U	0.009 U	0.0077 U	--	--	--	--
Endosulfan-II	200	mg/kg	0.018 U	0.0038 U	0.0084 U	0.28 J+	--	--	--	--
Endrin	89	mg/kg	0.02 U	0.0041 UF1F2	0.0093 U	0.27 R	--	--	--	--
Endrin aldehyde	NE	mg/kg	0.025 U	0.0053 UF1	0.012 U	0.2 J-	--	--	--	--
Endrin ketone	NE	mg/kg	0.024 U	0.0051 UF1	0.011 U	0.19 R	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	0.018 U	0.0038 UF2	0.0086 U	0.021 J-	--	--	--	--
Heptachlor	15	mg/kg	0.022 U	0.0045 UF2	0.01 U	0.0086 U	--	--	--	--
Heptachlor epoxide	NE	mg/kg	0.026 U	0.0054 UF2	0.012 U	0.01 U	--	--	--	--
Lindane	9.2	mg/kg	--	--	--	--	--	--	--	--
Methoxychlor	NE	mg/kg	0.02 U	0.014 R	0.092 JN	0.85	--	--	--	--
Toxaphene	NE	mg/kg	0.58 U	0.12 U	0.27 U	8.7	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--	--	--	--	--
Aroclor 1016	1	mg/kg	0.057 U	0.046 U	0.062 U	0.047 U	--	--	--	--
Aroclor 1221	1	mg/kg	0.057 U	0.046 U	0.062 U	0.047 U	--	--	--	--
Aroclor 1232	1	mg/kg	0.057 U	0.046 U	0.062 U	0.047 U	--	--	--	--
Aroclor 1242	1	mg/kg	0.057 U	0.046 U	0.062 U	0.047 U	--	--	--	--
Aroclor 1248	1	mg/kg	0.057 U	0.046 U	0.062 U	0.047 U	--	--	--	--
Aroclor 1254	1	mg/kg	0.16 J-	0.14 J	0.75	0.11 U	--	--	--	--
Aroclor 1260	1	mg/kg	0.14 U	0.11 U	0.15 U	0.11 U	--	--	--	--
Aroclor 1268	1	mg/kg	--	--	--	--	--	--	--	--
Aroclor-1262	1	mg/kg	--	--	--	--	--	--	--	--
Total PCBs	1	mg/kg	0.16 J	0.14 J	0.75	ND	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		SS-52	SS-53	SS-53	SS-54	SS-55	BC-FE-SB-02	BC-FE-SB-02	BC-SB-FE-2A
	Commercial Use	Units	2-12" 3/24/2021	0-2" 3/24/2021	2-12" 3/24/2021	2-12" 3/24/2021	0-2" 3/24/2021	6 - 6.7' 2/20/2020	8 - 9' 2/20/2020	8-9' 6/5/2020
Inorganics										
Aluminum	NE	mg/kg	11100 J+	6810 J+	3540 J+	10900 J+	--	--	--	--
Antimony	NE	mg/kg	0.5 U	0.51 U	0.58 U	0.5 U	--	--	--	--
Arsenic	16	mg/kg	4.5	4.7	16.6	4.6	--	--	--	--
Barium	400	mg/kg	84.2	231	549	166	--	--	--	--
Beryllium	590	mg/kg	0.37	0.27	0.19 J	0.36	--	--	--	--
Cadmium	9.3	mg/kg	0.75	0.48	0.22 J	0.3	--	--	--	--
Calcium	NE	mg/kg	23800	5860	2740	5550	--	--	--	--
Chromium	400	mg/kg	28.6	16.5	23	28.2	--	--	--	--
Cobalt	NE	mg/kg	6.3	5	3.9	6.6	--	--	--	--
Copper	270	mg/kg	24.9	27.1	32.4	37.8	--	--	--	--
Iron	NE	mg/kg	17300	14200	31900	16700	--	--	--	--
Lead	1,000	mg/kg	143	71.8	139	41.9	--	--	--	--
Magnesium	NE	mg/kg	11900 J+	2460 J+	1030 J+	5580 J+	--	--	--	--
Manganese	10,000	mg/kg	280	248	173	279	--	--	--	--
Mercury	2.8	mg/kg	0.35	0.25	0.3	0.28	--	--	--	--
Nickel	310	mg/kg	21.9	20	17	34.7	--	--	--	--
Potassium	NE	mg/kg	2030 J+	1360 J+	3190 J+	2170 J+	--	--	--	--
Selenium	1,500	mg/kg	0.5 U	0.51 U	1.1 J	0.5 U	--	--	--	--
Silver	1,500	mg/kg	0.25 U	0.26 J	0.29 U	0.25 J	--	--	--	--
Sodium	NE	mg/kg	399	126 J	226	152 J	--	--	--	--
Thallium	NE	mg/kg	0.38 U	0.38 U	0.44 U	0.38 U	--	--	--	--
Vanadium	NE	mg/kg	32.3	27.7	37.9	30.7	--	--	--	--
Zinc	10,000	mg/kg	123	72.7 F2	30.4	120	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
-/+ - Reported value may be biased low/high.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
R - Unreliable result; data is rejected or unusable
N - Tentative identification. Analyte is considered present.
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05 (DUP)	BC-SB-4	BC-SB-6	BC-SB-8
	Commercial Use	Units	12 - 13' 2/20/2020	6-7' 6/5/2020	6-7' 6/5/2020	4-5' 6/5/2020
<i>Volatile Organic Compounds (VOCs)</i>						
1,1,1,2-Tetrachloroethane	NE	mg/kg	--	--	--	--
1,1,1-Trichloroethane	500	mg/kg	3.2 U	--	--	--
1,1,2-Tetrachloroethane	NE	mg/kg	3.2 U	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	mg/kg	3.2 U	--	--	--
1,1,2-Trichloroethane	NE	mg/kg	3.2 U	--	--	--
1,1-Dichloroethane	240	mg/kg	3.2 U	--	--	--
1,1-Dichloroethene	500	mg/kg	3.2 U	--	--	--
1,1-Dichloropropene	NE	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	NE	mg/kg	--	--	--	--
1,2,3-Trichloropropane	NE	mg/kg	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	3.2 U	--	--	--
1,2,4-Trimethylbenzene	190	mg/kg	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	mg/kg	--	--	--	--
1,2-Dibromo-3-chloropropane	NE	mg/kg	3.2 U	--	--	--
1,2-Dibromoethane	NE	mg/kg	--	--	--	--
1,2-Dichlorobenzene	500	mg/kg	3.2 U	--	--	--
1,2-Dichloroethane	30	mg/kg	3.2 U	--	--	--
1,2-Dichloropropane	NE	mg/kg	3.2 U	--	--	--
1,3,5-Trimethylbenzene	190	mg/kg	--	--	--	--
1,3-Dichlorobenzene	280	mg/kg	3.2 U	--	--	--
1,3-Dichloropropane	NE	mg/kg	--	--	--	--
1,3-Dichloropropene, Total	NE	mg/kg	--	--	--	--
1,4-Dichlorobenzene	130	mg/kg	3.2 U	--	--	--
1,4-Diethylbenzene	NE	mg/kg	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--
2,2-Dichloropropane	NE	mg/kg	--	--	--	--
2-Butanone (MEK)	500	mg/kg	16 U	--	--	--
2-Chloroethyl vinyl ether	NE	mg/kg	--	--	--	--
2-Hexanone	NE	mg/kg	16 U	--	--	--
4-Ethyltoluene	NE	mg/kg	--	--	--	--
2-Methyl-2-propanol	NE	mg/kg	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	mg/kg	16 U	--	--	--
Acetone	500	mg/kg	16 U	--	--	--
Acrolein	NE	mg/kg	--	--	--	--
Acrylonitrile	NE	mg/kg	--	--	--	--
Benzene	44	mg/kg	3.2 U	--	--	--
Bromobenzene	NE	mg/kg	--	--	--	--
Bromochloromethane	NE	mg/kg	--	--	--	--
Bromodichloromethane	NE	mg/kg	--	--	--	--
Bromoform	NE	mg/kg	3.2 U	--	--	--
Bromomethane	NE	mg/kg	3.2 U	--	--	--
Carbon disulfide	NE	mg/kg	3.2 U	--	--	--
Carbon tetrachloride	22	mg/kg	3.2 U	--	--	--
Chlorobenzene	500	mg/kg	3.2 U	--	--	--
Chlorobromomethane	NE	mg/kg	--	--	--	--
Chlorodibromomethane	NE	mg/kg	3.2 U	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05 (DUP)	BC-SB-4	BC-SB-6	BC-SB-8
	Commercial Use	Units	12 - 13' 2/20/2020	6-7' 6/5/2020	6-7' 6/5/2020	4-5' 6/5/2020
Chloroethane	NE	mg/kg	3.2 U	--	--	--
Chlorofom	350	mg/kg	3.2 U	--	--	--
Chloromethane	NE	mg/kg	3.2 U	--	--	--
cis-1,2-Dichloroethene	500	mg/kg	3.2 U	1.1 U	1.3 U	1.2 U
cis-1,3-Dichloropropene	NE	mg/kg	3.2 U	--	--	--
Cyclohexane	NE	mg/kg	3.2 U	--	--	--
Dibromochloromethane	NE	mg/kg	3.2 U	--	--	--
Dibromomethane	NE	mg/kg	--	--	--	--
Dichlorodifluoromethane	NE	mg/kg	3.2 U	--	--	--
Ethyl ether	NE	mg/kg	--	--	--	--
Ethylbenzene	390	mg/kg	3.2 U	--	--	--
Ethylene Dibromide	NE	mg/kg	3.2 U	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--
Isopropylbenzene	NE	mg/kg	3.2 U	--	--	--
Methyl Acetate	NE	mg/kg	16 U	--	--	--
Methyl cyclohexane	NE	mg/kg	3.2 U	--	--	--
Methyl tert butyl ether	500	mg/kg	3.2 U	--	--	--
Methylene chloride	500	mg/kg	3.2 U	--	--	--
Naphthalene	500	mg/kg	--	--	--	--
n-Butylbenzene	500	mg/kg	--	--	--	--
n-Propylbenzene	500	mg/kg	--	--	--	--
o-Chlorotoluene	NE	mg/kg	--	--	--	--
o-Xylene	500	mg/kg	--	--	--	--
p/m-Xylene	500	mg/kg	--	--	--	--
p-Chlorotoluene	NE	mg/kg	--	--	--	--
p-Isopropyltoluene	NE	mg/kg	--	--	--	--
sec-Butylbenzene	500	mg/kg	--	--	--	--
Styrene	NE	mg/kg	3.2 U	--	--	--
tert-Butylbenzene	500	mg/kg	--	--	--	--
Tetrachloroethene	150	mg/kg	210 J	200	380	200 J
Toluene	500	mg/kg	3.2 U	--	--	--
trans-1,2-Dichloroethene	500	mg/kg	3.2 U	--	--	--
trans-1,3-Dichloropropene	NE	mg/kg	3.2 U	--	--	--
trans-1,4-Dichloro-2-butene	NE	mg/kg	--	--	--	--
Trichloroethene	200	mg/kg	3.2 U	1.2 U	3.1 J	1.2 U
Trichlorofluoromethane	NE	mg/kg	3.2 U	--	--	--
Vinyl acetate	NE	mg/kg	--	--	--	--
Vinyl chloride	13	mg/kg	3.2 U	--	--	--
Xylene (total)	500	mg/kg	6.3 U	--	--	--

**TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Commercial Use		BC-FE-SB-05 (DUP)	BC-SB-4	BC-SB-6	BC-SB-8
	Units		12 - 13' 2/20/2020	6-7' 6/5/2020	6-7' 6/5/2020	4-5' 6/5/2020
<i>Semi-volatile Organic Compounds (SVOCs)</i>						
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	500	mg/kg	--	--	--	--
Acenaphthylene	500	mg/kg	--	--	--	--
Anthracene	500	mg/kg	--	--	--	--
Benz(a)anthracene	5.6	mg/kg	--	--	--	--
Benzo(a)pyrene	1	mg/kg	--	--	--	--
Benzo(b)fluoranthene	5.6	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	500	mg/kg	--	--	--	--
Benzo(k)fluoranthene	56	mg/kg	--	--	--	--
Chrysene	56	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	0.56	mg/kg	--	--	--	--
Fluoranthene	500	mg/kg	--	--	--	--
Fluorene	500	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	5.6	mg/kg	--	--	--	--
Naphthalene	500	mg/kg	--	--	--	--
Phenanthrene	500	mg/kg	--	--	--	--
Pyrene	500	mg/kg	--	--	--	--
2-Methylnaphthalene	NE	mg/kg	--	--	--	--
Other SVOCs						
1,1'-Biphenyl	NE	mg/kg	--	--	--	--
1,2,4-Trichlorobenzene	NE	mg/kg	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	mg/kg	--	--	--	--
1,2-Dichlorobenzene	NE	mg/kg	--	--	--	--
1,2-Diphenylhydrazine	NE	mg/kg	--	--	--	--
1,3-Dichlorobenzene	NE	mg/kg	--	--	--	--
1,4-Dichlorobenzene	NE	mg/kg	--	--	--	--
1,4-Dioxane	130	mg/kg	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	mg/kg	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	mg/kg	--	--	--	--
2,4,5-Trichlorophenol	NE	mg/kg	--	--	--	--
2,4,6-Trichlorophenol	NE	mg/kg	--	--	--	--
2,4-Dichlorophenol	NE	mg/kg	--	--	--	--
2,4-Dimethylphenol	NE	mg/kg	--	--	--	--
2,4-Dinitrophenol	NE	mg/kg	--	--	--	--
2,4-Dinitrotoluene	NE	mg/kg	--	--	--	--
2,6-Dinitrotoluene	NE	mg/kg	--	--	--	--
2-Chloronaphthalene	NE	mg/kg	--	--	--	--
2-Chlorophenol	NE	mg/kg	--	--	--	--
2-Methylphenol	500	mg/kg	--	--	--	--
2-Nitroaniline	NE	mg/kg	--	--	--	--
2-Nitrophenol	NE	mg/kg	--	--	--	--
3&4-Methylphenol	500	mg/kg	--	--	--	--
3,3'-Dichlorobenzidine	NE	mg/kg	--	--	--	--
3-Nitroaniline	NE	mg/kg	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05 (DUP)	BC-SB-4	BC-SB-6	BC-SB-8
	Commercial Use	Units	12 - 13' 2/20/2020	6-7' 6/5/2020	6-7' 6/5/2020	4-5' 6/5/2020
4,6-Dinitro-o-cresol	NE	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	NE	mg/kg	--	--	--	--
4-Chloro-3-methyl phenol	NE	mg/kg	--	--	--	--
4-Chloroaniline	NE	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	NE	mg/kg	--	--	--	--
4-Methylphenol	500	mg/kg	--	--	--	--
4-Nitroaniline	NE	mg/kg	--	--	--	--
4-Nitrophenol	NE	mg/kg	--	--	--	--
Acetophenone	NE	mg/kg	--	--	--	--
Atrazine	NE	mg/kg	--	--	--	--
Benzaldehyde	NE	mg/kg	--	--	--	--
Benzidine	NE	mg/kg	--	--	--	--
Biphenyl	NE	mg/kg	--	--	--	--
bis(2-Chloroethoxy)methane	NE	mg/kg	--	--	--	--
bis(2-Chloroethyl)ether	NE	mg/kg	--	--	--	--
bis(2-Chloroisopropyl)ether	NE	mg/kg	--	--	--	--
bis(2-Ethylhexyl)phthalate	NE	mg/kg	--	--	--	--
Butyl benzyl phthalate	NE	mg/kg	--	--	--	--
Caprolactam	NE	mg/kg	--	--	--	--
Carbazole	NE	mg/kg	--	--	--	--
Dibenzofuran	350	mg/kg	--	--	--	--
Diethyl phthalate	NE	mg/kg	--	--	--	--
Dimethyl phthalate	NE	mg/kg	--	--	--	--
Di-n-butyl phthalate	NE	mg/kg	--	--	--	--
Di-n-octyl phthalate	NE	mg/kg	--	--	--	--
Hexachlorobenzene	6	mg/kg	--	--	--	--
Hexachlorobutadiene	NE	mg/kg	--	--	--	--
Hexachlorocyclopentadiene	NE	mg/kg	--	--	--	--
Hexachloroethane	NE	mg/kg	--	--	--	--
Isophorone	NE	mg/kg	--	--	--	--
Nitrobenzene	NE	mg/kg	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	mg/kg	--	--	--	--
n-Nitrosodimethylamine	NE	mg/kg	--	--	--	--
N-Nitroso-di-n-propylamine	NE	mg/kg	--	--	--	--
N-Nitrosodiphenylamine	NE	mg/kg	--	--	--	--
P-Chloro-M-Cresol	NE	mg/kg	--	--	--	--
Pentachlorophenol	6.7	mg/kg	--	--	--	--
Phenol	500	mg/kg	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05 (DUP)	BC-SB-4	BC-SB-6	BC-SB-8
	Commercial Use	Units	12 - 13' 2/20/2020	6-7' 6/5/2020	6-7' 6/5/2020	4-5' 6/5/2020
<i>Pesticides/Polychlorinated Biphenyls (PCBs)</i>						
4,4'-DDD	92	mg/kg	--	--	--	--
4,4'-DDE	62	mg/kg	--	--	--	--
4,4'-DDT	47	mg/kg	--	--	--	--
Aldrin	0.68	mg/kg	--	--	--	--
alpha-BHC	3.4	mg/kg	--	--	--	--
beta-BHC	3	mg/kg	--	--	--	--
Chlordane, alpha	24	mg/kg	--	--	--	--
Chlordane, beta	NE	mg/kg	--	--	--	--
Chlordane	24	mg/kg	--	--	--	--
cis-Chlordane	NE	mg/kg	--	--	--	--
delta-BHC	500	mg/kg	--	--	--	--
Dieldrin	1.4	mg/kg	--	--	--	--
Endosulfan sulfate	200	mg/kg	--	--	--	--
Endosulfan-I	200	mg/kg	--	--	--	--
Endosulfan-II	200	mg/kg	--	--	--	--
Endrin	89	mg/kg	--	--	--	--
Endrin aldehyde	NE	mg/kg	--	--	--	--
Endrin ketone	NE	mg/kg	--	--	--	--
gamma-BHC (Lindane)	NE	mg/kg	--	--	--	--
Heptachlor	15	mg/kg	--	--	--	--
Heptachlor epoxide	NE	mg/kg	--	--	--	--
Lindane	9.2	mg/kg	--	--	--	--
Methoxychlor	NE	mg/kg	--	--	--	--
Toxaphene	NE	mg/kg	--	--	--	--
trans-Chlordane	NE	mg/kg	--	--	--	--
Aroclor 1016	1	mg/kg	--	--	--	--
Aroclor 1221	1	mg/kg	--	--	--	--
Aroclor 1232	1	mg/kg	--	--	--	--
Aroclor 1242	1	mg/kg	--	--	--	--
Aroclor 1248	1	mg/kg	--	--	--	--
Aroclor 1254	1	mg/kg	--	--	--	--
Aroclor 1260	1	mg/kg	--	--	--	--
Aroclor 1268	1	mg/kg	--	--	--	--
Aroclor-1262	1	mg/kg	--	--	--	--
Total PCBs	1	mg/kg	--	--	--	--

TABLE 2b
REMAINING SOIL SAMPLE EXCEEDANCES - COMMERCIAL USE
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]		BC-FE-SB-05 (DUP)	BC-SB-4	BC-SB-6	BC-SB-8
	Commercial Use	Units	12 - 13' 2/20/2020	6-7' 6/5/2020	6-7' 6/5/2020	4-5' 6/5/2020
<i>Inorganics</i>						
Aluminum	NE	mg/kg	--	--	--	--
Antimony	NE	mg/kg	--	--	--	--
Arsenic	16	mg/kg	--	--	--	--
Barium	400	mg/kg	--	--	--	--
Beryllium	590	mg/kg	--	--	--	--
Cadmium	9.3	mg/kg	--	--	--	--
Calcium	NE	mg/kg	--	--	--	--
Chromium	400	mg/kg	--	--	--	--
Cobalt	NE	mg/kg	--	--	--	--
Copper	270	mg/kg	--	--	--	--
Iron	NE	mg/kg	--	--	--	--
Lead	1,000	mg/kg	--	--	--	--
Magnesium	NE	mg/kg	--	--	--	--
Manganese	10,000	mg/kg	--	--	--	--
Mercury	2.8	mg/kg	--	--	--	--
Nickel	310	mg/kg	--	--	--	--
Potassium	NE	mg/kg	--	--	--	--
Selenium	1,500	mg/kg	--	--	--	--
Silver	1,500	mg/kg	--	--	--	--
Sodium	NE	mg/kg	--	--	--	--
Thallium	NE	mg/kg	--	--	--	--
Vanadium	NE	mg/kg	--	--	--	--
Zinc	10,000	mg/kg	--	--	--	--
Cyanide	27	mg/kg	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
-/+ - Reported value may be biased low/high.
UJ - The analyte was analyzed for, but was not detected. Value shown is approximate and may be inaccurate or imprecise.
p - The percent RPD is between the primary and confirmation column/detector is >40%. The lower value has been reported.
H - Sample was prepped or analyzed beyond the specified holding time.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
R - Unreliable result; data is rejected or unusable
N - Tentative identification. Analyte is considered present.
NE - Not established.
ND - Not detected
(b) - Chromium analysis was for total chromium. To be conservative, total chromium concentrations were compared to hexavalent chromium SCOs.
Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for Commercially Zoned Properties

TABLE 3
REMAINING SEDIMENT SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	FRESHWATER SEDIMENT GUIDANCE VALUES**				SD-1	SD-1 (DUP)	SD-2	SD-3
	SGV - Class A	BSGV (HH)	BSGV (W)	Units	7/3/2019	7/3/2019	7/3/2019	7/3/2019
<i>Volatile Organic Compounds (VOCs)</i>								
1,1,1-Trichloroethane	1900	-	-	µg/kg	0.26 U	0.26 U	0.26 U	0.28 U F1
1,1,2,2-Tetrachloroethane	2800	-	-	µg/kg	0.24 U	0.24 U	0.24 U	0.26 U F1
1,1,2-Trichloro-1,2,2-trifluoroethane	-	-	-	µg/kg	0.34 U	0.34 U	0.33 U	0.36 U F1
1,1,2-Trichloroethane	1900	-	-	a µg/kg	0.2 U	0.2 U	0.2 U	0.22 U F1
1,1-Dichloroethane	-	-	-	µg/kg	0.23 U	0.23 U	0.23 U	0.25 U
1,1-Dichloroethene	520	-	-	µg/kg	0.25 U	0.25 U	0.25 U	0.27 U
1,2,3-Trichlorobenzene	230	-	250	b µg/kg	0.2 U	0.2 U	0.2 U	0.22 U F1
1,2,4-Trichlorobenzene	35000	-	250	b µg/kg	0.4 U	0.4 U	0.4 U	0.43 U F1
1,2-Dibromo-3-Chloropropane	-	-	-	µg/kg	0.52 U	0.52 U	0.51 U	0.56 U F1
1,2-Dichlorobenzene	280	-	-	µg/kg	0.16 U	0.16 U	0.16 U	0.17 U F1
1,2-Dichloroethane	-	-	-	µg/kg	0.33 U	0.33 U	0.33 U	0.36 U
1,2-Dichloropropane	-	-	-	µg/kg	0.48 U	0.47 U	0.47 U	0.51 U F1
1,3-Dichlorobenzene	1800	-	-	µg/kg	0.18 U	0.18 U	0.18 U	0.19 U F1
1,4-Dichlorobenzene	720	-	-	µg/kg	0.25 U	0.25 U	0.25 U	0.27 U F1
1,4-Dioxane	-	-	-	µg/kg	10 U	10 U	10 U	11 U
2-Butanone (MEK)	-	-	-	µg/kg	3.1 U	3 U	3 U	14
2-Hexanone	-	-	-	µg/kg	1.9 U	1.9 U	1.9 U	2.1 U
4-Methyl-2-pentanone (MIBK)	-	-	-	µg/kg	1.8 U	1.7 U	1.7 U	1.9 U
Acetone	-	-	-	µg/kg	23	6.4 U	6.3 U	63
Benzene	530	25	-	µg/kg	0.29 U	0.29 U	0.29 U	0.31 U
Bromoform	-	-	-	µg/kg	0.48 U	0.48 U	0.47 U	0.52 U
Bromomethane	-	-	-	µg/kg	0.53 U	0.53 U	0.52 U	0.57 U
Carbon disulfide	-	-	-	µg/kg	0.3 U	0.3 U	0.29 U	4 F1
Carbon tetrachloride	1070	-	-	µg/kg	0.44 U	0.43 U	0.43 U	0.47 U F1
Chlorobenzene	200	5200	-	µg/kg	0.2 U	0.2 U	0.2 U	0.21 U F1
Chlorobromomethane	-	-	-	µg/kg	0.32 U	0.32 U	0.31 U	0.34 U
Chlorodibromomethane	-	-	-	µg/kg	0.22 U	0.22 U	0.21 U	0.24 U F1
Chloroethane	-	-	-	µg/kg	0.59 U	0.59 U	0.58 U	0.63 U
Chloroform	-	-	-	µg/kg	0.36 U	0.36 U	0.35 U	0.39 U
Chloromethane	-	-	-	µg/kg	0.49 U	0.49 U	0.48 U	0.53 U

TABLE 3
REMAINING SEDIMENT SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	FRESHWATER SEDIMENT GUIDANCE VALUES**				SD-1	SD-1 (DUP)	SD-2	SD-3
	SGV - Class A	BSGV (HH)	BSGV (W)	Units	7/3/2019	7/3/2019	7/3/2019	7/3/2019
cis-1,2-Dichloroethene	-	-	-	µg/kg	0.17 U	0.17 U	0.17 U	0.41 J
cis-1,3-Dichloropropene	-	-	-	µg/kg	0.31 U	0.31 U	0.3 U	0.33 U F1
Cyclohexane	-	-	-	µg/kg	0.25 U	0.25 U	0.24 U	0.27 U F1
Dichlorobromomethane	-	-	-	µg/kg	0.29 U	0.29 U	0.28 U	0.31 U F1
Dichlorodifluoromethane	-	-	-	µg/kg	0.38 U	0.38 U	0.37 U	0.41 U F1
Ethylbenzene	430	-	-	µg/kg	0.22 U	0.22 U	0.22 U	0.24 U F1
Ethylene Dibromide	-	-	-	µg/kg	0.2 U	0.2 U	0.2 U	0.22 U F1
Isopropylbenzene	210	-	-	µg/kg	0.14 U	0.14 U	0.14 U	0.15 U F1
Methyl acetate	-	-	-	µg/kg	4.8 U	4.8 U	4.8 U	5.2 U F1
Methyl tert-butyl ether	-	-	-	µg/kg	0.14 U	0.14 U	0.14 U	0.15 U
Methylcyclohexane	-	-	-	µg/kg	0.56 U	0.56 U	0.55 U	0.61 U F1
Methylene Chloride	-	68	-	µg/kg	5.7	0.52 U	0.51 U	1.2
m-Xylene & p-Xylene	480	-	-	c µg/kg	0.2 U	0.2 U	0.19 U	0.21 U F1
o-Xylene	530	-	-	µg/kg	0.22 U	0.22 U	0.21 U	0.24 U F1
Styrene	-	-	-	µg/kg	0.31 U	0.31 U	0.31 U	0.34 U F1
Tetrachloroethene	16000	44	-	µg/kg	0.16 U	0.16 U	0.16 U	0.17 U F1
Toluene	930	56000	-	µg/kg	0.26 U	0.26 U	0.26 U	0.28 U F1
trans-1,2-Dichloroethene	1200	-	-	µg/kg	0.28 U	0.28 U	0.27 U	0.3 U F1
trans-1,3-Dichloropropene	-	-	-	µg/kg	0.3 U	0.3 U	0.29 U	0.32 U F1
Trichloroethene	1800	250	-	µg/kg	0.16 U	0.16 U	0.16 U	0.17 U F1
Trichlorofluoromethane	-	-	-	µg/kg	0.46 U	0.46 U	0.45 U	0.49 U
Vinyl chloride	-	-	-	µg/kg	0.62 U	0.61 U	0.6 U	0.66 U

TABLE 3
REMAINING SEDIMENT SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	FRESHWATER SEDIMENT GUIDANCE VALUES**				SD-1	SD-1 (DUP)	SD-2	SD-3
	SGV - Class A	BSGV (HH)	BSGV (W)	Units	7/3/2019	7/3/2019	7/3/2019	7/3/2019
<i>Semi-volatile Organic Compounds (SVOCs)</i>								
1,1'-Biphenyl	-	-	-	µg/kg	5.8 U	5.8 U	5.9 U	5.4 U
1,2,4,5-Tetrachlorobenzene	-	-	-	µg/kg	5.7 U	5.8 U	5.8 U	5.4 U
1,4-Dioxane	-	-	-	µg/kg				
2,2'-oxybis[1-chloropropane]	-	-	-	µg/kg	7.8 U	8 U	8 U	7.4 U
2,3,4,6-Tetrachlorophenol	-	-	99	µg/kg	29 U	30 U	30 U	28 U
2,4,5-Trichlorophenol	-	-	-	µg/kg	14 U	15 U	15 U	14 U
2,4,6-Trichlorophenol	-	-	-	µg/kg	22 U	22 U	22 U	21 U
2,4-Dichlorophenol	-	-	-	µg/kg	9.2 U	9.3 U	9.4 U	8.7 U
2,4-Dimethylphenol	-	3600	-	µg/kg	19 U	19 U	19 U	18 U
2,4-Dinitrophenol	-	280	-	µg/kg	210 U	220 U	220 U	200 U F1 F2
2,4-Dinitrotoluene	-	-	-	µg/kg	22 U	22 U	22 U	21 U
2,6-Dinitrotoluene	-	-	-	µg/kg	14 U	14 U	14 U	13 U
2-Chloronaphthalene	-	-	-	µg/kg	20 U	20 U	21 U	19 U
2-Chlorophenol	-	-	-	µg/kg	6.1 U	6.2 U	6.2 U	5.8 U
2-Methylnaphthalene	-	-	-	µg/kg	5.4 U	5.5 U	5.5 U	11 J F1
2-Methylphenol	-	-	-	µg/kg	7 U	7.1 U	7.2 U	6.6 U
2-Nitroaniline	-	-	-	µg/kg	16 U *	16 U *	17 U *	15 U *
2-Nitrophenol	-	-	-	µg/kg	14 U	14 U	14 U	13 U F1
3,3'-Dichlorobenzidine	-	-	-	µg/kg	66 U	66 U	67 U	62 U
3-Nitroaniline	-	-	-	µg/kg	24 U	24 U	24 U	22 U
4,6-Dinitro-2-methylphenol	-	-	-	µg/kg	70 U	71 U	72 U	67 U F1
4-Bromophenyl phenyl ether	-	-	-	µg/kg	5.6 U	5.7 U	5.7 U	5.3 U
4-Chloro-3-methylphenol	-	-	-	µg/kg	7.2 U *	7.3 U *	7.4 U *	6.8 U *
4-Chloroaniline	-	-	-	µg/kg	30 U	31 U	31 U	29 U
4-Chlorophenyl phenyl ether	-	-	-	µg/kg	6.8 U	6.9 U	7 U	6.5 U F1
4-Methylphenol	-	-	-	µg/kg	7.4 U	7.5 U	7.6 U	7 U
4-Nitroaniline	-	-	-	µg/kg	16 U	16 U	17 U	15 U
4-Nitrophenol	-	-	-	µg/kg	71 U	72 U	72 U	67 U
Acenaphthene	9820	-	-	µg/kg	47 J	32 U	54 J	30 U F1
Acenaphthylene	9040	-	-	µg/kg	51 J	30 J	50 J	4.2 U F1

TABLE 3
REMAINING SEDIMENT SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	FRESHWATER SEDIMENT GUIDANCE VALUES**				SD-1	SD-1 (DUP)	SD-2	SD-3
	SGV - Class A	BSGV (HH)	BSGV (W)	Units	7/3/2019	7/3/2019	7/3/2019	7/3/2019
Acetophenone	-	-	-	µg/kg	7 U	7.1 U	7.1 U	6.6 U
Anthracene	11880	-	-	µg/kg	210 J	120 J	170 J	83 J F1
Atrazine	-	-	-	µg/kg	11 U	11 U	11 U	10 U
Benzaldehyde	-	-	-	µg/kg	19 U	19 U	19 U	18 U
Benzo[a]anthracene	16820	-	-	µg/kg	990	630	810	320 F1
Benzo[a]pyrene	19280	18	-	µg/kg	900	560	720	290 F1
Benzo[b]fluoranthene	19580	-	-	µg/kg	1300	810	1000	460 F1
Benzo[g,h,i]perylene	21900	-	-	µg/kg	570	360 J	460	210 J
Benzo[k]fluoranthene	19600	-	-	µg/kg	460	270	410	160 F1
Bis(2-chloroethoxy)methane	-	-	-	µg/kg	15 U	15 U	15 U	14 U
Bis(2-chloroethyl)ether	-	-	-	µg/kg	5.2 U *	5.3 U *	5.4 U *	5 U * F1
Bis(2-ethylhexyl) phthalate	360000	-	-	µg/kg	730	690	870	240 J
Butyl benzyl phthalate	-	-	-	µg/kg	33 J	21 U	23 J	42 J
Caprolactam	-	-	-	µg/kg	26 U	26 U	27 U	25 U
Carbazole	-	-	-	µg/kg	110 J	63 J	46 J	26 J F1
Chrysene	16860	-	-	µg/kg	1100	700	830	370 J F1
Dibenz(a,h)anthracene	22440	9.8	-	µg/kg	160	93	140	56
Dibenzofuran	-	-	-	µg/kg	27 J	22 J	40 J	15 J F1
Diethyl phthalate	-	-	-	µg/kg	6.3 U	6.4 U	6.4 U	5.9 U
Dimethyl phthalate	-	-	-	µg/kg	5.2 U	5.3 U	5.3 U	5 U
Di-n-butyl phthalate	-	-	-	µg/kg	77 U	78 U	78 U	72 U
Di-n-octyl phthalate	-	-	-	µg/kg	23 U	23 U	23 U	22 U
Fluoranthene	14160	-	-	µg/kg	2200	1400	1600	620
Fluorene	10780	-	-	µg/kg	83 J	53 J	75 J	22 J
Hexachlorobenzene	-	0.19	6.1	µg/kg	6.4 U	6.4 U	6.5 U	6 U
Hexachlorobutadiene	1200	12.00	137	µg/kg	9.2 U	9.4 U	9.4 U	8.7 U
Hexachlorocyclopentadiene	810	-	-	µg/kg	38 U	39 U	39 U	36 U F1
Hexachloroethane	-	110.00	2700	µg/kg	6.7 U	6.8 U	6.8 U	6.3 U F1
Indeno[1,2,3-cd]pyrene	22300	-	-	µg/kg	670	430	540	230
Isophorone	-	-	-	µg/kg	11 U	12 U	12 U	11 U
Naphthalene	7700	-	-	µg/kg	7.5 U	7.6 U	7.7 U	16 J F1

TABLE 3
REMAINING SEDIMENT SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	FRESHWATER SEDIMENT GUIDANCE VALUES**				SD-1	SD-1 (DUP)	SD-2	SD-3
	SGV - Class A	BSGV (HH)	BSGV (W)	Units	7/3/2019	7/3/2019	7/3/2019	7/3/2019
Nitrobenzene	-	-	-	µg/kg	10 U	11 U	11 U	9.9 U
N-Nitrosodi-n-propylamine	-	-	-	µg/kg	6.9 U *	7 U *	7.1 U *	6.5 U *
N-Nitrosodiphenylamine	-	-	-	µg/kg	8.3 U	8.4 U	8.5 U	7.9 U
Pentachlorophenol	14000	-	130	µg/kg	89 U	90 U	91 U	84 U
Phenanthrene	11940	-	-	µg/kg	1100	750	750	280 J
Phenol	-	-	-	µg/kg	6.4 U *	6.5 U *	6.6 U *	6.1 U *
Pyrene	13960	-	-	µg/kg	2000	1300	1600	630
<i>Inorganic Constituents</i>								
Aluminum	-	-	-	mg/kg	3900	4760	4650	4390
Antimony	-	-	-	mg/kg	1.4 U	1.3 U	1.4 U	1.3 U F1
Arsenic	10	-	-	mg/kg	1.5 U	1.5 U	1.5 J	2 J
Barium	-	-	-	mg/kg	35.2 J	45.6 J	40.6 J	31.7 J
Beryllium	-	-	-	mg/kg	0.4 J	0.29 J	0.55	0.38 J
Cadmium	1	-	-	mg/kg	0.18 U	0.17 U	0.18 U	0.27 J
Calcium	-	-	-	mg/kg	7230	7230	6200	6540 F1
Chromium	43	-	-	mg/kg	16.2	17	20.7	18.7
Cobalt	-	-	-	mg/kg	5.4 J	4.5 J	5.7 J	4.6 J
Copper	32	-	-	mg/kg	23.4	17	25.6	36.2
Iron	-	-	-	mg/kg	8710	9550	11400	12700
Lead	36	-	-	mg/kg	42.5	34.8	44.1	49.6
Magnesium	-	-	-	mg/kg	5700	6000	5550	4760 F1
Manganese	-	-	-	mg/kg	130	198	123	110 F1
Nickel	23	-	-	mg/kg	19	15.7	22.6	16.7
Potassium	-	-	-	mg/kg	687 J	876 J	868 J	700 J
Selenium	-	-	-	mg/kg	3.1 U	3 U	3.1 U	3 U
Silver	1	-	-	mg/kg	0.24 U	0.24 U	0.25 U	0.23 U
Sodium	-	-	-	mg/kg	141 J	140 J	121 J	255 J
Thallium	-	-	-	mg/kg	0.82 U	0.8 U	0.83 U	0.79 U
Vanadium	-	-	-	mg/kg	12.7 J	15.8	11.6 J	16.7
Zinc	120	-	-	mg/kg	120	93.9	141	143
Mercury	0.20	-	-	mg/kg	0.037	0.058	0.086	0.077

TABLE 3
REMAINING SEDIMENT SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	FRESHWATER SEDIMENT GUIDANCE VALUES**				SD-1	SD-1 (DUP)	SD-2	SD-3
	SGV - Class A	BSGV (HH)	BSGV (W)	Units	7/3/2019	7/3/2019	7/3/2019	7/3/2019
<i>Pesticides</i>								
4,4'-DDD	-	1.40	-	µg/kg	1.5 U	1.5 U	1.5 U	1.4 U
4,4'-DDE	-	0.63	-	µg/kg	1 U	1.1 U	1.1 U	0.98 U
4,4'-DDT	44	0.44	0.48	d µg/kg	1.6 U	1.6 U	1.6 U	1.5 U
Aldrin	-	-	1.1	e µg/kg	1.3 U	1.3 U	1.4 U	1.3 U
alpha-BHC	-	0.21	21	f µg/kg	0.89 U	0.91 U	0.91 U	0.84 U
beta-BHC	-	0.84	21	f µg/kg	0.99 U	1 U	1 U	0.93 U
Chlordane (technical)	68	0.32	7.6	µg/kg	21 U	22 U	22 U	20 U
delta-BHC	-	0.81	21	f µg/kg	0.54 U	0.55 U	0.55 U	0.51 U
Dieldrin	180	0.002	1.1	e µg/kg	1.1 U	1.2 U	1.2 U	1.1 U
Endosulfan I	1	-	-	µg/kg	1.3 U	1.4 U	1.4 U	1.3 U
Endosulfan II	-	-	-	µg/kg	2.3 U	2.3 U	2.3 U	2.1 U
Endosulfan sulfate	-	-	-	µg/kg	1.1 U	1.1 U	1.1 U	1 U
Endrin	90	5.2	1.4	µg/kg	1.3 U	1.3 U	1.3 U	1.2 U
Endrin aldehyde	-	-	-	µg/kg	2.1 U	2.1 U	2.1 U	2 U
Endrin ketone	-	-	-	µg/kg	1.7 U	1.7 U	1.7 U	1.6 U
gamma-BHC (Lindane)	47	0.65	21	f µg/kg	0.81 U	0.83 U	0.83 U	0.77 U
Heptachlor	75	4	5.2	g µg/kg	1 U	1.1 U	1.1 U	0.98 U
Heptachlor epoxide	15	1.2	5.2	g µg/kg	1.3 U	1.3 U	1.3 U	1.2 U
Methoxychlor	59	-	-	µg/kg	2 U	2 U	2.1 U	1.9 U
Toxaphene	6	0.002	-	µg/kg	32 U	32 U	32 U	30 U

TABLE 3
REMAINING SEDIMENT SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	FRESHWATER SEDIMENT GUIDANCE VALUES**				SD-1	SD-1 (DUP)	SD-2	SD-3
	SGV - Class A	BSGV (HH)	BSGV (W)	Units	7/3/2019	7/3/2019	7/3/2019	7/3/2019
<i>Polychlorinated Biphenyls (PCBs)</i>								
Aroclor 1016	-	-	-	µg/kg	12 U	12 U	12 U	11 U F1 F2
Aroclor 1221	-	-	-	µg/kg	12 U	12 U	12 U	11 U
Aroclor 1232	-	-	-	µg/kg	12 U	12 U	12 U	11 U
Aroclor 1242	-	-	-	µg/kg	12 U	12 U	12 U	11 U
Aroclor 1248	-	-	-	µg/kg	12 U	12 U	12 U	11 U
Aroclor 1254	-	-	-	µg/kg	1300	1200	960	330
Aroclor 1260	-	-	-	µg/kg	12 U	12 U	12 U	11 U F1 F2
Aroclor 1268	-	-	-	µg/kg	12 U	12 U	12 U	11 U
Aroclor 1262	-	-	-	µg/kg	12 U	12 U	12 U	11 U
Total PCBs	100	0.2	4.1	µg/kg	1300	1200	960	330

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCS D) is outside acceptance limits
**Freshwater Sediment Guidance Values (SGVs) and Bioaccumulation SGVs (BSGVs) for the protection of human health (HH) through fish consumption and for protection of wildlife (W); from NYSDEC, 2014 (Screening and Assessment of Contaminated Sediment). Based on default of 2% TOC.
a: SGV is for sum of trichlorethane isomers.
b: BSGV is for sum of trichlorobenzene isomers.
c: SGV is for 1,3-Xylene. SGV for 1,2-xylene is 820 µg/kg.
d: BSGV is for sum of DDT, DDE, and DDD.
e: BSGV is for sum of aldrin + dieldrin.
f: BSGV is for sum of BHC isomers.



TABLE 4
REMAINING SURFACE WATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	SCREENING LEVELS			Units	SW-1		SW-1 (DUP)		SW-2		SW-3	
	Aquatic Life	Human Health			43647	Standard ^a	43647	Standard	43647	Standard	43648	Standard
	Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	-	5	S, WS	µg/L	0.24 U		0.24 U		0.24 U		0.24 U	
1,1,2,2-Tetrachloroethane	-	-		µg/L	0.37 U		0.37 U		0.37 U		0.37 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	-	5	S, WS	µg/L	0.31 U		0.31 U		0.31 U		0.31 U	
1,1,2-Trichloroethane	-	1	S, WS	µg/L	0.43 U		0.43 U		0.43 U		0.43 U	
1,1-Dichloroethane	-	5	S, WS	µg/L	0.26 U		0.26 U		0.26 U		0.26 U	
1,1-Dichloroethene	-	-		µg/L	0.26 U		0.26 U		0.26 U		0.26 U	
1,2,3-Trichlorobenzene	5	c	-	µg/L	0.36 U		0.36 U		0.36 U		0.36 U	
1,2,4-Trichlorobenzene	5	c	-	µg/L	0.37 U		0.37 U		0.37 U		0.37 U	
1,2-Dibromo-3-Chloropropane	-	0.04	S, WS	µg/L	0.38 U		0.38 U		0.38 U		0.38 U	
1,2-Dichlorobenzene	5	c	3	S, WS	µg/L	0.43 U		0.43 U		0.43 U		0.43 U
1,2-Dichloroethane	-	0.6	S, WS	µg/L	0.43 U		0.43 U		0.43 U		0.43 U	
1,2-Dichloropropane	-	1	S, WS	µg/L	0.35 U		0.35 U		0.35 U		0.35 U	
1,3-Dichlorobenzene	5	d	3	S, WS	µg/L	0.34 U		0.34 U		0.34 U		0.34 U
1,4-Dichlorobenzene	5	d	3	S, WS	µg/L	0.33 U		0.33 U		0.33 U		0.33 U
1,4-Dioxane	-	-		µg/L	28 U *		28 U		28 U *		28 U *	
2-Butanone (MEK)	-	-		µg/L	1.9 U		1.9 U		1.9 U		1.9 U	
2-Hexanone	-	-		µg/L	1.1 U		1.1 U		1.1 U		1.1 U	
4-Methyl-2-pentanone (MIBK)	-	-		µg/L	1.3 U		1.3 U		1.3 U		1.3 U	
Acetone	-	-		µg/L	4.4 U		4.4 U		4.4 U		4.4 U	
Benzene	-	1	S, WS	µg/L	0.2 U		0.2 U		0.2 U		0.2 U	
Bromoform	-	-		µg/L	0.54 U		0.54 U		0.54 U		0.54 U	
Bromomethane	-	5	S, WS	µg/L	0.55 U		0.55 U		0.55 U		0.55 U	
Carbon disulfide	-	60	S, WS	µg/L	0.82 U		0.82 U		0.82 U		0.82 U	
Carbon tetrachloride	-	-		µg/L	0.21 U		0.21 U		0.21 U		0.21 U	
Chlorobenzene	5	5	S, WS	µg/L	0.38 U		0.38 U		0.38 U		0.38 U	
Chlorobromomethane	-	5	S, WS	µg/L	0.41 U		0.41 U		0.41 U		0.41 U	
Chlorodibromomethane	-	5	S, WS	µg/L	0.28 U		0.28 U		0.28 U		0.28 U	
Chloroethane	-	-		µg/L	0.32 U		0.32 U		0.32 U		0.32 U	
Chloroform	-	7	S, WS	µg/L	0.33 U		0.33 U		0.33 U		0.33 U	
Chloromethane	-	5	S, WS	µg/L	0.4 U		0.4 U		0.4 U		0.4 U	
cis-1,2-Dichloroethene	-	5	S, WS	µg/L	0.22 U		0.22 U		0.22 U		0.22 U	
cis-1,3-Dichloropropene	-	0.4	S, WS	µg/L	0.22 U		0.22 U		0.22 U		0.22 U	
Cyclohexane	-	-		µg/L	0.32 U		0.32 U		0.32 U		0.32 U	
Dichlorobromomethane	-	-		µg/L	0.34 U		0.34 U		0.34 U		0.34 U	
Dichlorodifluoromethane	-	-		µg/L	0.31 U		0.31 U		0.31 U		0.31 U	
Ethylbenzene	-	5	S, WS	µg/L	0.3 U		0.3 U		0.3 U		0.3 U	
Ethylene Dibromide	-	0.0006	S, WS	µg/L	0.5 U		0.5 U		0.5 U		0.5 U	
Isopropylbenzene	-	-		µg/L	0.34 U		0.34 U		0.34 U		0.34 U	
Methyl acetate	-	-		µg/L	0.79 U		0.79 U		0.79 U		0.79 U	
Methyl tert-butyl ether	-	-		µg/L	0.47 U		0.47 U		0.47 U		0.47 U	
Methylcyclohexane	-	-		µg/L	0.26 U		0.26 U		0.26 U		0.26 U	
Methylene Chloride	-	5	S, WS	µg/L	0.32 U		0.32 U		0.32 U		0.32 U	

TABLE 4
REMAINING SURFACE WATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	SCREENING LEVELS			SW-1	SW-1 (DUP)	SW-2	SW-3			
	Aquatic Life	Human Health	Units	43647	Standard ^a	43647	Standard	43648	Standard	
m-Xylene & p-Xylene	-	5 S, WS	µg/L	0.3 U		0.3 U		0.3 U		
o-Xylene	-	5 S, WS	µg/L	0.36 U		0.36 U		0.36 U		
Styrene	-	-	µg/L	0.42 U		0.42 U		0.42 U		
Tetrachloroethene	-	-	µg/L	0.25 U		0.25 U		0.25 U		
Toluene	-	5 S, WS	µg/L	0.38 U		0.38 U		0.38 U		
trans-1,2-Dichloroethene	-	5 S, WS	µg/L	0.24 U		0.24 U		0.24 U		
trans-1,3-Dichloropropene	-	0.4 S, WS	µg/L	0.49 U		0.49 U		0.49 U		
Trichloroethene	-	5 S, WS	µg/L	0.31 U		0.31 U		0.31 U		
Trichlorofluoromethane	-	5 S, WS	µg/L	0.32 U		0.32 U		0.32 U		
Vinyl chloride	-	-	µg/L	0.17 U		0.17 U		0.17 U		
Semi-volatile Organic Compounds (SVOCs)										
1,1'-Biphenyl	-	-	µg/L	1.2 U		1.2 U		1.2 U		
1,2,4,5-Tetrachlorobenzene	-	10 S, E	µg/L	1.2 U		1.2 U		1.2 U		
1,4-Dioxane	-	-	µg/L	0.17 U*		0.17 U*		0.17 U*		
2,2'-oxybis[1-chloropropane]	-	-	µg/L	0.63 U		0.63 U		0.63 U		
2,3,4,6-Tetrachlorophenol	-	-	µg/L	0.75 U		0.75 U		0.75 U		
2,4,5-Trichlorophenol	-	-	µg/L	0.28 U		0.28 U		0.28 U		
2,4,6-Trichlorophenol	-	-	µg/L	0.3 U		0.3 U		0.3 U		
2,4-Dichlorophenol	-	0.3 S, E	µg/L	0.42 U		0.42 U		0.42 U		
2,4-Dimethylphenol	-	1000 S, FC	µg/L	0.24 U		0.24 U		0.24 U		
2,4-Dinitrophenol	-	400 S, FC	µg/L	14 U		14 U		14 U		
2,4-Dinitrotoluene	-	-	µg/L	1 U		1 U		1 U		
2,6-Dinitrotoluene	-	-	µg/L	0.39 U		0.39 U		0.39 U		
2-Chloronaphthalene	-	10 S, E	µg/L	1.2 U		1.2 U		1.2 U		
2-Chlorophenol	-	-	µg/L	0.38 U		0.38 U		0.38 U		
2-Methylnaphthalene	-	-	µg/L	1.1 U		1.1 U		1.1 U		
2-Methylphenol	-	-	µg/L	0.26 U		0.26 U		0.26 U		
2-Nitroaniline	-	-	µg/L	0.47 U		0.47 U		0.47 U		
2-Nitrophenol	-	-	µg/L	0.75 U		0.75 U		0.75 U		
3,3'-Dichlorobenzidine	-	-	µg/L	1.4 U		1.4 U		1.4 U		
3-Nitroaniline	-	-	µg/L	0.96 U		0.96 U		0.96 U		
4,6-Dinitro-2-methylphenol	-	-	µg/L	13 U		13 U		13 U		
4-Bromophenyl phenyl ether	-	-	µg/L	0.75 U		0.75 U		0.75 U		
4-Chloro-3-methylphenol	-	-	µg/L	0.58 U		0.58 U		0.58 U		
4-Chloroaniline	-	-	µg/L	1.9 U		1.9 U		1.9 U		
4-Chlorophenyl phenyl ether	-	-	µg/L	1.3 U		1.3 U		1.3 U		
4-Methylphenol	-	-	µg/L	0.24 U		0.24 U		0.24 U		
4-Nitroaniline	-	-	µg/L	0.54 U		0.54 U		0.54 U		
4-Nitrophenol	-	-	µg/L	0.69 U		0.69 U		0.69 U		
Acenaphthene	-	20 S, E	µg/L	1.1 U		1.1 U		1.1 U		
Acenaphthylene	-	-	µg/L	0.82 U		0.82 U		0.82 U		
Acetophenone	-	-	µg/L	0.79 U		0.79 U		0.79 U		
Anthracene	-	-	µg/L	0.63 U		0.63 U		0.63 U		

TABLE 4
REMAINING SURFACE WATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	SCREENING LEVELS		Units	SW-1		SW-1 (DUP)		SW-2		SW-3		
	Aquatic Life	Human Health		43647	Standard ^a	43647	Standard	43647	Standard	43648	Standard	
Atrazine	-	-	µg/L	1.3 U		1.3 U		1.3 U		1.3 U		
Benzaldehyde	-	-	µg/L	0.59 U		0.59 U		0.59 U		0.59 U		
Benzo[a]anthracene	-	-	µg/L	0.59 U		0.59 U		0.59 U		0.59 U		
Benzo[a]pyrene	-	-	µg/L	0.41 U		0.41 U		0.41 U		0.41 U		
Benzo[b]fluoranthene	-	-	µg/L	1.1 U		1.1 U		1.1 U		1.1 U		
Benzo[g,h,i]perylene	-	-	µg/L	1.4 U		1.4 U		1.4 U		1.4 U		
Benzo[k]fluoranthene	-	-	µg/L	0.67 U		0.67 U		0.67 U		0.67 U		
Bis(2-chloroethoxy)methane	-	-	µg/L	0.24 U		0.24 U		0.24 U		0.24 U		
Bis(2-chloroethyl)ether	-	-	µg/L	0.3 U		0.3 U		0.3 U		0.3 U		
Bis(2-ethylhexyl) phthalate	-	5	S, WS	µg/L	1.7 U	1.7 U		1.7 U		1.7 U		
Butyl benzyl phthalate	-	-	µg/L	0.85 U		0.85 U		0.85 U		0.85 U		
Caprolactam	-	-	µg/L	0.68 U		0.68 U		0.68 U		0.68 U		
Carbazole	-	-	µg/L	0.68 U		0.68 U		0.68 U		0.68 U		
Chrysene	-	-	µg/L	0.91 U		0.91 U		0.91 U		0.91 U		
Dibenz(a,h)anthracene	-	-	µg/L	0.72 U		0.72 U		0.72 U		0.72 U		
Dibenzofuran	-	6E-10	S, FC	µg/L	1.1 U	1.1 U		1.1 U		1.1 U		
Diethyl phthalate	-	-	µg/L	0.98 U		0.98 U		0.98 U		0.98 U		
Dimethyl phthalate	-	-	µg/L	0.77 U		0.77 U		0.77 U		0.77 U		
Di-n-butyl phthalate	-	-	µg/L	0.84 U		0.84 U		0.84 U		0.84 U		
Di-n-octyl phthalate	-	-	µg/L	4.8 U		4.8 U		4.8 U		4.8 U		
Fluoranthene	-	-	µg/L	0.84 U		0.84 U		0.84 U		0.84 U		
Fluorene	-	-	µg/L	0.91 U		0.91 U		0.91 U		0.91 U		
Hexachlorobenzene	-	-	µg/L	0.4 U		0.4 U		0.4 U		0.4 U		
Hexachlorobutadiene	-	-	µg/L	0.78 U		0.78 U		0.78 U		0.78 U		
Hexachlorocyclopentadiene	-	-	µg/L	1.7 U		1.7 U		1.7 U		1.7 U		
Hexachloroethane	-	5	S, WS	µg/L	1.2 U	1.2 U		1.2 U		1.2 U		
Indeno[1,2,3-cd]pyrene	-	-	µg/L	1.3 U		1.3 U		1.3 U		1.3 U		
Isophorone	-	-	µg/L	0.8 U		0.8 U		0.8 U		0.8 U		
Naphthalene	-	10	S, E	µg/L	1.1 U	1.1 U		1.1 U		1.1 U		
Nitrobenzene	-	0.4	S, WS	µg/L	0.57 U	0.57 U		0.57 U		0.57 U		
N-Nitrosodi-n-propylamine	-	-	µg/L	0.43 U		0.43 U		0.43 U		0.43 U		
N-Nitrosodiphenylamine	-	-	µg/L	0.89 U		0.89 U		0.89 U		0.89 U		
Pentachlorophenol	-	-	µg/L	1.4 U		1.4 U		1.4 U		1.4 U		
Phenanthrene	-	-	µg/L	0.58 U		0.58 U		0.58 U		0.58 U		
Phenol	-	1	S, E	µg/L	0.29 U	0.29 U		0.29 U		0.29 U		
Pyrene	-	-	µg/L	1.6 U		1.6 U		1.6 U		1.6 U		
Inorganic Constituents												
Aluminum	100	S	-	µg/L	127	107		193		206		
Antimony	-	-	3	S,WS	µg/L	0.4 U	0.4 U	0.4 U		0.4 U		
Arsenic	150	S,D	50	S, WS	µg/L	0.73 U	0.73 U	0.87 J		0.73 U		
Barium	-	-	1000	S,WS	µg/L	103	101	101		99.2		
Beryllium	1100	-	-	µg/L	0.25 U	0.25 U		0.25 U		0.25 U		
Cadmium	-	5	S, WS	µg/L	0.81 U	8.6	0.81 U	8.6	0.81 U	8.7	0.81 U	8.5

TABLE 4
REMAINING SURFACE WATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	SCREENING LEVELS			Units	SW-1		SW-1 (DUP)		SW-2		SW-3	
	Aquatic Life	Human Health			43647	Standard ^a	43647	Standard	43647	Standard	43648	Standard
Calcium	-	-		µg/L	71200		71100		72700		70600	
Chromium	-	50	S, WS	µg/L	2.3 U	155	2.3 U	155	2.3 U	157	2.3 U	154
Cobalt	5	-	S,D	µg/L	1.6 U		1.6 U		1.6 U		1.6 U	
Copper	-	200	S,WS	µg/L	2 U	28	5.8	28	13	28	2.9 J	28
Iron	-	300	S,E	µg/L	397		386		530		560	
Lead	-	50	S, WS	µg/L	1.2	12	1.1 J	12	2	12	2	12
Magnesium	-	35000	S,WS	µg/L	26400		26500		26400		26200	
Manganese	-	300		µg/L	95.2		94.3		106		112	
Mercury	0.77	0.0007	S,D	µg/L	0.12 U		0.12 U		0.12 U		0.12 U	
Nickel	-	100	S, WS	µg/L	2.4 U	125	2.4 U	126	2.4 U	127	2.4 U	125
Potassium	-	-		µg/L	4320		4400		4290		4460	
Selenium	4.6	10	S,D	µg/L	5.4 U		5.4 U		5.4 U		5.4 U	
Silver	0.1	50	S	µg/L	0.59 U		0.59 U		0.59 U		0.59 U	
Sodium	-	-		µg/L	101000		102000		103000		102000	
Thallium	8	-	S	µg/L	0.16 U		0.16 U		0.16 U		0.16 U	
Vanadium	14	-	S	µg/L	1.4 J		1.3 J		1.5 J		1.4 J	
Zinc	-	-		µg/L	11.1 U	225	11.1 U	226	11.1 U	228	11.1 U	224
Total Hardness	-	-		mg/L	286		286		290		284	
Pesticides												
4,4'-DDD	0.000011	0.00008	W,e	S, FC	µg/L	0.006 U	0.006 U		0.006 U		0.006 U	
4,4'-DDE	0.000011	0.000007	W,e	S, FC	µg/L	0.002 U	0.002 U		0.002 U		0.002 U	
4,4'-DDT	0.000011	0.00005	W,e	S, FC	µg/L	0.004 U	0.004 U		0.004 U		0.004 U	
Aldrin	-	0.001		S, FC	µg/L	0.003 U	0.003 U		0.003 U		0.003 U	
alpha-BHC	-	-			µg/L	0.007 U	0.007 U		0.007 U		0.007 U	
beta-BHC	-	-			µg/L	0.004 U	0.004 U		0.004 U		0.004 U	
Chlordane (technical)	-	0.05		S, WS	µg/L	0.055 U	0.055 U		0.055 U		0.055 U	
delta-BHC	-	-			µg/L	0.005 U	0.005 U		0.005 U		0.005 U F1	
Dieldrin	0.056	0.0000006		S, FC	µg/L	0.003 U	0.003 U		0.003 U		0.003 U	
Endosulfan I	0.009	-			µg/L	0.002 U	0.002 U		0.002 U		0.002 U	
Endosulfan II	0.009	-			µg/L	0.004 U	0.004 U		0.004 U		0.004 U	
Endosulfan sulfate	-	-			µg/L	0.006 U	0.006 U		0.006 U		0.006 U	
Endrin	0.036	0.002		S, FC	µg/L	0.004 U	0.004 U		0.004 U		0.004 U	
Endrin aldehyde	-	-			µg/L	0.008 U	0.008 U		0.008 U		0.008 U	
Endrin ketone	-	-			µg/L	0.008 U	0.008 U		0.008 U		0.008 U	
gamma-BHC (Lindane)	-	-			µg/L	0.012 U	0.012 U		0.012 U		0.012 U	
Heptachlor	-	0.0002		S, FC	µg/L	0.003 U	0.003 U		0.003 U		0.003 U	
Heptachlor epoxide	-	0.0003		S, FC	µg/L	0.005 U	0.005 U		0.005 U		0.005 U	
Methoxychlor	0.03	35		S, WS	µg/L	0.004 U	0.004 U		0.004 U		0.004 U	
Toxaphene	0.005	0.000006		S, FC	µg/L	0.11 U	0.11 U		0.11 U		0.11 U	

TABLE 4
REMAIINING SURFACE WATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	SCREENING LEVELS			SW-1		SW-1 (DUP)		SW-2		SW-3	
	Aquatic Life	Human Health	Units	43647	Standard ^a	43647	Standard	43647	Standard	43648	Standard
<i>Polychlorinated Biphenyls (PCBs)</i>											
Aroclor 1016	-	-	µg/L	0.12 U		0.12 U		0.12 U		0.12 U	
Aroclor 1221	-	-	µg/L	0.12 U		0.12 U		0.12 U		0.12 U	
Aroclor 1232	-	-	µg/L	0.12 U		0.12 U		0.12 U		0.12 U	
Aroclor 1242	-	-	µg/L	0.12 U		0.12 U		0.12 U		0.12 U	
Aroclor 1248	-	-	µg/L	0.12 U		0.12 U		0.12 U		0.12 U	
Aroclor 1254	-	-	µg/L	0.11 U		0.11 U		0.11 U		0.11 U	
Aroclor 1260	-	-	µg/L	0.11 U		0.11 U		0.11 U		0.11 U	
Aroclor 1268	-	-	µg/L	0.11 U		0.11 U		0.11 U		0.11 U	
Aroclor 1262	-	-	µg/L	0.11 U		0.11 U		0.11 U		0.11 U	
Total PCBs	0.00012	W	0.000006 S, FC	µg/L	ND	ND		ND		ND	

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.

J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.

F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.

* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits

^a - 6 NYCRR Part 703 Class A; calculated as hardness-based dissolved criterion

^b - Hardness calculated as 2.5*[Ca] + 4.1*[Mg] in mg/L

Cd: (0.85) exp(0.7852 [ln (ppm hardness)] - 2.715)

Cr: (0.86) exp(0.819 [ln (ppm hardness)] + 0.6848)

Cu: (0.96) exp(0.8545 [ln (ppm hardness)] - 1.702)

Pb: {1.46203 - [ln (ppm hardness) (0.145712)]} exp (1.273 [ln hardness]) - 1.052)

Ni: (0.997) exp (0.846 [ln (hardness)] + 0.0584)

Zn: exp(0.85 [ln(ppm hardness)] + 0.50)

c - applies to sum of 1,2,3-, 1,2,4-, and 1,3,5-trichlorobenzene

d - applies to sum of 1,2-, 1,3- and 1,4-dichlorobenzene

e - applies to sum of DDD, DDE and DDT

S = Part 703 standard; for aquatic life, chronic standard is used.

D = Dissolved form

WS - Water Supply

E = Aesthetic basis

FC = Fish consumption

W = Wildlife

TABLE 5
REMAINING SOIL VAPOR SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	NYSDOH	USEPA	USEPA	Location: Date:	SV-1		SV-2		AA-1 6/27/2019	AA-1 (DUP) 6/27/2019
	Typical	Regional	Regional		SV-1	Attenuation	SV-2	Attenuation		
	Indoor Air Conc. (µg/m ³) ^(a)	Screening Levels Composite Worker Carcinogenic ^(b)	Screening Levels Composite Worker Non-carcinogenic ^(c)		6/27/2019	Factor Applied ^(d)	6/27/2019	Factor Applied ^(d)		
	Non-Residential		Units:	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	
1,1,1-Trichloroethane	21	NE	2200		1.10 U	ND	1.10 U	ND	1.10 U	1.1 U
1,1,2,2-Tetrachloroethane	NE	0.21	NE		1.4 U	ND	1.4 U	ND	1.4 U	1.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	2200		0.45 J	0.014	0.42 J	0.013	0.32 J	0.28 J
1,1,2-Trichloroethane	< 2	0.77	0.088		1.1 U	ND	1.1 U	ND	1.1 U	1.1 U
1,1-Dichloroethane	< 1	7.7	NE		0.81 U	ND	0.81 U	ND	0.81 U	0.81 U
1,1-Dichloroethene	< 1	NE	88		0.14 U	ND	0.14 U	ND	0.14 U	0.14 U
1,2,4-Trichlorobenzene	< 7	NE	0.88		3.7 U	ND	3.7 U	ND	3.7 U	3.7 U
1,2,4-Trimethylbenzene	9.5	NE	26		0.98 U	ND	0.98 U	ND	0.98 U	0.98 U
1,2-Dibromoethane (EDB)	< 2	0.02	3.9		1.5 U	ND	1.5 U	ND	1.5 U	1.5 U
1,2-Dichlorobenzene	< 1	NE	88		1.2 U	ND	1.2 U	ND	1.2 U	1.2 U
1,2-Dichloroethane	< 1	0.47	3.1		0.81 U	ND	0.81 U	ND	0.81 U	0.81 U
1,2-Dichloropropane	< 2	3.3	1.8		0.92 U	ND	0.92 U	ND	0.92 U	0.92 U
1,2-Dichlorotetrafluoroethane (Freon 114)	NE	NE	NE		1.4 U	ND	1.4 U	ND	1.4 U	1.4 U
1,2-Dimethylbenzene (o-Xylene)	8	NE	44		0.86 J	0.026	0.55 J	0.017	0.87 U	0.87 U
1,3,5-Trimethylbenzene (mesitylene)	3.7	NE	26		0.98 U	ND	0.98 U	ND	0.98 U	0.98 U
1,3-Butadiene	< 3	0.41	0.88		15	0.450	0.25 J	0.008	0.44 U	0.44 U
1,3-Dichlorobenzene	< 2.4	NE	NE		1.20 U	ND	1.20 U	ND	1.20 U	1.20 U
1,4-Dichlorobenzene	5.5	1.1	350		1.2 U	ND	1.2 U	ND	1.2 U	1.2 U
1,4-Dioxane	NE	2.5	13		18 U	ND	18 U	ND	18 U	18 U
2,2,4-Trimethylpentane	NE	NE	NE		0.93 U	ND	0.93 U	ND	0.93 U	0.93 U
2-Butanone (MEK)	12	NE	2200		67	2.01	54	1.620	1 J	0.9 J
2-Chlorotoluene	NE	NE	NE		1 U	ND	1 U	ND	1 U	1 U
2-Hexanone	NE	NE	13		8.7	0.261	5.9	0.177	2 U	2 U
3-Chloropropene (allyl chloride)	NE	2	0.44		1.6 U	ND	1.6 U	ND	1.6 U	1.6 U
4-Ethyltoluene	4	NE	NE		0.98 U	ND	0.98 U	ND	0.98 U	0.98 U
4-Isopropyltoluene (p-Cymene)	NE	NE	NE		1.1 U	ND	1.1 U	ND	1.1 U	1.1 U
4-Methyl-2-pentanone (MIBK)	6.0	NE	1300		2 U	ND	1.7 J	0.051	2 U	2 U
Acetone	98.9	NE	14000		950 E	28.5	730 E	21.9	8 J	11 J
Benzene	9.4	1.6	13		17	0.51	1.5	0.045	0.23 J	0.64 U
Benzyl chloride	< 6.8	0.3	0.4		1 U	ND	1 U	ND	1 U	1 U
Bromodichloromethane	NE	0.33	NE		1.3 U	ND	1.3 U	ND	1.3 U	1.3 U
Bromoethene (vinyl bromide)	NE	0.38	1.3		0.87 U	ND	0.87 U	ND	0.87 U	0.87 U
Bromoform	NE	11	NE		2.1 U	ND	2.1 U	ND	2.1 U	2.1 U
Bromomethane	< 1.7	NE	2.2		0.78 U	ND	0.78 U	ND	0.78 U	0.78 U
Butane	NE	NE	NE		25	0.750	3.9	0.117	1.2 U	1.2 U

TABLE 5
REMAINING SOIL VAPOR SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	NYSDOH	USEPA	USEPA	Location: Date: Units:	SV-1	SV-1	SV-2	SV-2	AA-1	AA-1 (DUP)
	Typical	Regional	Regional		SV-1	Attenuation	SV-2	Attenuation	AA-1	AA-1 (DUP)
	Indoor Air Conc. (µg/m ³) ^(a)	Screening Levels Composite Worker Carcinogenic ^(b)	Screening Levels Composite Worker Non-carcinogenic ^(c)		6/27/2019	Factor Applied ^(d)	6/27/2019	Factor Applied ^(d)	6/27/2019	6/27/2019
	Non-Residential			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	
Carbon disulfide	4.2	NE	310		9.5	0.285	23	0.690	1.6 U	1.6 U
Carbon tetrachloride	< 1	2	44		2.1	0.063	0.49	0.015	0.3	0.22
Chlorobenzene	< 0.9	NE	22		0.92 U	ND	0.92 U	ND	0.92 U	0.92 U
CHLORODIFLUOROMETHANE	NE	NE	22000		1.8 U	ND	0.92 J	0.028	1.8 U	1.1 J
Chloroethane	< 1.1	NE	4400		1.3 U	ND	1.3 U	ND	1.3 U	1.3 U
Chloroform	1.1	0.53	43		3.2	0.096	1.5	0.045	0.98 U	0.98 U
Chloromethane	3.7	NE	39		0.67 J	0.020	0.6 J	0.018	0.91 J	0.81 J
cis-1,2-Dichloroethene	NE	NE	NE		0.2 U	ND	0.2 U	ND	0.2 U	0.2 U
cis-1,3-Dichloropropene	< 2.3	NE	NE		0.91 U	ND	0.91 U	ND	0.91 U	0.91 U
Cyclohexane	NE	NE	2600		5.4	0.162	0.61 J	0.018	0.69 U	0.69 U
Dibromochloromethane	16.5	NE	NE		1.7 U	ND	1.7 U	ND	1.7 U	1.7 U
Dichlorodifluoromethane (Freon 12)	< 6.8	NE	44		1.8 J	0.054	1.8 J	0.054	1.7 J	1.9 J
Ethylbenzene	5.7	4.9	440		0.5 J	0.014	0.4 J	0.012	0.87 U	0.87 U
Hexachlorobutadiene	< 6.8	0.56	NE		2.1 U	ND	2.1 U	ND	2.1 U	2.1 U
Isopropanol	NE	NE	88		12.0 U	ND	7.3 J	0.219	12 U	12 U
Isopropylbenzene (Cumene)	NE	NE	180		0.98 U	ND	0.98 U	ND	0.98 U	0.98 U
Methylene chloride	10	1200	260		1.7 U	ND	3.5	0.105	1.7 U	6.7
Methylmethacrylate	NE	NE	310		2 U	ND	2 U	ND	2 U	2 U
Naphthalene	5.1	0.36	1		2.6 U	ND	2.6 U	ND	2.6 U	2.6 U
n-Butylbenzene	NE	NE	NE		1.1 U	ND	1.1 U	ND	1.1 U	1.1 U
n-Heptane	NE	NE	180		3.7	0.111	1.5	0.045	0.82 U	0.82 U
n-Hexane	10	NE	310		6.7	0.201	4.3	0.129	0.7 U	5.6
n-Propylbenzene	NE	NE	440		0.98 U	ND	0.98 U	ND	0.98 U	0.98 U
sec-Butylbenzene	NE	NE	NE		1.1 U	ND	1.1 U	ND	1.1 U	1.1 U
Styrene	1.9	NE	440		0.71 J	0.021	0.49 J	0.015	0.85 U	0.85 U
tert-Butyl alcohol	NE	NE	NE		15 U	ND	15 U	ND	15 U	15 U
tert-Butyl methyl ether (MTBE)	11.5	47	1300		0.72 U	ND	0.72 U	ND	0.72 U	0.72 U
tert-Butylbenzene	NE	NE	NE		1.1 U	ND	1.1 U	ND	1.1 U	1.1 U
Tetrachloroethene (PCE)	NE	47	18		15	0.450	5.3	0.159	1.4 U	1.4 U
Tetrahydrofuran	NE	NE	880		15 U	ND	15 U	ND	15 U	15 U
Toluene	43	NE	2200		8.8	0.264	4.6	ND	0.54 J	0.61 J
trans-1,2-Dichloroethene	NE	NE	NE		0.79 U	ND	0.79 U	ND	0.79 U	0.79 U
trans-1,3-Dichloropropene	< 1.3	NE	NE		0.91 U	ND	0.91 U	ND	0.91 U	0.91 U
Trichloroethene (TCE)	NE	3	0.88		0.19 U	ND	0.17 J	0.005	0.19 U	0.19 U
Trichlorofluoromethane (Freon 11)	3.5	NE	NE		5	0.156	3	ND	1.1	0.85 J

**TABLE 5
REMAINING SOIL VAPOR SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Constituent	NYSDOH	USEPA	USEPA	Location: Date:	SV-1	SV-1	SV-2	SV-2	AA-1	AA-1 (DUP)
	Typical Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) ^(a) Non-Residential	Regional Screening Levels Composite Worker Carcinogenic ^(b)	Regional Screening Levels Composite Worker Non-carcinogenic ^(c)		SV-1 6/27/2019 $\mu\text{g}/\text{m}^3$	Attenuation Factor Applied ^(d) $\mu\text{g}/\text{m}^3$	SV-2 6/27/2019 $\mu\text{g}/\text{m}^3$	Attenuation Factor Applied ^(d) $\mu\text{g}/\text{m}^3$	AA-1 6/27/2019 $\mu\text{g}/\text{m}^3$	AA-1 (DUP) 6/27/2019 $\mu\text{g}/\text{m}^3$
Vinyl chloride	< 2	2.8	44		0.2 U	ND	0.2 U	ND	0.2 U	0.2 U
Xylenes, m & p	22	NE	44		1.7 J	0.051	1.1 J	0.033	2.2 U	2.2 U

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.

J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.

ND - Not detected

NE - Not established

Boxed and bolded values indicate concentrations above NYSDOH's typical indoor air concentrations for non-residential settings.

$\mu\text{g}/\text{m}^3$ - micrograms per cubic meter

(a) From "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (NYSDOH October 2006). As recommended by NYSDOH, typical indoor air concentrations in non-residential settings are the 90th percentile values from the USEPA BASE data.

(b) From "OSWER Technical Guide for Assessing and Mitigation the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air" (USEPA June 2015), Generic Regional Screening Levels, Composite Worker Air, Carcinogenic .

(c) From "OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air" (USEPA June 2015), Generic Regional Screening Levels, Composite Worker Air, Non-Carcinogenic .

(d) For purposes of comparing against applicable criteria, an attenuation factor of 0.03 was used for soil vapor, as recommended in Appendix A from the document "OSWER Technical Guide for Assessing and Mitigation the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air" (USEPA June 2015).

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-1 ⁽²⁾	MW-1 ⁽²⁾	MW-1 ⁽²⁾	MW-2	MW-2	MW-2	MW-3	MW-3	MW-4	MW-5
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	6/29/2009	8/16/2018	5/13/2019	6/29/2009	8/16/2018	5/13/2019	6/29/2009	5/13/2019	5/14/2019	5/14/2019
	Guidance	Standard		Guidance	Standard	Guidance	Standard	Guidance	Standard	Guidance	Standard	Guidance	Standard
<i>Volatile Organic Compounds (VOCs)</i>													
1,1,1-Trichloroethane	NE	5	µg/L	--	0.24 U	1 U	--	0.24 U	1 U	--	1 U	1 U	2 U
1,1,1,2-Tetrachloroethane	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NE	5	µg/L	--	0.37 U	1 U	--	0.37 U	1 U	--	1 U	1 U	2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	5	µg/L	--	0.31 U	1 U	--	0.31 U	1 U	--	1 U	1 U	2 U
1,1,2-Trichloroethane	NE	1	µg/L	--	0.43 U	1 U	--	0.43 U	1 U	--	1 U	1 U	2 U
1,1-Dichloroethane	NE	5	µg/L	--	0.26 U	1 U	--	0.26 U	1 U	--	1 U	1 U	2 U
1,1-Dichloroethene	NE	5	µg/L	--	0.12 U	1 U	--	0.12 U	1 U	--	1 U	1 U	2 U
1,1-Dichloropropene	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NE	NE	µg/L	--	0.36 U	1 U	--	0.36 U	1 U	--	1 U	1 U	2 U
1,2,3-Trichloropropane	NE	0.04	µg/L	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10	5	µg/L	--	0.37 U	1 U	--	0.37 U	1 U	--	1 U	1 U	2 U
1,2,4-Trimethylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetramethylbenzene	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	NE	0.04	µg/L	--	0.38 U	1 U	--	0.38 U	1 U	--	1 U	1 U	2 U
1,2-Dibromoethane	NE	0.0006	µg/L	--	0.5 U	1 U	--	0.5 U	1 U	--	1 U	1 U	2 U
1,2-Dichlorobenzene	NE	3	µg/L	--	0.43 U	1 U	--	0.43 U	1 U	0.64 J	1.8	1 U	2 U
1,2-Dichloroethane	NE	0.6	µg/L	--	0.43 U	1 U	--	0.43 U	1 U	--	1 U	1 U	2.7
1,2-Dichloropropane	NE	1	µg/L	--	0.35 U	1 U	--	0.35 U	1 U	--	1 U	1 U	2 U
1,3-Dichlorobenzene	NE	3	µg/L	--	0.34 U	1 U	--	0.34 U	1 U	--	1 U	1 U	2 U
1,3-Dichloropropane	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, Total	NE	0.4	µg/L	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	3	µg/L	--	0.76 U	1 U	--	0.76 U	1 U	--	1 U	1 U	2 U
1,4-Dioxane ⁽²⁾	10	NE	µg/L	--	28 U	50 U	--	28 U	50 U	--	50 U	50 U	100 U
2-Butanone (MEK)	50	NE	µg/L	--	1.9 U	5 U	--	1.9 U	5 U	--	5 U	5 U	10 U
2-Hexanone	50	NE	µg/L	--	2.9 U	5 U	--	2.9 U	5 U	--	5 U	5 U	10 U
2,2-Dichloropropane	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NE	NE	µg/L	--	2.7 U	5 U	--	2.7 U	5 U	--	5 U	5 U	10 U
Acetone	50	NE	µg/L	--	5 U	5 U	--	5 U	5 U	--	5 U	5 U	21
Acrylonitrile	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
Benzene	NE	1	µg/L	--	0.43 U	1 U	--	0.43 U	1 U	0.81 J	0.75 J	1 U	6.2
Bromobenzene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	NE	5	µg/L	--	0.41 U	1 U	--	0.41 U	1 U	--	1 U	1 U	2 U
Bromodichloromethane	50	NE	µg/L	--	0.34 U	1 U	--	0.34 U	1 U	--	1 U	1 U	2 U
Bromoform	NE	NE	µg/L	--	0.54 U	1 U	--	0.54 U	1 U	--	1 U	1 U	2 U
Bromomethane	NE	5	µg/L	--	1 U	1 U	--	1 U	1 U	--	1 U	1 U	2 U
Carbon disulfide	60	60	µg/L	--	0.16 U	1 U	--	0.16 U	1 U	--	1 U	1.2	89 F1
Carbon tetrachloride	NE	5	µg/L	--	0.21 U	1 U	0.32 J	0.21 U	1 U	--	1 U	1 U	2 U
Chlorobenzene	NE	5	µg/L	--	0.38 U	1 U	--	0.38 U	1 U	3.1	6	1 U	2 U
Chlorobromomethane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chloroethane	NE	5	µg/L	--	0.32 U	1 U	--	0.32 U	1 U	--	1 U	1 U	2 U
Chloroform	NE	7	µg/L	0.38 J	0.33 U	1 U	0.6 J	0.41 J	0.69 J	--	1 U	0.77 J	8.1
Chloromethane	NE	5	µg/L	--	0.14 U	1 U	--	0.14 U	1 U	--	1 U	1 U	2 U
cis-1,2-Dichloroethene	NE	5	µg/L	--	0.22 U	1 U	--	0.22 U	1 U	--	6.1	0.51 J	1.3 J
cis-1,3-Dichloropropene	NE	0.4	µg/L	--	0.46 U	1 U	--	0.46 U	1 U	5.6	1 U	1 U	2 U

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-1 ⁽²⁾	MW-1 ⁽²⁾	MW-1 ⁽²⁾	MW-2	MW-2	MW-2	MW-3	MW-3	MW-4	MW-5
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	6/29/2009	8/16/2018	5/13/2019	6/29/2009	8/16/2018	5/13/2019	6/29/2009	5/13/2019	5/14/2019	5/14/2019
	Guidance	Standard											
Cyclohexane	NE	NE	µg/L	--	0.32 U	1 U	--	0.32 U	1 U	--	1 U	1 U	2 U
Dichlorobromomethane	NE	NE	µg/L	--	0.28 U	1 U	--	0.28 U	1 U	--	1 U	1 U	2 U
Dibromomethane	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	NE	5	µg/L	--	0.12 UJ	1 U	--	0.12 UJ	1 U	--	1 U	1 U	2 U
Ethyl ether	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	NE	5	µg/L	--	0.3 U	1 U	--	0.3 U	1 U	--	1 U	1 U	2 U
Ethylene Dibromide	NE	0.0006	µg/L	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	NE	5	µg/L	--	0.34 U	1 U	--	0.34 U	1 U	--	1 U	1 U	2 U
Methyl acetate	NE	NE	µg/L	--	0.31 U	5 U	--	0.31 U	5 U	--	5 U	5 U	10 U
Methyl tert-butyl ether	10	NE	µg/L	--	0.47 U	1 U	--	0.47 U	1 U	--	1 U	1 U	2 U
Methylcyclohexane	NE	NE	µg/L	--	0.26 U	1 U	--	0.26 U	1 U	--	1 U	1 U	2 U
Methylene Chloride	NE	5	µg/L	--	0.32 U	1 U	--	0.32 U	1 U	--	1 U	1 U	1.7 J
Naphthalene	10	NE	µg/L	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
o-Chlorotoluene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
m-Xylene & p-Xylene	NE	5	µg/L	--	0.3 U	1 U	--	0.3 U	1 U	--	1 U	1 U	2 U
o-Xylene	NE	5	µg/L	--	0.36 U	1 U	--	0.36 U	1 U	--	1 U	1 U	2 U
Xylenes, Total	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
p-Chlorotoluene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
p-Diethylbenzene	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
p-Ethyltoluene	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
Styrene	NE	5	µg/L	--	0.42 U	1 U	--	0.42 U	1 U	--	1 U	1 U	2 U
tert-Butylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	NE	5	µg/L	--	0.25 U	1 U	7.4	4.3	6.2	1.6	1 U	5.3	490
Toluene	NE	5	µg/L	--	0.38 U	1 U	--	0.38 U	1 U	--	1 U	1 U	2 U
trans-1,2-Dichloroethene	NE	5	µg/L	--	0.24 U	1 U	--	0.24 U	1 U	--	0.37 J	1 U	2 U
trans-1,3-Dichloropropene	NE	0.4	µg/L	--	0.49 U	1 U	--	0.49 U	1 U	--	1 U	1 U	2 U
trans-1,4-Dichloro-2-butene	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
Trichloroethene	NE	5	µg/L	--	0.31 U	1 U	--	0.31 U	1 U	--	0.6 J	1 U	15
Trichlorofluoromethane	NE	5	µg/L	--	0.14 U	1 U	1.3 J	0.74 J	0.16 J*	5.4	1 U	0.82 J	0.49 J
Vinyl acetate	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	NE	2	µg/L	--	0.17 U	1 U	--	0.17 U	1 U	--	4.6	1 U	2 U

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-1 ⁽²⁾	MW-1 ⁽²⁾	MW-1 ⁽²⁾	MW-2	MW-2	MW-2	MW-3	MW-3	MW-4	MW-5
	TOGS 1.1.1 Guidance	NYS Part 703 ⁽¹⁾ Standard	Units	6/29/2009	8/16/2018	5/13/2019	6/29/2009	8/16/2018	5/13/2019	6/29/2009	5/13/2019	5/14/2019	5/14/2019
Semi-Volatile Organic Compounds (SVOCs)													
1,1'-Biphenyl	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	5	µg/L	--	1.3 U	10 U	--	1.2 U	10 U	--	10 U	10 U	10 U
1,2-Dichlorobenzene	NE	3	µg/L	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	3	µg/L	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	3	µg/L	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane ⁽²⁾		10	µg/L	--	0.016 U	--	--	0.016 U	--	--	1.9	0.25 J*	0.32 J*
2-Chloronaphthalene	10	NE	µg/L	--	1.2 U	10 U	--	1.2 U	10 U	--	10 U	10 U	10 U
2-Chlorophenol	NE	1	µg/L	--	0.38 U	10 U	--	0.38 U	10 U	--	10 U	10 U	10 U
2-Methylnaphthalene	NE	NE	µg/L	--	1.1 U	10 U	--	1.1 U	10 U	--	10 U	10 U	10 U
2-Methylphenol	NE	1	µg/L	--	0.26 U	10 U	--	0.26 U	10 U	--	10 U	10 U	10 U
2-Nitroaniline	NE	5	µg/L	--	0.48 U	10 U	--	0.47 U	10 U	--	10 U	10 U	10 U
2-Nitrophenol	NE	1	µg/L	--	0.76 U	10 U	--	0.75 U	10 U	--	10 U	10 U	10 U
2,2'-oxybis[1-chloropropane]	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	1	µg/L	--	0.43 U	10 U	--	0.42 U	10 U	--	10 U	10 U	10 U
2,4-Dimethylphenol	NE	1	µg/L	--	0.24 U	10 U	--	0.24 U	10 U	--	10 U	10 U	10 U
2,4-Dinitrophenol	NE	1	µg/L	--	15 U	20 U	--	14 U	20 U	--	20 U	20 U	20 U
2,4-Dinitrotoluene	NE	5	µg/L	--	1 U	2 U	--	1 U	2 U	--	2 U	2 U	2 U
2,4,5-Trichlorophenol	NE	1	µg/L	--	0.28 U	10 U	--	0.28 U	10 U	--	10 U	10 U	10 U
2,4,6-Trichlorophenol	NE	1	µg/L	--	0.31 U	10 U	--	0.3 U	10 U	--	10 U	10 U	10 U
2,3,4,6-Tetrachlorophenol	NE	1	µg/L	--	0.76 U	10 U	--	0.75 U	10 U	--	10 U	10 U	10 U
2,6-Dinitrotoluene	NE	5	µg/L	--	0.4 U	2 U	--	0.39 U	2 U	--	2 U	2 U	2 U
3,3'-Dichlorobenzidine	NE	5	µg/L	--	1.5 U	10 U	--	1.4 U	10 U	--	10 U	10 U	10 U
3-Methylphenol/4-Methylphenol	NE	1	µg/L	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NE	5	µg/L	--	0.98 U	10 U	--	0.96 U	10 U	--	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	NE	1	µg/L	--	14 U	20 U	--	13 U	20 U	--	20 U	20 U	20 U
4-Bromophenyl phenyl ether	NE	NE	µg/L	--	0.76 U	10 U	--	0.75 U	10 U	--	10 U	10 U	10 U
4-Chloro-3-methylphenol	NE	1	µg/L	--	0.59 U	10 U	--	0.58 U	10 U	--	10 U	10 U	10 U
4-Chloroaniline	NE	5	µg/L	--	1.9 U	10 U	--	1.9 U	10 U	--	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	NE	NE	µg/L	--	1.3 U	10 U	--	1.3 U	10 U	--	10 U	10 U	10 U
4-Methylphenol	NE	1	µg/L	--	0.24 U	10 U	--	0.24 U	10 U	--	10 U	10 U	3.3 J
4-Nitroaniline	NE	5	µg/L	--	0.55 U	10 U	--	0.54 U	10 U	--	10 U	10 U	10 U
4-Nitrophenol	NE	1	µg/L	--	0.7 U	20 U	--	0.69 U	20 U	--	20 U	20 U	20 U
Acenaphthene	20	NE	µg/L	--	1.1 U	10 U	--	1.1 U	10 U	--	10 U	10 U	10 U
Acenaphthylene	NE	NE	µg/L	--	0.84 U	10 U	--	0.82 U	10 U	--	10 U	10 U	10 U
Acetophenone	NE	NE	µg/L	--	0.81 U	10 U	--	0.79 U	10 U	--	10 U	10 U	10 U
Anthracene	50	NE	µg/L	--	0.65 U	10 U	--	0.63 U	10 U	--	10 U	10 U	10 U
Atrazine	NE	7.5	µg/L	--	1.4 U	2 U	--	1.3 U	2 U	--	2 U	2 U	2 U
Benzaldehyde	NE	NE	µg/L	--	0.6 U	10 U	--	0.59 U	10 U	--	10 U	10 U	10 U
Benzo[a]anthracene	0.002	NE	µg/L	--	0.6 U	1 U	--	0.59 U	1 U	--	1 U	1 U	1 U
Benzo[a]pyrene	NE	0	µg/L	--	0.41 U	1 U	--	0.41 U	1 U	--	1 U	1 U	1 U
Benzo[b]fluoranthene	0.002	NE	µg/L	--	1.2 U	2 U	--	1.1 U	2 U	--	2 U	2 U	2 U
Benzo[g,h,i]perylene	NE	NE	µg/L	--	1.5 U	10 U	--	1.4 U	10 U	--	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002	NE	µg/L	--	0.69 U	1 U	--	0.67 U	1 U	--	1 U	1 U	1 U
Benzoic Acid	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-1 ⁽²⁾	MW-1 ⁽²⁾	MW-1 ⁽²⁾	MW-2	MW-2	MW-2	MW-3	MW-3	MW-4	MW-5
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	6/29/2009	8/16/2018	5/13/2019	6/29/2009	8/16/2018	5/13/2019	6/29/2009	5/13/2019	5/14/2019	5/14/2019
	Guidance	Standard											
Biphenyl	NE	5	µg/L	--	1.2 U	10 U	--	1.2 U	10 U	--	10 U	10 U	10 U
Bis(2-chloroethoxy)methane	NE	5	µg/L	--	0.24 U	10 U	--	0.24 U	10 U	--	10 U	10 U	10 U
Bis(2-chloroethyl)ether	NE	1	µg/L	--	0.3 U	1 U	--	0.3 U	1 U	--	1 U	1 U	1 U
Bis(2-chloroisopropyl)ether	NE	5	µg/L	--	0.64 U	10 U	--	0.63 U	10 U	--	10 U	10 U	10 U
Bis(2-ethylhexyl) phthalate	NE	5	µg/L	--	1.7 U	2 U	--	1.7 U	2 U	--	2 U	2 U	2 U
Butyl benzyl phthalate	50	NE	µg/L	--	0.87 U	10 U	--	0.85 U	10 U	--	10 U	10 U	10 U
Caprolactam	NE	NE	µg/L	--	0.7 U	10 U	--	0.68 U	10 U	--	10 U	4.5 J*	14 *
Carbazole	NE	NE	µg/L	--	0.69 U	10 U	--	0.68 U	10 U	--	10 U	10 U	10 U
Chrysene	0.002	NE	µg/L	--	0.93 U	2 U	--	0.91 U	2 U	--	2 U	2 U	2 U
Dibenz(a,h)anthracene	NE	NE	µg/L	--	0.73 U	1 U	--	0.72 U	1 U	--	1 U	1 U	1 U
Dibenzofuran	NE	NE	µg/L	--	1.1 U	10 U	--	1.1 U	10 U	--	10 U	10 U	10 U
Diethyl phthalate	50	NE	µg/L	--	1 U	10 U	--	0.98 U	10 U	--	10 U	10 U	10 U
Dimethyl phthalate	50	NE	µg/L	--	0.78 U	10 U	--	0.77 U	10 U	--	10 U	10 U	10 U
Di-n-butyl phthalate	NE	50	µg/L	--	0.86 U	10 U	--	0.84 U	10 U	--	10 U	10 U	10 U
Di-n-octyl phthalate	50	NE	µg/L	--	4.9 U	10 U	--	4.8 U	10 U	--	10 U	10 U	10 U
Fluoranthene	50	NE	µg/L	--	0.86 U	10 U	--	0.84 U	10 U	--	10 U	10 U	10 U
Fluorene	50	NE	µg/L	--	0.93 U	10 U	--	0.91 U	10 U	--	10 U	10 U	10 U
Hexachlorobenzene	NE	0.04	µg/L	--	0.4 U	1 U	--	0.4 U	1 U	--	1 U	1 U	1 U
Hexachlorobutadiene	NE	0.5	µg/L	--	0.8 U	1 U	--	0.78 U	1 U	--	1 U	1 U	1 U
Hexachlorocyclopentadiene	NE	5	µg/L	--	1.8 U	10 U	--	1.7 U	10 U	--	10 U	10 U	10 U
Hexachloroethane	NE	5	µg/L	--	1.2 U	2 U	--	1.2 U	2 U	--	2 U	2 U	2 U
Indeno[1,2,3-cd]pyrene	0.002	NE	µg/L	--	1.3 U	2 U	--	1.3 U	2 U	--	2 U	2 U	2 U
Isophorone	50	NE	µg/L	--	0.81 U	10 U	--	0.8 U	10 U	--	10 U	10 U	10 U
Naphthalene	10	NE	µg/L	--	1.2 U	10 U	--	1.1 U	10 U	--	10 U	10 U	10 U
Nitrobenzene	NE	0.4	µg/L	--	0.58 U	1 U	--	0.57 U	1 U	--	1 U	1 U	1 U
N-Nitrosodi-n-propylamine	NE	NE	µg/L	--	0.44 U	1 U	--	0.43 U	1 U	--	1 U	1 U	1 U
N-Nitrosodiphenylamine	50	NE	µg/L	--	0.91 U	10 U	--	0.89 U	10 U	--	10 U	10 U	10 U
NitrosoDiPhenylAmine(NDPA)/DPA	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
P-Chloro-M-Cresol	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	NE	1	µg/L	--	1.5 U	20 U	--	1.4 U	20 U	--	20 U	20 U	20 U
Phenanthrene	50	NE	µg/L	--	0.59 U	10 U	--	0.95 J	0.94 J	--	10 U	10 U	10 U
Phenol	NE	1	µg/L	--	0.3 U	10 U	--	0.29 U	10 U	--	10 U	10 U	1.7 J
Pyrene	50	NE	µg/L	--	1.7 U	10 U	--	1.6 U	10 U	--	10 U	10 U	10 U
Inorganic Constituents													
Aluminum	NE	NE	µg/L	--	--	263	--	--	11400	--	3840	31300	32500
Antimony	NE	3	µg/L	--	--	0.99 J	--	--	0.85 J	--	0.99 J	0.83 J	1.9 J
Arsenic	NE	25	µg/L	--	--	2 U	--	--	0.83 J	--	15.8	10.6	8.2
Barium	NE	1000	µg/L	--	--	53.3	--	--	25.8	--	76.9	305	216
Beryllium	3	NE	µg/L	--	--	0.8 U	--	--	0.67 J	--	0.8 U	1	2
Cadmium	NE	5	µg/L	--	--	4.5	--	--	1.1 J	--	6.8	2 U	2 U
Calcium	NE	NE	µg/L	--	--	50900	--	--	193000	--	128000	161000	144000
Chromium	NE	50	µg/L	--	--	4 U	--	--	4 U	--	13.3	87.6	72.1
Cobalt	NE	NE	µg/L	--	--	4 U	--	--	6.2	--	2.4 J	17.1	15.6
Copper	NE	200	µg/L	--	--	3.9 J	--	--	38.9	--	21.7	47.1	78
Iron	NE	300	µg/L	--	--	522	--	--	6620	--	50800	37800	69700
Lead	NE	25	µg/L	--	--	0.99 J	--	--	1.7	--	5.9	23.9	25.7
Magnesium	3500	NE	µg/L	--	--	14800	--	--	21100	--	30900	63800	28900

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	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	6/29/2009	8/16/2018	5/13/2019	6/29/2009	8/16/2018	5/13/2019	6/29/2009	5/13/2019	5/14/2019	5/14/2019
	Guidance	Standard											
Manganese	NE	300	µg/L	--	--	430	--	--	818	--	984	1010	849
Mercury	NE	0.7	µg/L	--	--	0.2 U	--	--	0.2 U	--	0.2 U	0.16 J	0.12 J
Nickel	NE	100	µg/L	--	--	9	--	--	30.4	--	17.3	41.1	52.6
Potassium	NE	NE	µg/L	--	--	4260	--	--	6930	--	12600	11000	8570
Selenium	NE	10	µg/L	--	--	10 U	--	--	10 U	--	10 U	10 U	10 U
Silver	NE	50	µg/L	--	--	2 U	--	--	2 U	--	2 U	2 U	2 U
Sodium	NE	20000	µg/L	--	--	60900	--	--	24600	--	214000	177000	43900
Thallium	0.5	NE	µg/L	--	--	0.8 U	--	--	0.8 U	--	0.8 U	0.42 J	0.4 J
Vanadium	NE	NE	µg/L	--	--	1.1 J	--	--	4 U	--	13	50.1	80.1
Zinc	2000	NE	µg/L	--	--	16 U	--	--	71.4	--	67.3	135	240
Pesticides													
4,4'-DDD	NE	0.3	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
4,4'-DDE	NE	0.2	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
4,4'-DDT	NE	0.2	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Aldrin	NE	0	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Alpha-BHC	NE	0.01	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Beta-BHC	NE	0.4	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Chlordane, alpha	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chlordane	NE	NE	µg/L	--	--	0.5 U	--	--	0.5 U	--	0.5 U	0.5 U	0.5 U
cis-Chlordane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Delta-BHC	NE	0.04	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Dieldrin	NE	0.004	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Endosulfan I	NE	NE	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Endosulfan II	NE	NE	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Endosulfan sulfate	NE	NE	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Endrin	NE	0	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Endrin aldehyde	NE	5	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Endrin ketone	NE	5	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Heptachlor	NE	0.04	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	NE	0.03	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Lindane	NE	0.05	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Methoxychlor	NE	35	µg/L	--	--	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U
Toxaphene	NE	0.06	µg/L	--	--	0.5 U	--	--	0.5 U	--	0.5 U	0.5 U	0.5 U
trans-Chlordane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)													
Aroclor 1016	NE	0.9	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U
Aroclor 1221	NE	0.9	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U
Aroclor 1232	NE	0.9	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U
Aroclor 1242	NE	0.9	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U
Aroclor 1248	NE	0.9	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U
Aroclor 1254	NE	0.9	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U
Aroclor 1260	NE	0.9	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U
Aroclor 1262	NE	0.9	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U
Aroclor 1268	NE	0.9	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U
Total PCBs	NE	0.09	µg/L	--	--	0.4 U	--	--	0.4 U	--	0.4 U	0.4 U	0.4 U

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	TOGS 1.1.1 Guidance	NYS Part 703 ⁽¹⁾ Standard	Units	6/29/2009	8/16/2018	5/13/2019	6/29/2009	8/16/2018	5/13/2019	6/29/2009	5/13/2019	5/14/2019	5/14/2019
Other Constituents													
Sulfate	NE	250	mg/L	--	--	77.6	--	--	557	--	721	304	837
Alkalinity, bicarbonate (as CaCO3)	NE	NE	mg/L	--	--	138	--	--	11.5	--	165	119	5 U
Alkalinity, carbonate (as CaCO3)	NE	NE	mg/L	--	--	5 U	--	--	5 U	--	5 U	5 U	5 U
Alkalinity, hydroxide (as CaCO3)	NE	NE	mg/L	--	--	5 U	--	--	5 U	--	5 U	5 U	5 U
Alkalinity, total (as CaCO3)	NE	NE	mg/L	--	--	138	--	--	11.5	--	165	119	5 U
Dissolved organic carbon	NE	NE	mg/L	--	--	1.6	--	--	2.2	--	10.2	3.7	5.8
Ethane	NE	NE	mg/L	--	--	7.5 U	--	--	7.5 U	--	7.5 U	7.5 U	7.5 U
Ethene	NE	NE	mg/L	--	--	7 U	--	--	7 U	--	7 U	7 U	7 UF1
Methane	NE	NE	mg/L	--	--	4 U	--	--	4 U	--	93	43	24 F1
Chloride	NE	250	mg/L	--	--	53.7	--	--	6.2	--	291	564	18.3
Nitrate (as N)	NE	10	mg/L	--	--	0.16	--	--	0.032 J	--	0.089 J	0.1	0.067 JF1
Nitrite (as N)	NE	NE	mg/L	--	--	0.0094 J	--	--	0.013 J	--	0.041 J	0.029 J	0.073 JF1
Volatile Fatty Acids													
Acetic acid	NE	NE	mg/L	--	--	2 U	--	--	2 U	--	2 U	2 U	2 U
Butanoic acid	NE	NE	mg/L	--	--	2 U	--	--	2 U	--	2 U	2 U	2 U
Formic acid	NE	NE	mg/L	--	--	2 U	--	--	2 U	--	2 U	2 U	2 U
Lactic acid	NE	NE	mg/L	--	--	2 U	--	--	2 U	--	2 U	2 U	2 U
Propionic acid	NE	NE	mg/L	--	--	2 U	--	--	2 U	--	2 U	2 U	2 UF1
Pyruvic acid	NE	NE	mg/L	--	--	3 U	--	--	3 U	--	3 U	3 U	3 UF1
Total Petroleum Hydrocarbons													
TPH (C10-C28)	NE	NE	mg/L	--	--	0.1 U	--	--	0.18	--	0.18	0.15	1.2

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.

J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.

B - Constituent was found in the blank and the sample.

* - Laboratory Control Sample (LCS) and LCS Duplicate is outside of acceptance limits.

(1) - Notes applicable to NYS Part 703 Standards:

(a) - Any detected concentration for Benzo(a)pyrene, aldrin, or endrin is considered above the Part 703 Standard.

(b) - The standard for the sum of phenolic compounds is 1 µg/L

(c) - The standard of the sum of PCBs is 0.9 µg/L

(2) MW-1 is considered an off-Site upgradient monitoring well.

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-6	MW-7	MW-7 (DUP)	MW-8	MW-9	MW-9 (DUP)	MW-10	VES-1 GW	VES-1 GWA	VES-2 GW
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	5/14/2019	5/14/2019	5/14/2019	3/5/2020	3/5/2020	3/5/2020	3/5/2020	3/1/2014	4/18/2014	3/1/2014
	Guidance	Standard											
<i>Volatile Organic Compounds (VOCs)</i>													
1,1,1-Trichloroethane	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
1,1,1,2-Tetrachloroethane	NE	5	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
1,1,2,2-Tetrachloroethane	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	0.5 U	2.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	--	12 U
1,1,2-Trichloroethane	NE	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	75 U	1.5 U	7.5 U
1,1-Dichloroethane	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	0.98 J	120 U	2.5 U	12 U
1,1-Dichloroethene	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1.5	25 U	0.5 U	2.5 U
1,1-Dichloropropene	NE	NE	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
1,2,3-Trichlorobenzene	NE	NE	µg/L	1 U	1 U	1 U	--	--	--	--	120 U	2.5 U	12 U
1,2,3-Trichloropropane	NE	0.04	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
1,2,4-Trichlorobenzene	10	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
1,2,4-Trimethylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	120 U	2.5 U	12 U
1,2,4,5-Tetramethylbenzene	NE	NE	µg/L	--	--	--	--	--	--	--	--	2 U	--
1,2-Dibromo-3-Chloropropane	NE	0.04	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
1,2-Dibromoethane	NE	0.0006	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	2 U	10 U
1,2-Dichlorobenzene	NE	3	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
1,2-Dichloroethane	NE	0.6	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	8.2	25 U	0.5 U	2.5 U
1,2-Dichloropropane	NE	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	5 U
1,3-Dichlorobenzene	NE	3	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
1,3-Dichloropropane	NE	5	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
1,3-Dichloropropene, Total	NE	0.4	µg/L	--	--	--	--	--	--	--	25 U	--	2.5 U
1,3,5-Trimethylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	120 U	2.5 U	12 U
1,4-Dichlorobenzene	NE	3	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
1,4-Dioxane ⁽²⁾	10	NE	µg/L	50 U	50 U	50 U	--	--	--	--	12000 U	250 U	1200 U
2-Butanone (MEK)	50	NE	µg/L	5 U	5 U	5 U	10 U	10 U	10 U	10 U	250 U	5 U	25 U
2-Hexanone	50	NE	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	25 U
2,2-Dichloropropane	NE	5	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
4-Methyl-2-pentanone (MIBK)	NE	NE	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	250 U	5 U	25 U
Acetone	50	NE	µg/L	5.1	6.9	7	10 U	10 U	10 U	10 U	250 U	5 U	40
Acrylonitrile	NE	5	µg/L	--	--	--	--	--	--	--	--	5 U	--
Benzene	NE	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	9.1	10 U	0.51	270
Bromobenzene	NE	5	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
Bromochloromethane	NE	5	µg/L	1 U	1 U	1 U	--	--	--	--	120 U	2.5 U	12 U
Bromodichloromethane	50	NE	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	0.5 U	2.5 U
Bromoform	NE	NE	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	2 U	10 U
Bromomethane	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
Carbon disulfide	60	60	µg/L	2.9	1 U	1 U	1 U	1 U	1 U	1 U	680	1.4 J	640
Carbon tetrachloride	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	0.5 U	2.5 U
Chlorobenzene	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	4.9	120 U	2 J	24
Chlorobromomethane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chloroethane	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
Chloroform	NE	7	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
Chloromethane	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
cis-1,2-Dichloroethene	NE	5	µg/L	0.28 J	1 U	1 U	1 U	1 U	1 U	7.4	120 U	17	12 U
cis-1,3-Dichloropropene	NE	0.4	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	0.5 U	2.5 U

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-6	MW-7	MW-7 (DUP)	MW-8	MW-9	MW-9 (DUP)	MW-10	VES-1 GW	VES-1 GWA	VES-2 GW
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	5/14/2019	5/14/2019	5/14/2019	3/5/2020	3/5/2020	3/5/2020	3/5/2020	3/1/2014	4/18/2014	3/1/2014
	Guidance	Standard											
Cyclohexane	NE	NE	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	500 U	--	50 U
Dichlorobromomethane	NE	NE	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	0.5 U	2.5 U
Dibromomethane	NE	5	µg/L	--	--	--	--	--	--	--	--	5 U	--
Dichlorodifluoromethane	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	250 U	5 U	25 U
Ethyl ether	NE	NE	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
Ethylbenzene	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
Ethylene Dibromide	NE	0.0006	µg/L	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	NE	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
Isopropylbenzene	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
Methyl acetate	NE	NE	µg/L	5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U	100 U	--	10 U
Methyl tert-butyl ether	10	NE	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	500 U	2.5 U	50 U
Methylcyclohexane	NE	NE	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	--	12 U
Methylene Chloride	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
Naphthalene	10	NE	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
n-Butylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	120 U	2.5 U	12 U
n-Propylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	120 U	2.5 U	12 U
o-Chlorotoluene	NE	5	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
m-Xylene & p-Xylene	NE	5	µg/L	1 U	1 U	1 U	2 U	2 U	2 U	2 U	120 U	2.5 U	12 U
o-Xylene	NE	5	µg/L	1 U	1 U	1 U	--	--	--	--	120 U	2.5 U	12 U
Xylenes, Total	NE	5	µg/L	--	--	--	--	--	--	--	120 U	--	12 U
p-Chlorotoluene	NE	5	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
p-Diethylbenzene	NE	NE	µg/L	--	--	--	--	--	--	--	--	2 U	--
p-Ethyltoluene	NE	NE	µg/L	--	--	--	--	--	--	--	--	2 U	--
p-Isopropyltoluene	NE	5	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
sec-Butylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	120 U	2.5 U	12 U
Styrene	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
tert-Butylbenzene	NE	5	µg/L	--	--	--	--	--	--	--	120 U	2.5 U	12 U
Tetrachloroethene	NE	5	µg/L	0.61 J	1 U	1 U	1 U	1 U	1 U	1 U	2000	4	12
Toluene	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	12 U
trans-1,2-Dichloroethene	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.1 J	12 U
trans-1,3-Dichloropropene	NE	0.4	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	0.5 U	2.5 U
trans-1,4-Dichloro-2-butene	NE	5	µg/L	--	--	--	--	--	--	--	--	2.5 U	--
Trichloroethene	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	0.91 J	25 U	0.19 J	5
Trichlorofluoromethane	NE	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	120 U	2.5 U	5.6 J
Vinyl acetate	NE	NE	µg/L	--	--	--	--	--	--	--	--	5 U	--
Vinyl chloride	NE	2	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	9.3	50 U	1 U	9.4

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-6	MW-7	MW-7 (DUP)	MW-8	MW-9	MW-9 (DUP)	MW-10	VES-1 GW	VES-1 GWA	VES-2 GW
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	5/14/2019	5/14/2019	5/14/2019	3/5/2020	3/5/2020	3/5/2020	3/5/2020	3/1/2014	4/18/2014	3/1/2014
	Guidance	Standard											
Semi-Volatile Organic Compounds (SVOCs)													
1,1'-Biphenyl	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	5	µg/L	10 U	10 U	10 U	--	--	--	--	--	--	70 U
1,2-Dichlorobenzene	NE	3	µg/L	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NE	3	µg/L	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NE	3	µg/L	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane ⁽²⁾		10	µg/L	0.26 J*	0.31 J*	0.22 J*	0.44	0.37	0.36	37 J	--	--	--
2-Chloronaphthalene	10	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	14 U
2-Chlorophenol	NE	1	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	14 U
2-Methylnaphthalene	NE	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	50
2-Methylphenol	NE	1	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
2-Nitroaniline	NE	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	35 U
2-Nitrophenol	NE	1	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	70 U
2,2'-oxybis[1-chloropropane]	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	1	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
2,4-Dimethylphenol	NE	1	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
2,4-Dinitrophenol	NE	1	µg/L	20 U	20 U	20 U	10 U	10 U	10 U	10 U	--	--	140 U
2,4-Dinitrotoluene	NE	5	µg/L	2 U	2 U	2 U	5 U	5 U	5.2 U	5 U	--	--	35 U
2,4,5-Trichlorophenol	NE	1	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
2,4,6-Trichlorophenol	NE	1	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
2,3,4,6-Tetrachlorophenol	NE	1	µg/L	10 U	10 U	10 U	--	--	--	--	--	--	35 U
2,6-Dinitrotoluene	NE	5	µg/L	2 U	2 U	2 U	5 U	5 U	5.2 U	5 U	--	--	35 U
3,3'-Dichlorobenzidine	NE	5	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
3-Methylphenol/4-Methylphenol	NE	1	µg/L	--	--	--	--	--	--	--	--	--	16 J
3-Nitroaniline	NE	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	35 U
4,6-Dinitro-2-methylphenol	NE	1	µg/L	20 U	20 U	20 U	10 U	10 U	10 U	10 U	--	--	5.6 U
4-Bromophenyl phenyl ether	NE	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	14 U
4-Chloro-3-methylphenol	NE	1	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	--
4-Chloroaniline	NE	5	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
4-Chlorophenyl phenyl ether	NE	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	14 U
4-Methylphenol	NE	1	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	--
4-Nitroaniline	NE	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	35 U
4-Nitrophenol	NE	1	µg/L	20 U	20 U	20 U	10 U	10 U	10 U	10 U	--	--	70 U
Acenaphthene	20	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	80
Acenaphthylene	NE	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	20
Acetophenone	NE	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Anthracene	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	120
Atrazine	NE	7.5	µg/L	2 U	2 U	2 U	5 U	5 U	5.2 U	5 U	--	--	21 U
Benzaldehyde	NE	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Benzo[a]anthracene	0.002	NE	µg/L	1 U	1 U	1 U	5 U	5 U	5.2 U	5 U	--	--	51
Benzo[a]pyrene	NE	0	µg/L	1 U	1 U	1 U	5 U	5 U	5.2 U	5 U	--	--	48
Benzo[b]fluoranthene	0.002	NE	µg/L	2 U	2 U	2 U	5 U	5 U	5.2 U	5 U	--	--	40
Benzo[g,h,i]perylene	NE	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	64
Benzo[k]fluoranthene	0.002	NE	µg/L	1 U	1 U	1 U	5 U	5 U	5.2 U	5 U	--	--	38
Benzoic Acid	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--

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REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-6	MW-7	MW-7 (DUP)	MW-8	MW-9	MW-9 (DUP)	MW-10	VES-1 GW	VES-1 GWA	VES-2 GW
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	5/14/2019	5/14/2019	5/14/2019	3/5/2020	3/5/2020	3/5/2020	3/5/2020	3/1/2014	4/18/2014	3/1/2014
	Guidance	Standard											
Biphenyl	NE	5	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	17
Bis(2-chloroethoxy)methane	NE	5	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Bis(2-chloroethyl)ether	NE	1	µg/L	1 U	1 U	1 U	5 U	5 U	5.2 U	5 U	--	--	14 U
Bis(2-chloroisopropyl)ether	NE	5	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	14 U
Bis(2-ethylhexyl) phthalate	NE	5	µg/L	2 U	2 U	2 U	5 U	5 U	5.2 U	5 U	--	--	21 U
Butyl benzyl phthalate	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Caprolactam	NE	NE	µg/L	10 U	3.2 J*	10 U	5 U	5 U	5.2 U	5 U	--	--	55 J
Carbazole	NE	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	52
Chrysene	0.002	NE	µg/L	2 U	2 U	2 U	5 U	5 U	5.2 U	5 U	--	--	130
Dibenz(a,h)anthracene	NE	NE	µg/L	1 U	1 U	1 U	5 U	5 U	5.2 U	5 U	--	--	8.2
Dibenzofuran	NE	NE	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	70
Diethyl phthalate	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Dimethyl phthalate	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Di-n-butyl phthalate	NE	50	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Di-n-octyl phthalate	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Fluoranthene	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	340
Fluorene	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	--
Hexachlorobenzene	NE	0.04	µg/L	1 U	1 U	1 U	5 U	5 U	5.2 U	5 U	--	--	0.11 U
Hexachlorobutadiene	NE	0.5	µg/L	1 U	1 U	1 U	5 U	5 U	5.2 U	5 U	--	--	5.6 U
Hexachlorocyclopentadiene	NE	5	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	140 U
Hexachloroethane	NE	5	µg/L	2 U	2 U	2 U	5 U	5 U	5.2 U	5 U	--	--	14 U
Indeno[1,2,3-cd]pyrene	0.002	NE	µg/L	2 U	2 U	2 U	5 U	5 U	5.2 U	5 U	--	--	32
Isophorone	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Naphthalene	10	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	1.1 J	--	--	320
Nitrobenzene	NE	0.4	µg/L	1 U	1 U	1 U	5 U	5 U	5.2 U	5 U	--	--	14 U
N-Nitrosodi-n-propylamine	NE	NE	µg/L	1 U	1 U	1 U	5 U	5 U	5.2 U	5 U	--	--	35 U
N-Nitrosodiphenylamine	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	14 U
P-Chloro-M-Cresol	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	14 U
Pentachlorophenol	NE	1	µg/L	20 U	20 U	20 U	10 U	10 U	10 U	10 U	--	--	1.7 U
Phenanthrene	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	--
Phenol	NE	1	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	35 U
Pyrene	50	NE	µg/L	10 U	10 U	10 U	5 U	5 U	5.2 U	5 U	--	--	--
Inorganic Constituents													
Aluminum	NE	NE	µg/L	166000	4690	4510	3300	4500	4400	2100	--	--	--
Antimony	NE	3	µg/L	2 J	0.96 J	0.83 J	20 U	20 U	20 U	20 U	--	--	--
Arsenic	NE	25	µg/L	82.4	3.2	3.2	15 U	15 U	15 U	6.1 J	--	--	--
Barium	NE	1000	µg/L	2480	170	166	46	150	140	120	--	--	--
Beryllium	3	NE	µg/L	4.9	0.8 U	0.8 U	0.34 J	2 U	2 U	2 U	--	--	--
Cadmium	NE	5	µg/L	10 U	2 U	2 U	2 U	0.84 J	0.85 J	0.66 J	--	--	--
Calcium	NE	NE	µg/L	262000	99500	99800	231000	170000	167000	169000	--	--	--
Chromium	NE	50	µg/L	481	13.5	13	8.3	10	10	5.4	--	--	--
Cobalt	NE	NE	µg/L	111	2.9 J	2.7 J	4.1	2.5 J	2.3 J	2.7 J	--	--	--
Copper	NE	200	µg/L	585	14.8	12.7	2.5 J	7.4 J	6.6 J	4.2 J	--	--	--
Iron	NE	300	µg/L	300000	12400	12200	95100	13200	12800	13600	--	--	--
Lead	NE	25	µg/L	425	5.7	5.7	8.2 J	5.9 J	4.4 J	5.1 J	--	--	--
Magnesium	3500	NE	µg/L	196000	37700	36700	58800	86200	84900	66600	--	--	--

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-6	MW-7	MW-7 (DUP)	MW-8	MW-9	MW-9 (DUP)	MW-10	VES-1 GW	VES-1 GWA	VES-2 GW
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	5/14/2019	5/14/2019	5/14/2019	3/5/2020	3/5/2020	3/5/2020	3/5/2020	3/1/2014	4/18/2014	3/1/2014
	Guidance	Standard											
Manganese	NE	300	µg/L	3820	983	968	1900	1200	1100	1100	--	--	--
Mercury	NE	0.7	µg/L	1.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	--
Nickel	NE	100	µg/L	349	9.5	9.2	13	7.4 J	6.7 J	7.3 J	--	--	--
Potassium	NE	NE	µg/L	40100	12900	12900	12000	11400	11100	163000	--	--	--
Selenium	NE	10	µg/L	50 U	10 U	10 U	25 U	25 U	25 U	25 U	--	--	--
Silver	NE	50	µg/L	10 U	2 U	2 U	6 U	6 U	6 U	6 U	--	--	--
Sodium	NE	20000	µg/L	406000	56600	54400	56100	397000	389000	560000	--	--	--
Thallium	0.5	NE	µg/L	2.7 J	0.8 U	0.8 U	20 U	20 U	20 U	20 U	--	--	--
Vanadium	NE	NE	µg/L	454	14.2	13.8	11	14	13	4.8 J	--	--	--
Zinc	2000	NE	µg/L	1660	28.8	28.1	150	26	24	28	--	--	--
Pesticides													
4,4'-DDD	NE	0.3	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
4,4'-DDE	NE	0.2	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
4,4'-DDT	NE	0.2	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.038 J+	--	--	--
Aldrin	NE	0	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Alpha-BHC	NE	0.01	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Beta-BHC	NE	0.4	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Chlordane, alpha	NE	NE	µg/L	--	--	--	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Chlordane, beta	NE	NE	µg/L	--	--	--	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Chlordane	NE	NE	µg/L	0.5 U	0.5 U	0.5 U	--	--	--	--	--	--	--
cis-Chlordane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Delta-BHC	NE	0.04	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Dieldrin	NE	0.004	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Endosulfan I	NE	NE	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Endosulfan II	NE	NE	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Endosulfan sulfate	NE	NE	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.046 J	--	--	--
Endrin	NE	0	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Endrin aldehyde	NE	5	µg/L	0.02 U	0.02 U	0.02 U	0.019 J-	0.05 U	0.05 U	0.05 U	--	--	--
Endrin ketone	NE	5	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.032 J+	--	--	--
Heptachlor	NE	0.04	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.042 J-	--	--	--
Heptachlor epoxide	NE	0.03	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Lindane	NE	0.05	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.0081 J	0.05 U	0.05 U	--	--	--
Methoxychlor	NE	35	µg/L	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--
Toxaphene	NE	0.06	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	--
trans-Chlordane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)													
Aroclor 1016	NE	0.9	µg/L	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	--
Aroclor 1221	NE	0.9	µg/L	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	--
Aroclor 1232	NE	0.9	µg/L	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	--
Aroclor 1242	NE	0.9	µg/L	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	--
Aroclor 1248	NE	0.9	µg/L	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	--
Aroclor 1254	NE	0.9	µg/L	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	--
Aroclor 1260	NE	0.9	µg/L	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	--
Aroclor 1262	NE	0.9	µg/L	0.4 U	0.4 U	0.4 U	--	--	--	--	--	--	--
Aroclor 1268	NE	0.9	µg/L	0.4 U	0.4 U	0.4 U	--	--	--	--	--	--	--
Total PCBs	NE	0.09	µg/L	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	--

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			MW-6	MW-7	MW-7 (DUP)	MW-8	MW-9	MW-9 (DUP)	MW-10	VES-1 GW	VES-1 GWA	VES-2 GW
	TOGS 1.1.1 Guidance	NYS Part 703 ⁽¹⁾ Standard	Units	5/14/2019	5/14/2019	5/14/2019	3/5/2020	3/5/2020	3/5/2020	3/5/2020	3/1/2014	4/18/2014	3/1/2014
Other Constituents													
Sulfate	NE	250	mg/L	203	81.7	89	836	203	215	--	--	--	--
Alkalinity, bicarbonate (as CaCO3)	NE	NE	mg/L	207	167	167	5 U	391	384	--	--	--	--
Alkalinity, carbonate (as CaCO3)	NE	NE	mg/L	5 U	5 U	5 U	5 U	5 U	5 U	--	--	--	--
Alkalinity, hydroxide (as CaCO3)	NE	NE	mg/L	5 U	5 U	5 U	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	NE	NE	mg/L	207	167	167	5 U	321	315	--	--	--	--
Dissolved organic carbon	NE	NE	mg/L	4.8	1.8	1.7	1.5	1.7	1.7	--	--	--	--
Ethane	NE	NE	mg/L	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	--	--	--	--
Ethene	NE	NE	mg/L	7 U	7 U	7 U	7 U	7 U	7 U	--	--	--	--
Methane	NE	NE	mg/L	48	4.3	10	29	23	22	--	--	--	--
Chloride	NE	250	mg/L	1090	201	207	173	946	928	--	--	--	--
Nitrate (as N)	NE	10	mg/L	0.1 U	0.1 U	0.1 U	0.05 UJ	0.05 U	0.05 U	--	--	--	--
Nitrite (as N)	NE	NE	mg/L	0.0084 J	0.009 J	0.0084 J	--	--	--	--	--	--	--
Volatile Fatty Acids													
Acetic acid	NE	NE	mg/L	2 U	2 U	2 U	5 U	5 U	5 U	--	--	--	--
Butanoic acid	NE	NE	mg/L	2 U	2 U	2 U	5 U	5 U	5 U	--	--	--	--
Formic acid	NE	NE	mg/L	2 U	2 U	2 U	5 U	5 U	5 U	--	--	--	--
Lactic acid	NE	NE	mg/L	2 U	2 U	2 U	5 U	5 U	5 U	--	--	--	--
Propionic acid	NE	NE	mg/L	2 U	2 U	2 U	5 U	5 U	5 U	--	--	--	--
Pyruvic acid	NE	NE	mg/L	3 U	3 U	3 U	7.5 U	7.5 U	7.5 U	--	--	--	--
Total Petroleum Hydrocarbons													
TPH (C10-C28)	NE	NE	mg/L	0.1 U	0.1 U	0.1	0.5 U	0.5 U	0.5 U	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
B - Constituent was found in the blank and the sample.
* - Laboratory Control Sample (LCS) and LCS Duplicate is outside of acceptance limits.
(1) - Notes applicable to NYS Part 703 Standards:
(a) - Any detected concentration for Benzo(a)pyrene, aldrin, or endrin is considered above the Part 703 Standard.
(b) - The standard for the sum of phenolic compounds is 1 µg/L
(c) - The standard of the sum of PCBs is 0.9 µg/L
(2) MW-1 is considered an off-Site upgradient monitoring well.



TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			VES-3 GW	VES-4 GW	VES-5 GW	VES-9 GW	VES-10 GW	VES-11 GW	VES-12 GW	VES-13 GW	VES-14 GW	VES-15 GW
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	3/1/2014	3/1/2014	3/1/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/17/2014	4/18/2014
	Guidance	Standard											
<i>Volatile Organic Compounds (VOCs)</i>													
1,1,1-Trichloroethane	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,1,1,2-Tetrachloroethane	NE	5	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,1,2,2-Tetrachloroethane	NE	5	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	5	µg/L	2.5 U	12 U	2.5 U	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NE	1	µg/L	1.5 U	7.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	--	--
1,1-Dichloroethane	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,1-Dichloroethene	NE	5	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--
1,1-Dichloropropene	NE	NE	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,2,3-Trichlorobenzene	NE	NE	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,2,3-Trichloropropane	NE	0.04	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,2,4-Trichlorobenzene	10	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,2,4-Trimethylbenzene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,2,4,5-Tetramethylbenzene	NE	NE	µg/L	--	--	--	2 U	2 U	2 U	2 U	2 U	--	--
1,2-Dibromo-3-Chloropropane	NE	0.04	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,2-Dibromoethane	NE	0.0006	µg/L	2 U	10 U	2 U	2 U	2 U	2 U	2 U	2 U	--	--
1,2-Dichlorobenzene	NE	3	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,2-Dichloroethane	NE	0.6	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.32 J	0.5 U	0.5 U	0.49 J	--	--
1,2-Dichloropropane	NE	1	µg/L	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	--	--
1,3-Dichlorobenzene	NE	3	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,3-Dichloropropane	NE	5	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,3-Dichloropropene, Total	NE	0.4	µg/L	0.5 U	2.5 U	0.5 U	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,4-Dichlorobenzene	NE	3	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
1,4-Dioxane ⁽²⁾	10	NE	µg/L	250 U	1200 U	250 U	250 U	250 U	250 U	250 U	250 U	--	--
2-Butanone (MEK)	50	NE	µg/L	5 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	--	--
2-Hexanone	50	NE	µg/L	5 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	--	--
2,2-Dichloropropane	NE	5	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
4-Methyl-2-pentanone (MIBK)	NE	NE	µg/L	5 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	--	--
Acetone	50	NE	µg/L	5 U	25 U	5 U	5 U	1.3 J	5 U	5 U	1.3 J	--	--
Acrylonitrile	NE	5	µg/L	--	--	--	5 U	5 U	5 U	5 U	5 U	--	--
Benzene	NE	1	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.16 J	--	--
Bromobenzene	NE	5	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Bromochloromethane	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Bromodichloromethane	50	NE	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--
Bromoform	NE	NE	µg/L	2 U	10 U	2 U	2 U	2 U	2 U	2 U	2 U	--	--
Bromomethane	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Carbon disulfide	60	60	µg/L	15	2600	5 U	5 U	5 U	5 U	1.5 J	5 U	--	--
Carbon tetrachloride	NE	5	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--
Chlorobenzene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.9	--	--
Chlorobromomethane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chloroethane	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Chloroform	NE	7	µg/L	2.5 U	12 U	2.5 U	2.5 U	1.4 J	2.5	2.5 U	2.5 U	--	--
Chloromethane	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
cis-1,2-Dichloroethene	NE	5	µg/L	2.5 U	12 U	2.5 U	0.87 J	2.5 U	2.5 U	2.5 U	2.5 U	--	--
cis-1,3-Dichloropropene	NE	0.4	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--

TABLE 6a
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ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			VES-3 GW	VES-4 GW	VES-5 GW	VES-9 GW	VES-10 GW	VES-11 GW	VES-12 GW	VES-13 GW	VES-14 GW	VES-15 GW
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	3/1/2014	3/1/2014	3/1/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/17/2014	4/18/2014
	Guidance	Standard											
Cyclohexane	NE	NE	µg/L	10 U	50 U	10 U	--	--	--	--	--	--	--
Dichlorobromomethane	NE	NE	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--
Dibromomethane	NE	5	µg/L	--	--	--	5 U	5 U	5 U	5 U	5 U	--	--
Dichlorodifluoromethane	NE	5	µg/L	5 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	--	--
Ethyl ether	NE	NE	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Ethylbenzene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Ethylene Dibromide	NE	0.0006	µg/L	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	NE	NE	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Isopropylbenzene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Methyl acetate	NE	NE	µg/L	2 U	10 U	2 U	--	--	--	--	--	--	--
Methyl tert-butyl ether	10	NE	µg/L	10 U	50 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Methylcyclohexane	NE	NE	µg/L	2.5 U	12 U	2.5 U	--	--	--	--	--	--	--
Methylene Chloride	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Naphthalene	10	NE	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
n-Butylbenzene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
n-Propylbenzene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
o-Chlorotoluene	NE	5	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
m-Xylene & p-Xylene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
o-Xylene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Xylenes, Total	NE	5	µg/L	2.5 U	12 U	2.5 U	--	--	--	--	--	--	--
p-Chlorotoluene	NE	5	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
p-Diethylbenzene	NE	NE	µg/L	--	--	--	2 U	2 U	2 U	2 U	2 U	--	--
p-Ethyltoluene	NE	NE	µg/L	--	--	--	2 U	2 U	2 U	2 U	2 U	--	--
p-Isopropyltoluene	NE	5	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
sec-Butylbenzene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Styrene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
tert-Butylbenzene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Tetrachloroethene	NE	5	µg/L	3.4	2.5 U	0.98	0.5 U	7.4	13	0.5 U	0.5 U	--	--
Toluene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
trans-1,2-Dichloroethene	NE	5	µg/L	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	3.4	--	--
trans-1,3-Dichloropropene	NE	0.4	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--
trans-1,4-Dichloro-2-butene	NE	5	µg/L	--	--	--	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	--	--
Trichloroethene	NE	5	µg/L	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.27 J	0.5 U	0.2 J	--	--
Trichlorofluoromethane	NE	5	µg/L	22 U	12 U	2.5 U	2.5 U	3.5	4.6	2.5 U	2.5 U	--	--
Vinyl acetate	NE	NE	µg/L	--	--	--	5 U	5 U	5 U	5 U	5 U	--	--
Vinyl chloride	NE	2	µg/L	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2.3	--	--

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			VES-3 GW	VES-4 GW	VES-5 GW	VES-9 GW	VES-10 GW	VES-11 GW	VES-12 GW	VES-13 GW	VES-14 GW	VES-15 GW
	TOGS 1.1.1 Guidance	NYS Part 703 ⁽¹⁾ Standard	Units	3/1/2014	3/1/2014	3/1/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/17/2014	4/18/2014
Semi-Volatile Organic Compounds (SVOCs)													
1,1'-Biphenyl	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	NE	NE	µg/L	--	--	--	--	--	5 U	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	5	µg/L	--	10 U	13 U	--	--	10 U	--	--	--	--
1,2-Dichlorobenzene	NE	3	µg/L	--	--	--	--	--	2 U	--	--	--	--
1,3-Dichlorobenzene	NE	3	µg/L	--	--	--	--	--	2 U	--	--	--	--
1,4-Dichlorobenzene	NE	3	µg/L	--	--	--	--	--	2 U	--	--	--	--
1,4-Dioxane ⁽²⁾		10	µg/L	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	10	NE	µg/L	--	2 U	2.5 U	--	--	0.2 U	--	--	--	--
2-Chlorophenol	NE	1	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
2-Methylnaphthalene	NE	NE	µg/L	--	2 U	2.5 U	--	--	0.2 U	--	--	--	--
2-Methylphenol	NE	1	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
2-Nitroaniline	NE	5	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
2-Nitrophenol	NE	1	µg/L	--	10 U	13 U	--	--	10 U	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	NE	1	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
2,4-Dimethylphenol	NE	1	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
2,4-Dinitrophenol	NE	1	µg/L	--	20 U	25 U	--	--	20 U	--	--	--	--
2,4-Dinitrotoluene	NE	5	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
2,4,5-Trichlorophenol	NE	1	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
2,4,6-Trichlorophenol	NE	1	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	1	µg/L	--	5 U	6.3 U	--	--	--	--	--	--	--
2,6-Dinitrotoluene	NE	5	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
3,3'-Dichlorobenzidine	NE	5	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
3-Methylphenol/4-Methylphenol	NE	1	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
3-Nitroaniline	NE	5	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
4,6-Dinitro-2-methylphenol	NE	1	µg/L	--	5 U	1.3 U	--	--	10 U	--	--	--	--
4-Bromophenyl phenyl ether	NE	NE	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
4-Chloro-3-methylphenol	NE	1	µg/L	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	NE	5	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
4-Chlorophenyl phenyl ether	NE	NE	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
4-Methylphenol	NE	1	µg/L	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NE	5	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
4-Nitrophenol	NE	1	µg/L	--	10 U	13 U	--	--	10 U	--	--	--	--
Acenaphthene	20	NE	µg/L	--	2 U	2.5 U	--	--	0.09 J	--	--	--	--
Acenaphthylene	NE	NE	µg/L	--	2 U	2.5 U	--	--	0.2 U	--	--	--	--
Acetophenone	NE	NE	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
Anthracene	50	NE	µg/L	--	2 U	2.5 U	--	--	0.2 U	--	--	--	--
Atrazine	NE	7.5	µg/L	--	3 U	3.8 U	--	--	--	--	--	--	--
Benzaldehyde	NE	NE	µg/L	--	5 U	6.3 U	--	--	--	--	--	--	--
Benzo[a]anthracene	0.002	NE	µg/L	--	0.5 U	0.13 U	--	--	0.2 U	--	--	--	--
Benzo[a]pyrene	NE	0	µg/L	--	0.5 U	0.13 U	--	--	0.2 U	--	--	--	--
Benzo[b]fluoranthene	0.002	NE	µg/L	--	1 U	0.25 U	--	--	0.2 U	--	--	--	--
Benzo[g,h,i]perylene	NE	NE	µg/L	--	2 U	2.5 U	--	--	0.2 U	--	--	--	--
Benzo[k]fluoranthene	0.002	NE	µg/L	--	1 U	0.25 U	--	--	0.2 U	--	--	--	--
Benzoic Acid	NE	NE	µg/L	--	--	--	--	--	50 U	--	--	--	--
Benzyl Alcohol	NE	NE	µg/L	--	--	--	--	--	2 U	--	--	--	--

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TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			VES-3 GW	VES-4 GW	VES-5 GW	VES-9 GW	VES-10 GW	VES-11 GW	VES-12 GW	VES-13 GW	VES-14 GW	VES-15 GW
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	3/1/2014	3/1/2014	3/1/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/17/2014	4/18/2014
	Guidance	Standard											
Biphenyl	NE	5	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
Bis(2-chloroethoxy)methane	NE	5	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
Bis(2-chloroethyl)ether	NE	1	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
Bis(2-chloroisopropyl)ether	NE	5	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
Bis(2-ethylhexyl) phthalate	NE	5	µg/L	--	3 U	3.8 U	--	--	3 U	--	--	--	--
Butyl benzyl phthalate	50	NE	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
Caprolactam	NE	NE	µg/L	--	4.8 U	32	--	--	--	--	--	--	--
Carbazole	NE	NE	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
Chrysene	0.002	NE	µg/L	--	2 U	2.5 U	--	--	0.2 U	--	--	--	--
Dibenz(a,h)anthracene	NE	NE	µg/L	--	1 U	0.25 U	--	--	0.2 U	--	--	--	--
Dibenzofuran	NE	NE	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
Diethyl phthalate	50	NE	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
Dimethyl phthalate	50	NE	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
Di-n-butyl phthalate	NE	50	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
Di-n-octyl phthalate	50	NE	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
Fluoranthene	50	NE	µg/L	--	2 U	2.5 U	--	--	0.09 J	--	--	--	--
Fluorene	50	NE	µg/L	--	2 U	2.5 U	--	--	0.07 J	--	--	--	--
Hexachlorobenzene	NE	0.04	µg/L	--	0.1 U	0.03 U	--	--	0.8 U	--	--	--	--
Hexachlorobutadiene	NE	0.5	µg/L	--	5 U	1.3 U	--	--	0.5 U	--	--	--	--
Hexachlorocyclopentadiene	NE	5	µg/L	--	20 U	25 U	--	--	20 U	--	--	--	--
Hexachloroethane	NE	5	µg/L	--	2 U	2.5 U	--	--	0.8 U	--	--	--	--
Indeno[1,2,3-cd]pyrene	0.002	NE	µg/L	--	1 U	0.25 U	--	--	0.2 U	--	--	--	--
Isophorone	50	NE	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
Naphthalene	10	NE	µg/L	--	2 U	2.5 U	--	--	0.2 U	--	--	--	--
Nitrobenzene	NE	0.4	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
N-Nitrosodi-n-propylamine	NE	NE	µg/L	--	5 U	6.3 U	--	--	5 U	--	--	--	--
N-Nitrosodiphenylamine	50	NE	µg/L	--	--	--	--	--	--	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	NE	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
P-Chloro-M-Cresol	NE	NE	µg/L	--	2 U	2.5 U	--	--	2 U	--	--	--	--
Pentachlorophenol	NE	1	µg/L	--	1.5 U	0.38 U	--	--	0.8 U	--	--	--	--
Phenanthrene	50	NE	µg/L	--	2 U	2.5 U	--	--	0.2 U	--	--	--	--
Phenol	NE	1	µg/L	--	5	6.3 U	--	--	5 U	--	--	--	--
Pyrene	50	NE	µg/L	--	2 U	2.5 U	--	--	0.08 J	--	--	--	--
Inorganic Constituents													
Aluminum	NE	NE	µg/L	--	--	--	--	--	--	4.89 J	--	--	66
Antimony	NE	3	µg/L	--	--	--	--	--	--	0.17 J	--	--	0.58 J
Arsenic	NE	25	µg/L	--	--	--	--	--	--	1.66	--	--	0.5
Barium	NE	1000	µg/L	--	--	--	--	--	--	70.4	--	--	21.61
Beryllium	3	NE	µg/L	--	--	--	--	--	--	0.5 U	--	--	0.5 U
Cadmium	NE	5	µg/L	--	--	--	--	--	--	0.2 U	--	--	0.12 J
Calcium	NE	NE	µg/L	--	--	--	--	--	--	188000	--	--	174000
Chromium	NE	50	µg/L	--	--	--	--	--	--	0.36 J	--	--	0.58 J
Cobalt	NE	NE	µg/L	--	--	--	--	--	--	0.2 J	--	--	1.14
Copper	NE	200	µg/L	--	--	--	--	--	--	1.07	--	--	2.15
Iron	NE	300	µg/L	--	--	--	--	--	--	6550	--	--	351
Lead	NE	25	µg/L	--	--	--	--	--	--	1 U	--	--	0.31 J
Magnesium	3500	NE	µg/L	--	--	--	--	--	--	96200	--	--	38200

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TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			VES-3 GW	VES-4 GW	VES-5 GW	VES-9 GW	VES-10 GW	VES-11 GW	VES-12 GW	VES-13 GW	VES-14 GW	VES-15 GW
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	3/1/2014	3/1/2014	3/1/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/17/2014	4/18/2014
	Guidance	Standard											
Manganese	NE	300	µg/L	--	--	--	--	--	--	1050	--	--	127.7
Mercury	NE	0.7	µg/L	--	--	--	--	--	--	0.2 U	--	--	0.2 U
Nickel	NE	100	µg/L	--	--	--	--	--	--	1.74	--	--	7.96
Potassium	NE	NE	µg/L	--	--	--	--	--	--	8820	--	--	10900
Selenium	NE	10	µg/L	--	--	--	--	--	--	1.01 J	--	--	1.77 J
Silver	NE	50	µg/L	--	--	--	--	--	--	0.4 U	--	--	0.4 U
Sodium	NE	20000	µg/L	--	--	--	--	--	--	31000	--	--	27100
Thallium	0.5	NE	µg/L	--	--	--	--	--	--	0.5 U	--	--	0.04 J
Vanadium	NE	NE	µg/L	--	--	--	--	--	--	0.25 J	--	--	0.71 J
Zinc	2000	NE	µg/L	--	--	--	--	--	--	4.35 J	--	--	21.94
Pesticides													
4,4'-DDD	NE	0.3	µg/L	--	--	--	--	--	--	--	--	0.04 U	--
4,4'-DDE	NE	0.2	µg/L	--	--	--	--	--	--	--	--	0.04 U	--
4,4'-DDT	NE	0.2	µg/L	--	--	--	--	--	--	--	--	0.07	--
Aldrin	NE	0	µg/L	--	--	--	--	--	--	--	--	0.039 P	--
Alpha-BHC	NE	0.01	µg/L	--	--	--	--	--	--	--	--	0.023	--
Beta-BHC	NE	0.4	µg/L	--	--	--	--	--	--	--	--	0.21	--
Chlordane, alpha	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chlordane, beta	NE	NE	µg/L	--	--	--	--	--	--	--	--	--	--
Chlordane	NE	NE	µg/L	--	--	--	--	--	--	--	--	0.2 U	--
cis-Chlordane	NE	NE	µg/L	--	--	--	--	--	--	--	--	0.02 U	--
Delta-BHC	NE	0.04	µg/L	--	--	--	--	--	--	--	--	0.02 U	--
Dieldrin	NE	0.004	µg/L	--	--	--	--	--	--	--	--	2.13 E	--
Endosulfan I	NE	NE	µg/L	--	--	--	--	--	--	--	--	0.02 U	--
Endosulfan II	NE	NE	µg/L	--	--	--	--	--	--	--	--	0.04 U	--
Endosulfan sulfate	NE	NE	µg/L	--	--	--	--	--	--	--	--	0.04 U	--
Endrin	NE	0	µg/L	--	--	--	--	--	--	--	--	0.077	--
Endrin aldehyde	NE	5	µg/L	--	--	--	--	--	--	--	--	--	--
Endrin ketone	NE	5	µg/L	--	--	--	--	--	--	--	--	0.45	--
Heptachlor	NE	0.04	µg/L	--	--	--	--	--	--	--	--	0.02 U	--
Heptachlor epoxide	NE	0.03	µg/L	--	--	--	--	--	--	--	--	0.02 U	--
Lindane	NE	0.05	µg/L	--	--	--	--	--	--	--	--	0.03 P	--
Methoxychlor	NE	35	µg/L	--	--	--	--	--	--	--	--	0.2 U	--
Toxaphene	NE	0.06	µg/L	--	--	--	--	--	--	--	--	0.2 U	--
trans-Chlordane	NE	NE	µg/L	--	--	--	--	--	--	--	--	0.02 U	--
Polychlorinated Biphenyls (PCBs)													
Aroclor 1016	NE	0.9	µg/L	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	NE	0.9	µg/L	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	NE	0.9	µg/L	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	NE	0.9	µg/L	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	NE	0.9	µg/L	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	NE	0.9	µg/L	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	NE	0.9	µg/L	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	NE	0.9	µg/L	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	NE	0.9	µg/L	--	--	--	--	--	--	--	--	--	--
Total PCBs	NE	0.09	µg/L	--	--	--	--	--	--	--	--	--	--

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Constituent	Class GA Groundwater Quality Criteria			VES-3 GW	VES-4 GW	VES-5 GW	VES-9 GW	VES-10 GW	VES-11 GW	VES-12 GW	VES-13 GW	VES-14 GW	VES-15 GW
	TOGS 1.1.1 Guidance	NYS Part 703 ⁽¹⁾ Standard	Units	3/1/2014	3/1/2014	3/1/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/18/2014	4/17/2014	4/18/2014
Other Constituents													
Sulfate	NE	250	mg/L	--	--	--	--	--	--	--	--	--	--
Alkalinity, bicarbonate (as CaCO3)	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Alkalinity, carbonate (as CaCO3)	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Alkalinity, hydroxide (as CaCO3)	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Dissolved organic carbon	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Ethane	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Ethene	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Methane	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Chloride	NE	250	mg/L	--	--	--	--	--	--	--	--	--	--
Nitrate (as N)	NE	10	mg/L	--	--	--	--	--	--	--	--	--	--
Nitrite (as N)	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Volatile Fatty Acids													
Acetic acid	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Butanoic acid	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Formic acid	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Lactic acid	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Propionic acid	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Pyruvic acid	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons													
TPH (C10-C28)	NE	NE	mg/L	--	--	--	--	--	--	--	--	--	--

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
B - Constituent was found in the blank and the sample.
* - Laboratory Control Sample (LCS) and LCS Duplicate is outside of acceptance limits.
(1) - Notes applicable to NYS Part 703 Standards:
(a) - Any detected concentration for Benzo(a)pyrene, aldrin, or endrin is considered above the Part 703 Standard.
(b) - The standard for the sum of phenolic compounds is 1 µg/L
(c) - The standard of the sum of PCBs is 0.9 µg/L
(2) MW-1 is considered an off-Site upgradient monitoring well.



TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			SB-74 GW 4/17/2014	VSW-1 4/18/2014	VSW-2 4/18/2014	VSW-3 4/18/2014
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units				
	Guidance	Standard					
<i>Volatile Organic Compounds (VOCs)</i>							
1,1,1-Trichloroethane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
1,1,1,2-Tetrachloroethane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	NE	5	µg/L	--	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	5	µg/L	--	--	--	--
1,1,2-Trichloroethane	NE	1	µg/L	--	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	NE	5	µg/L	--	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	NE	NE	µg/L	--	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	NE	NE	µg/L	--	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	NE	0.04	µg/L	--	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	10	5	µg/L	--	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	NE	NE	µg/L	--	2 U	2 U	2 U
1,2-Dibromo-3-Chloropropane	NE	0.04	µg/L	--	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	NE	0.0006	µg/L	--	2 U	2 U	2 U
1,2-Dichlorobenzene	NE	3	µg/L	--	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	NE	0.6	µg/L	--	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	NE	1	µg/L	--	1 U	1 U	1 U
1,3-Dichlorobenzene	NE	3	µg/L	--	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene, Total	NE	0.4	µg/L	--	--	--	--
1,3,5-Trimethylbenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	NE	3	µg/L	--	2.5 U	2.5 U	2.5 U
1,4-Dioxane ⁽²⁾	10	NE	µg/L	--	250 U	250 U	250 U
2-Butanone (MEK)	50	NE	µg/L	--	5 U	5 U	5 U
2-Hexanone	50	NE	µg/L	--	5 U	5 U	5 U
2,2-Dichloropropane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
4-Methyl-2-pentanone (MIBK)	NE	NE	µg/L	--	5 U	5 U	5 U
Acetone	50	NE	µg/L	--	5 U	5 U	5 U
Acrylonitrile	NE	5	µg/L	--	5 U	5 U	5 U
Benzene	NE	1	µg/L	--	0.5 U	0.5 U	0.5 U
Bromobenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Bromochloromethane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	NE	µg/L	--	0.5 U	0.5 U	0.5 U
Bromoform	NE	NE	µg/L	--	2 U	2 U	2 U
Bromomethane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Carbon disulfide	60	60	µg/L	--	5 U	5 U	5 U
Carbon tetrachloride	NE	5	µg/L	--	0.5 U	0.5 U	0.5 U
Chlorobenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Chlorobromomethane	NE	NE	µg/L	--	--	--	--
Chlorodibromomethane	NE	NE	µg/L	--	--	--	--
Chloroethane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Chloroform	NE	7	µg/L	--	2.5 U	2.5 U	2.5 U
Chloromethane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	NE	0.4	µg/L	--	0.5 U	0.5 U	0.5 U

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			SB-74 GW	VSW-1	VSW-2	VSW-3
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units	4/17/2014	4/18/2014	4/18/2014	4/18/2014
	Guidance	Standard					
Cyclohexane	NE	NE	µg/L	--	--	--	--
Dichlorobromomethane	NE	NE	µg/L	--	0.5 U	0.5 U	0.5 U
Dibromomethane	NE	5	µg/L	--	5 U	5 U	5 U
Dichlorodifluoromethane	NE	5	µg/L	--	5 U	5 U	5 U
Ethyl ether	NE	NE	µg/L	--	2.5 U	2.5 U	2.5 U
Ethylbenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Ethylene Dibromide	NE	0.0006	µg/L	--	--	--	--
Hexachlorobutadiene	NE	NE	µg/L	--	2.5 U	2.5 U	2.5 U
Isopropylbenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Methyl acetate	NE	NE	µg/L	--	--	--	--
Methyl tert-butyl ether	10	NE	µg/L	--	2.5 U	2.5 U	2.5 U
Methylcyclohexane	NE	NE	µg/L	--	--	--	--
Methylene Chloride	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Naphthalene	10	NE	µg/L	--	2.5 U	2.5 U	2.5 U
n-Butylbenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
n-Propylbenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
o-Chlorotoluene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
m-Xylene & p-Xylene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
o-Xylene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Xylenes, Total	NE	5	µg/L	--	--	--	--
p-Chlorotoluene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
p-Diethylbenzene	NE	NE	µg/L	--	2 U	2 U	2 U
p-Ethyltoluene	NE	NE	µg/L	--	2 U	2 U	2 U
p-Isopropyltoluene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
sec-Butylbenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Styrene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
tert-Butylbenzene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Tetrachloroethene	NE	5	µg/L	--	0.5 U	0.5 U	0.5 U
Toluene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	NE	0.4	µg/L	--	0.5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Trichloroethene	NE	5	µg/L	--	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	NE	5	µg/L	--	2.5 U	2.5 U	2.5 U
Vinyl acetate	NE	NE	µg/L	--	5 U	5 U	5 U
Vinyl chloride	NE	2	µg/L	--	1 U	1 U	1 U

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			SB-74 GW 4/17/2014	VSW-1 4/18/2014	VSW-2 4/18/2014	VSW-3 4/18/2014
	TOGS 1.1.1 Guidance	NYS Part 703 ⁽¹⁾ Standard	Units				
<i>Semi-Volatile Organic Compounds (SVOCs)</i>							
1,1'-Biphenyl	NE	5	µg/L	--	--	--	--
1,2,4-Trichlorobenzene	NE	NE	µg/L	--	--	--	--
1,2,4,5-Tetrachlorobenzene	NE	5	µg/L	--	--	--	--
1,2-Dichlorobenzene	NE	3	µg/L	--	--	--	--
1,3-Dichlorobenzene	NE	3	µg/L	--	--	--	--
1,4-Dichlorobenzene	NE	3	µg/L	--	--	--	--
1,4-Dioxane ⁽²⁾		10	µg/L	--	--	--	--
2-Chloronaphthalene	10	NE	µg/L	--	--	--	--
2-Chlorophenol	NE	1	µg/L	--	--	--	--
2-Methylnaphthalene	NE	NE	µg/L	--	--	--	--
2-Methylphenol	NE	1	µg/L	--	--	--	--
2-Nitroaniline	NE	5	µg/L	--	--	--	--
2-Nitrophenol	NE	1	µg/L	--	--	--	--
2,2'-oxybis[1-chloropropane]	NE	NE	µg/L	--	--	--	--
2,4-Dichlorophenol	NE	1	µg/L	--	--	--	--
2,4-Dimethylphenol	NE	1	µg/L	--	--	--	--
2,4-Dinitrophenol	NE	1	µg/L	--	--	--	--
2,4-Dinitrotoluene	NE	5	µg/L	--	--	--	--
2,4,5-Trichlorophenol	NE	1	µg/L	--	--	--	--
2,4,6-Trichlorophenol	NE	1	µg/L	--	--	--	--
2,3,4,6-Tetrachlorophenol	NE	1	µg/L	--	--	--	--
2,6-Dinitrotoluene	NE	5	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	NE	5	µg/L	--	--	--	--
3-Methylphenol/4-Methylphenol	NE	1	µg/L	--	--	--	--
3-Nitroaniline	NE	5	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	NE	1	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	NE	NE	µg/L	--	--	--	--
4-Chloro-3-methylphenol	NE	1	µg/L	--	--	--	--
4-Chloroaniline	NE	5	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	NE	NE	µg/L	--	--	--	--
4-Methylphenol	NE	1	µg/L	--	--	--	--
4-Nitroaniline	NE	5	µg/L	--	--	--	--
4-Nitrophenol	NE	1	µg/L	--	--	--	--
Acenaphthene	20	NE	µg/L	--	--	--	--
Acenaphthylene	NE	NE	µg/L	--	--	--	--
Acetophenone	NE	NE	µg/L	--	--	--	--
Anthracene	50	NE	µg/L	--	--	--	--
Atrazine	NE	7.5	µg/L	--	--	--	--
Benzaldehyde	NE	NE	µg/L	--	--	--	--
Benzo[a]anthracene	0.002	NE	µg/L	--	--	--	--
Benzo[a]pyrene	NE	0	µg/L	--	--	--	--
Benzo[b]fluoranthene	0.002	NE	µg/L	--	--	--	--
Benzo[g,h,i]perylene	NE	NE	µg/L	--	--	--	--
Benzo[k]fluoranthene	0.002	NE	µg/L	--	--	--	--
Benzoic Acid	NE	NE	µg/L	--	--	--	--
Benzyl Alcohol	NE	NE	µg/L	--	--	--	--

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			SB-74 GW 4/17/2014	VSW-1 4/18/2014	VSW-2 4/18/2014	VSW-3 4/18/2014
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units				
	Guidance	Standard					
Biphenyl	NE	5	µg/L	--	--	--	--
Bis(2-chloroethoxy)methane	NE	5	µg/L	--	--	--	--
Bis(2-chloroethyl)ether	NE	1	µg/L	--	--	--	--
Bis(2-chloroisopropyl)ether	NE	5	µg/L	--	--	--	--
Bis(2-ethylhexyl) phthalate	NE	5	µg/L	--	--	--	--
Butyl benzyl phthalate	50	NE	µg/L	--	--	--	--
Caprolactam	NE	NE	µg/L	--	--	--	--
Carbazole	NE	NE	µg/L	--	--	--	--
Chrysene	0.002	NE	µg/L	--	--	--	--
Dibenz(a,h)anthracene	NE	NE	µg/L	--	--	--	--
Dibenzofuran	NE	NE	µg/L	--	--	--	--
Diethyl phthalate	50	NE	µg/L	--	--	--	--
Dimethyl phthalate	50	NE	µg/L	--	--	--	--
Di-n-butyl phthalate	NE	50	µg/L	--	--	--	--
Di-n-octyl phthalate	50	NE	µg/L	--	--	--	--
Fluoranthene	50	NE	µg/L	--	--	--	--
Fluorene	50	NE	µg/L	--	--	--	--
Hexachlorobenzene	NE	0.04	µg/L	--	--	--	--
Hexachlorobutadiene	NE	0.5	µg/L	--	--	--	--
Hexachlorocyclopentadiene	NE	5	µg/L	--	--	--	--
Hexachloroethane	NE	5	µg/L	--	--	--	--
Indeno[1,2,3-cd]pyrene	0.002	NE	µg/L	--	--	--	--
Isophorone	50	NE	µg/L	--	--	--	--
Naphthalene	10	NE	µg/L	--	--	--	--
Nitrobenzene	NE	0.4	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	NE	NE	µg/L	--	--	--	--
N-Nitrosodiphenylamine	50	NE	µg/L	--	--	--	--
NitrosoDiPhenylAmine(NDPA)/DPA	NE	NE	µg/L	--	--	--	--
P-Chloro-M-Cresol	NE	NE	µg/L	--	--	--	--
Pentachlorophenol	NE	1	µg/L	--	--	--	--
Phenanthrene	50	NE	µg/L	--	--	--	--
Phenol	NE	1	µg/L	--	--	--	--
Pyrene	50	NE	µg/L	--	--	--	--
<i>Inorganic Constituents</i>							
Aluminum	NE	NE	µg/L	--	--	--	--
Antimony	NE	3	µg/L	--	--	--	--
Arsenic	NE	25	µg/L	--	--	--	--
Barium	NE	1000	µg/L	--	--	--	--
Beryllium	3	NE	µg/L	--	--	--	--
Cadmium	NE	5	µg/L	--	--	--	--
Calcium	NE	NE	µg/L	--	--	--	--
Chromium	NE	50	µg/L	--	--	--	--
Cobalt	NE	NE	µg/L	--	--	--	--
Copper	NE	200	µg/L	--	--	--	--
Iron	NE	300	µg/L	--	--	--	--
Lead	NE	25	µg/L	--	--	--	--
Magnesium	3500	NE	µg/L	--	--	--	--

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			SB-74 GW 4/17/2014	VSW-1 4/18/2014	VSW-2 4/18/2014	VSW-3 4/18/2014
	TOGS 1.1.1	NYS Part 703 ⁽¹⁾	Units				
	Guidance	Standard					
Manganese	NE	300	µg/L	--	--	--	--
Mercury	NE	0.7	µg/L	--	--	--	--
Nickel	NE	100	µg/L	--	--	--	--
Potassium	NE	NE	µg/L	--	--	--	--
Selenium	NE	10	µg/L	--	--	--	--
Silver	NE	50	µg/L	--	--	--	--
Sodium	NE	20000	µg/L	--	--	--	--
Thallium	0.5	NE	µg/L	--	--	--	--
Vanadium	NE	NE	µg/L	--	--	--	--
Zinc	2000	NE	µg/L	--	--	--	--
Pesticides							
4,4'-DDD	NE	0.3	µg/L	--	--	--	--
4,4'-DDE	NE	0.2	µg/L	--	--	--	--
4,4'-DDT	NE	0.2	µg/L	--	--	--	--
Aldrin	NE	0	µg/L	--	--	--	--
Alpha-BHC	NE	0.01	µg/L	--	--	--	--
Beta-BHC	NE	0.4	µg/L	--	--	--	--
Chlordane, alpha	NE	NE	µg/L	--	--	--	--
Chlordane, beta	NE	NE	µg/L	--	--	--	--
Chlordane	NE	NE	µg/L	--	--	--	--
cis-Chlordane	NE	NE	µg/L	--	--	--	--
Delta-BHC	NE	0.04	µg/L	--	--	--	--
Dieldrin	NE	0.004	µg/L	--	--	--	--
Endosulfan I	NE	NE	µg/L	--	--	--	--
Endosulfan II	NE	NE	µg/L	--	--	--	--
Endosulfan sulfate	NE	NE	µg/L	--	--	--	--
Endrin	NE	0	µg/L	--	--	--	--
Endrin aldehyde	NE	5	µg/L	--	--	--	--
Endrin ketone	NE	5	µg/L	--	--	--	--
Heptachlor	NE	0.04	µg/L	--	--	--	--
Heptachlor epoxide	NE	0.03	µg/L	--	--	--	--
Lindane	NE	0.05	µg/L	--	--	--	--
Methoxychlor	NE	35	µg/L	--	--	--	--
Toxaphene	NE	0.06	µg/L	--	--	--	--
trans-Chlordane	NE	NE	µg/L	--	--	--	--
Polychlorinated Biphenyls (PCBs)							
Aroclor 1016	NE	0.9	µg/L	0.1 U	--	--	--
Aroclor 1221	NE	0.9	µg/L	0.1 U	--	--	--
Aroclor 1232	NE	0.9	µg/L	0.1 U	--	--	--
Aroclor 1242	NE	0.9	µg/L	0.1 U	--	--	--
Aroclor 1248	NE	0.9	µg/L	0.1 U	--	--	--
Aroclor 1254	NE	0.9	µg/L	0.1 U	--	--	--
Aroclor 1260	NE	0.9	µg/L	0.1 U	--	--	--
Aroclor 1262	NE	0.9	µg/L	0.1 U	--	--	--
Aroclor 1268	NE	0.9	µg/L	0.1 U	--	--	--
Total PCBs	NE	0.09	µg/L	--	--	--	--

TABLE 6a
REMAINING GROUNDWATER SAMPLE EXCEEDANCES
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituent	Class GA Groundwater Quality Criteria			SB-74 GW	VSW-1	VSW-2	VSW-3
	TOGS 1.1.1 Guidance	NYS Part 703 ⁽¹⁾ Standard	Units	4/17/2014	4/18/2014	4/18/2014	4/18/2014
Other Constituents							
Sulfate	NE	250	mg/L	--	--	--	--
Alkalinity, bicarbonate (as CaCO3)	NE	NE	mg/L	--	--	--	--
Alkalinity, carbonate (as CaCO3)	NE	NE	mg/L	--	--	--	--
Alkalinity, hydroxide (as CaCO3)	NE	NE	mg/L	--	--	--	--
Alkalinity, total (as CaCO3)	NE	NE	mg/L	--	--	--	--
Dissolved organic carbon	NE	NE	mg/L	--	--	--	--
Ethane	NE	NE	mg/L	--	--	--	--
Ethene	NE	NE	mg/L	--	--	--	--
Methane	NE	NE	mg/L	--	--	--	--
Chloride	NE	250	mg/L	--	--	--	--
Nitrate (as N)	NE	10	mg/L	--	--	--	--
Nitrite (as N)	NE	NE	mg/L	--	--	--	--
Volatile Fatty Acids							
Acetic acid	NE	NE	mg/L	--	--	--	--
Butanoic acid	NE	NE	mg/L	--	--	--	--
Formic acid	NE	NE	mg/L	--	--	--	--
Lactic acid	NE	NE	mg/L	--	--	--	--
Propionic acid	NE	NE	mg/L	--	--	--	--
Pyruvic acid	NE	NE	mg/L	--	--	--	--
Total Petroleum Hydrocarbons							
TPH (C10-C28)	NE	NE	mg/L	--	--	--	--

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.

J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.

B - Constituent was found in the blank and the sample.

* - Laboratory Control Sample (LCS) and LCS Duplicate is outside of acceptance limits.

(1) - Notes applicable to NYS Part 703 Standards:

(a) - Any detected concentration for Benzo(a)pyrene, aldrin, or endrin is considered above the Part 703 Standard.

(b) - The standard for the sum of phenolic compounds is 1 µg/L

(c) - The standard of the sum of PCBs is 0.9 µg/L

(2) MW-1 is considered an off-Site upgradient monitoring well.

TABLE 6b
GROUNDWATER MONITORED NATURAL ATTENUATION EVALUATION DATA
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Constituents of Concern (COC)	Regulatory Limit	Unit	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	MW-09	MW-10
			5/13/2019	5/13/2019	5/13/2019	5/14/2019	5/14/2019	5/14/2019	5/14/2019	3/5/2020	3/5/2020	3/5/2020
Carbon disulfide	60	µg/L	1.0 U	1.0 U	1.0 U	1.2	89 F1	2.9	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	µg/L	1.0 U	0.69 J	1.0 U	0.77 J	8.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.7 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene (PCE)	5	µg/L	1.0 U	6.2	1.0 U	5.3	490	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene (TCE)	5	µg/L	1.0 U	1.0 U	0.60 J	1.0 U	15	1.0 U	1.0 U	1.0 U	1.0 U	0.91 J
cis-1,2-Dichloroethene	5	µg/L	1.0 U	1.0 U	6.1	0.51 J	1.3 J	0.28 J	1.0 U	1.0 U	1.0 U	7.4
Vinyl chloride	2	µg/L	1.0 U	1.0 U	4.6	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.3
Geochemical												
Ethane	-	µg/L	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	N/A
Ethene	-	µg/L	7.0 U	7.0 U	7.0 U	7.0 U	7.0 UF1	7.0 U	7.0 U	7.0 U	7.0 U	N/A
Methane	-	µg/L	4.0 U	4.0 U	93	43	24 F1	48	4.3	29	22	N/A
Alkalinity, total (as CaCO3)	-	mg/L	138	11.5	165	119	5.0 U	207	167	5.0 U	315	N/A
Dissolved organic carbon	-	mg/L	1.6	2.2	10.2	3.7	5.8	4.8	1.8	1.5	1.7	N/A
Carbon dioxide	-	mg/L	85	120	160	110	150	120	80	340	85	170
Iron	300	µg/L	522	6620	50800	37800	69700	300000	12400	95100	13200	N/A
Sulfate	250	mg/L	77.6	557	721	304	837	203	81.7	836	203	N/A
pH	-	SU	6.24	5.2	6.34	6.42	3.1	6.7	6.97	6.17	7.68	7.51
ORP	-	mV	209	219	-30	16	321	8	-62	-21	-103	-90
Dissolved oxygen	-	mg/L	0.91	1.14	1.75	1.43	0.74	3.02	1.78	0	1.06	2.38

Notes:
mg/L = milligrams per liter
mV = millivolts
ORP = Oxidation-reduction potential
SU = standard unit
µg/L = micrograms per liter

TABLE 7
GROUNDWATER ELEVATION MEASUREMENTS
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

Well ID	Top of Casing Elevation (ft., NGVD)	Screened Interval (ft., BGS)	8/16/2018		5/13/2019		5/15/2019		5/23/2019		3/5/2020	
			Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)
MW-1	123.93	8-23	5.10	118.83	3.90	120.03	3.91	120.02	4.83	119.10	5.54	118.39
MW-2	130.23	10-25	12.07	118.16	10.71	119.52	10.45	119.78	10.88	119.35	11.95	118.28
MW-3	122.60	10-25	--	--	3.88	118.72	3.93	118.67	4.27	118.33	4.76	117.84
MW-4	129.44	8-23	--	--	9.81	119.63	9.79	119.65	10.11	119.33	10.53	118.91
MW-5	129.50	9-24	--	--	10.16	119.34	9.94	119.56	10.28	119.22	10.92	118.58
MW-6	126.66	7-22	--	--	7.81	118.85	7.78	118.88	8.07	118.59	8.47	118.19
MW-7	125.21	8-23	--	--	5.70	119.51	5.68	119.53	5.98	119.23	6.59	118.62
MW-8	129.03	9-24	--	--	--	--	--	--	--	--	10.39	118.64
MW-9	122.12	8-23	--	--	--	--	--	--	--	--	3.94	118.18
MW-10	123.10	8-23	--	--	--	--	--	--	--	--	5.18	117.92
SG-1	122.51	--	--	--	3.57	118.94	3.82	118.69	3.88	118.63	3.99	118.52
Bridge	125.82	--	--	--	8.49	117.33	8.51	117.31	8.67	117.15	9.08	116.74

Notes:

NGVD - National Geodetic Vertical Datum
BGS - Below Ground Surface
BTOC - Below Top of Casing

FIGURES

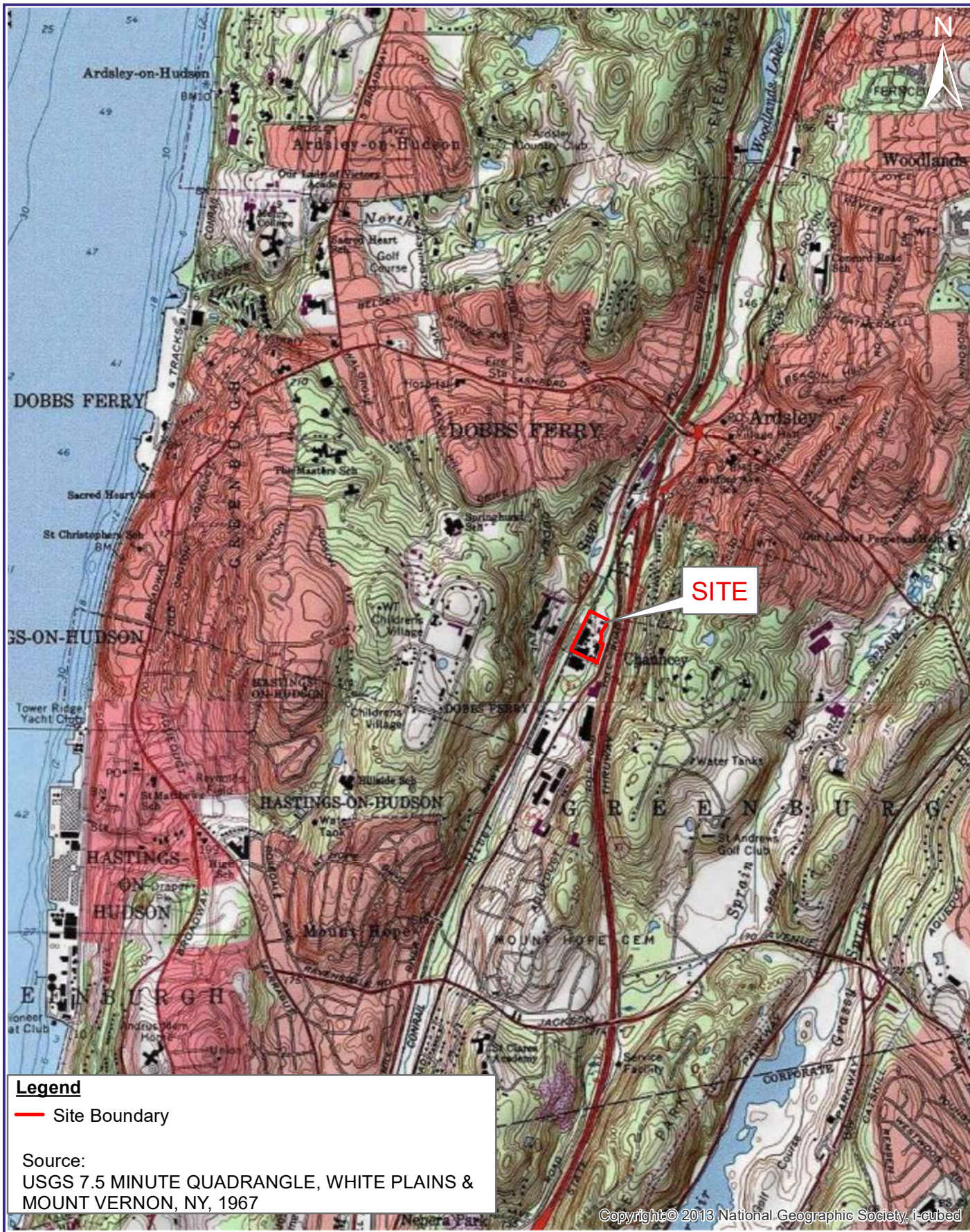
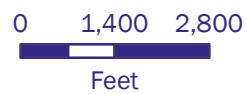


FIGURE 1
SITE LOCATION
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



Legend

- Site Boundary
- Saw Mill River (Approximate)
- ⊕ Monitoring Wells
- Remedial Investigation Soil Vapor Samples
- Remedial Investigation Sediment/Surface Water Samples
- Remaining Asphalt/Pavement
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement
- Geologic Cross-Section Alignment
- FIRM Designated Floodway
- FIRM Designated 100-year Flood Zone
- x Fence
- ⊕ Monitoring Well to be Decommissioned as Part of Remedial Action

Sources:

- 1) Base map developed based on figures prepared by First Environment (March 2019), Paul J. Petretti (July 2019 and July 2020), and MJ Engineering and Land Surveying (April 2021).
- 2) Aerial photo from NYS DOP 2021 Survey.

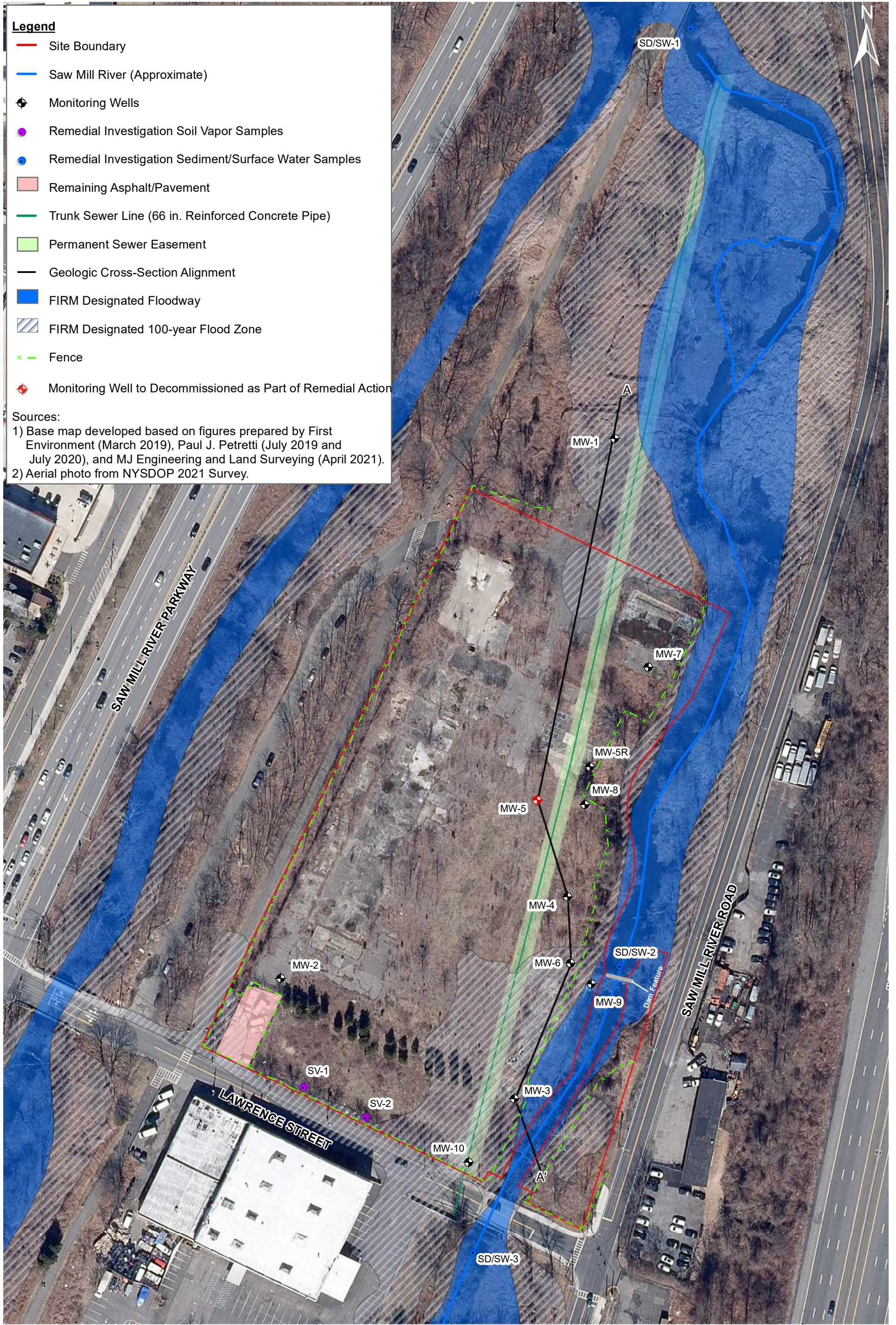
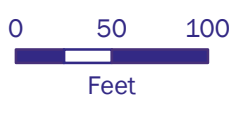
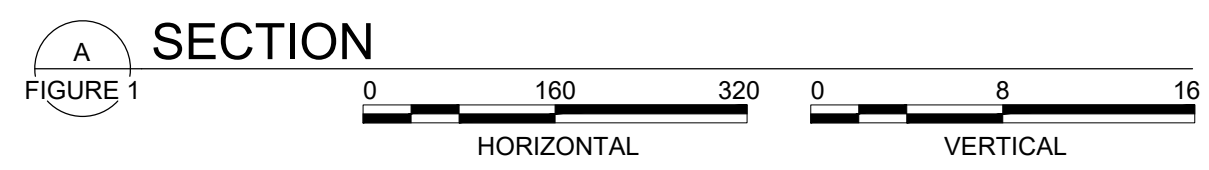
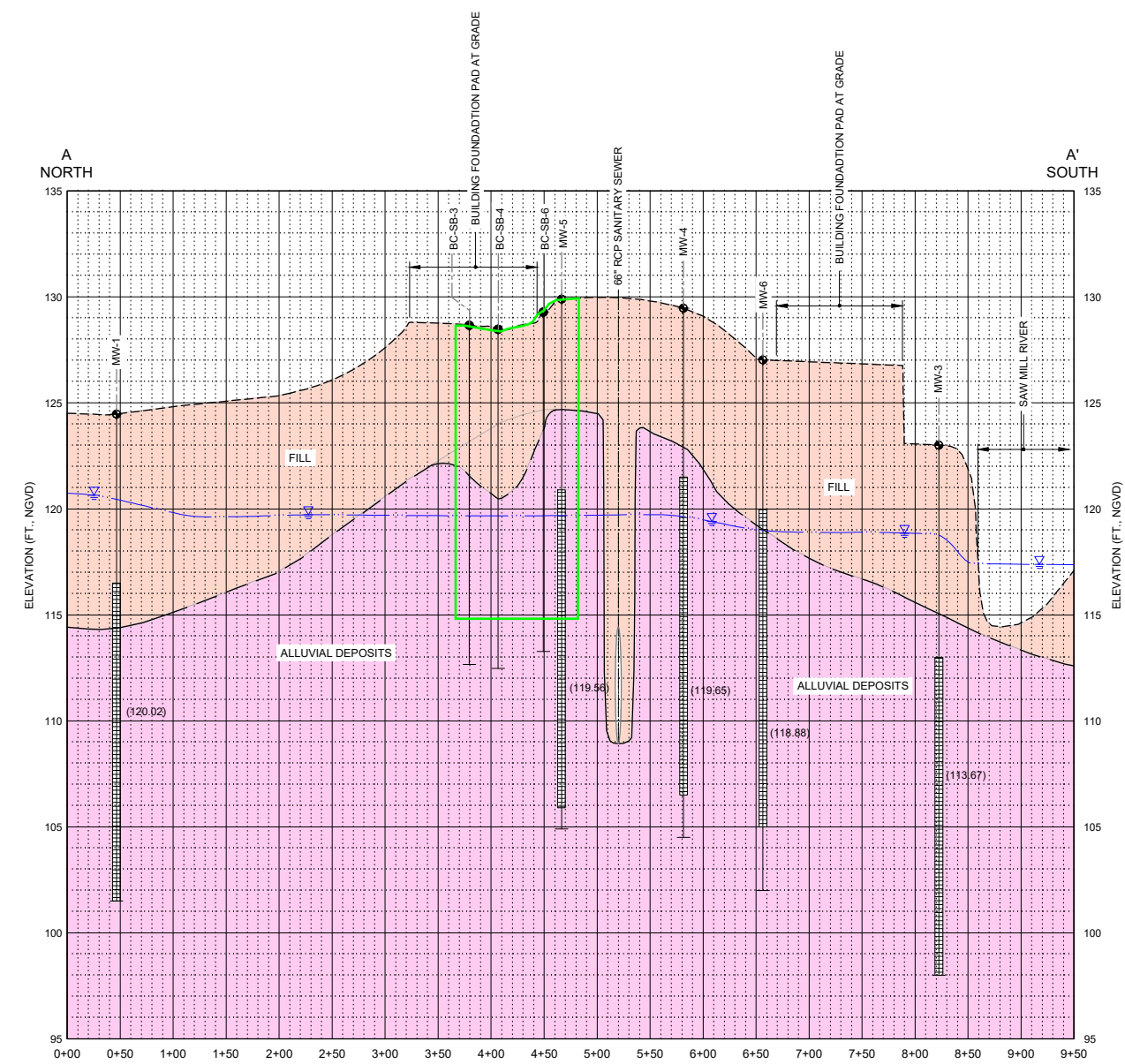
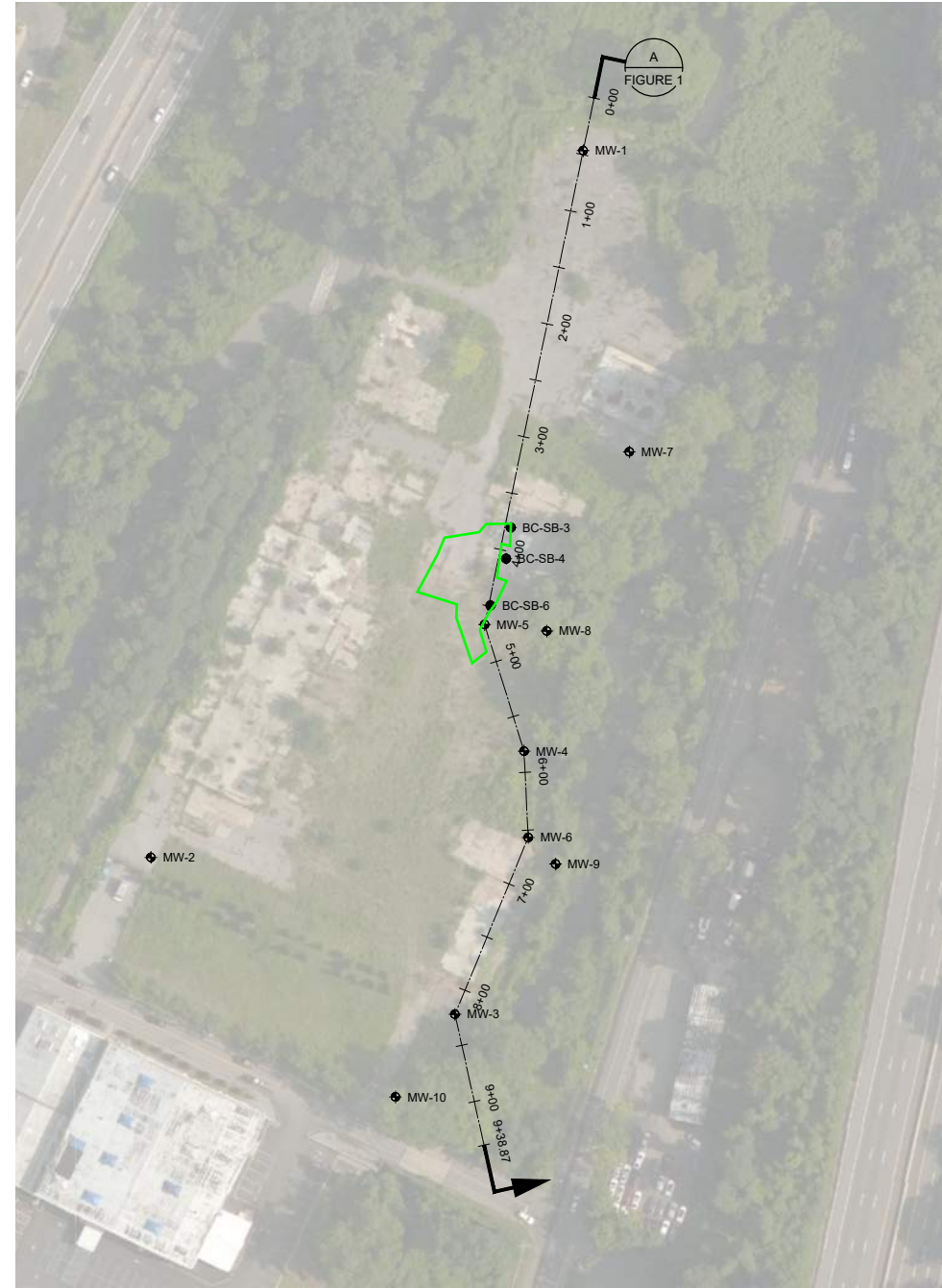
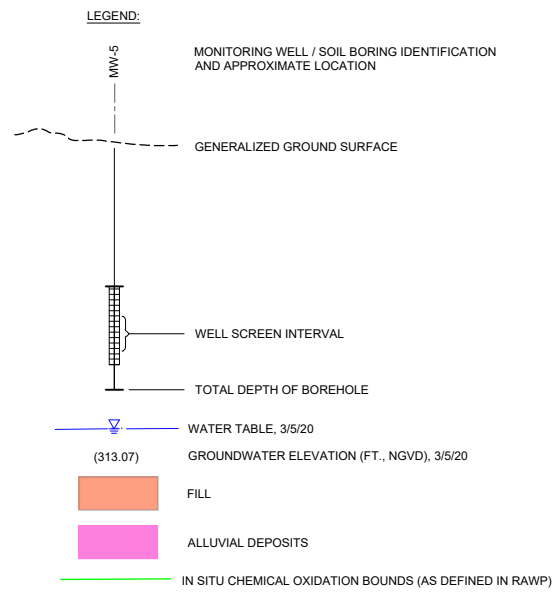


FIGURE 2
SITE LAYOUT
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



Path: C:\bcp\wd1551319 File Name: 153292-Section_2021-09-10 Plot Date: September 10, 2021 4:04 PM Cadd User: Richard Johnson



PROJECT: 153292
SCALE: AS NOTED
DATE: September 2021

ARDSLEY LLC
SITE NO. C360146
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

GEOLOGICAL CROSS-SECTION A-A'

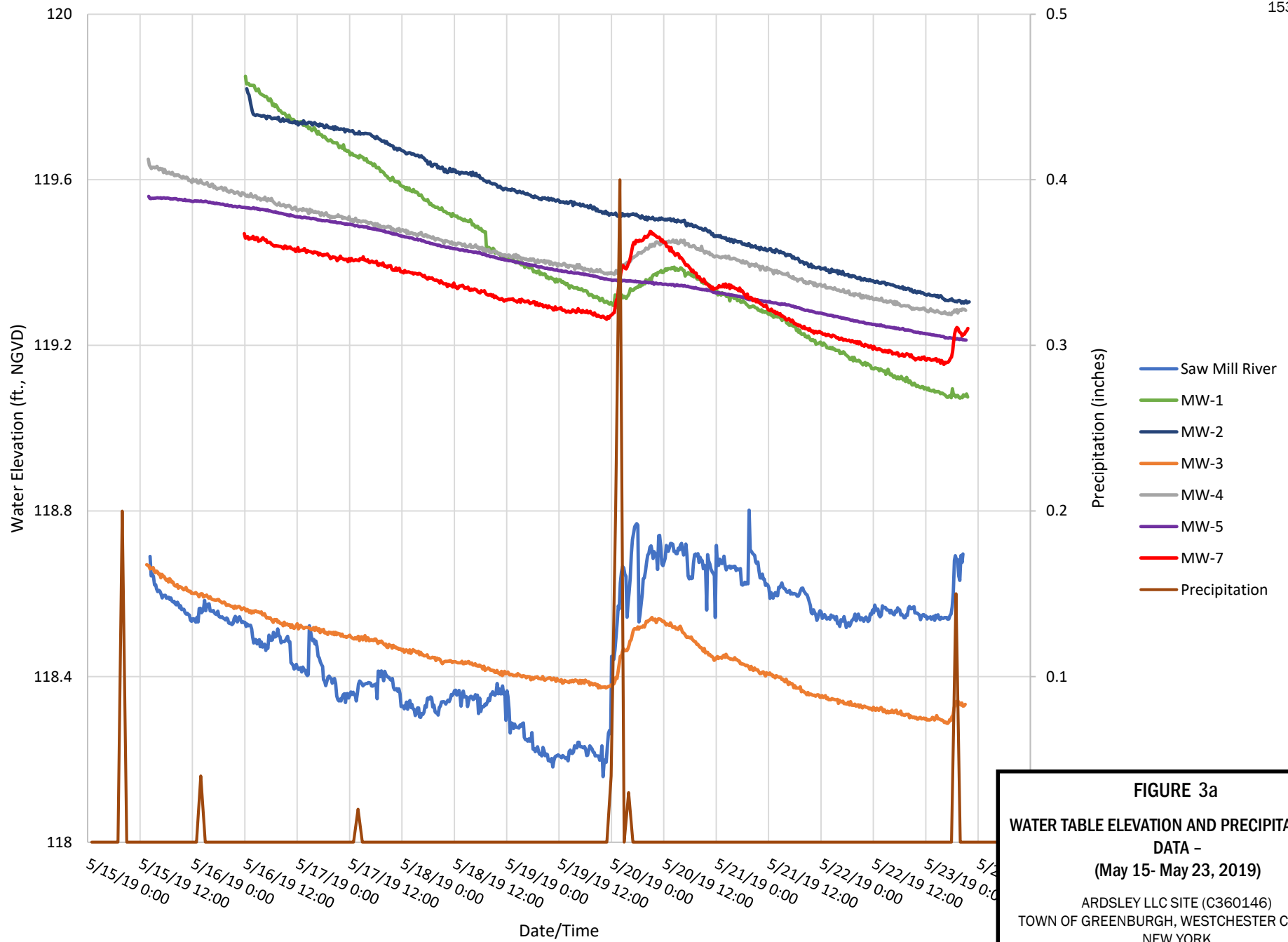
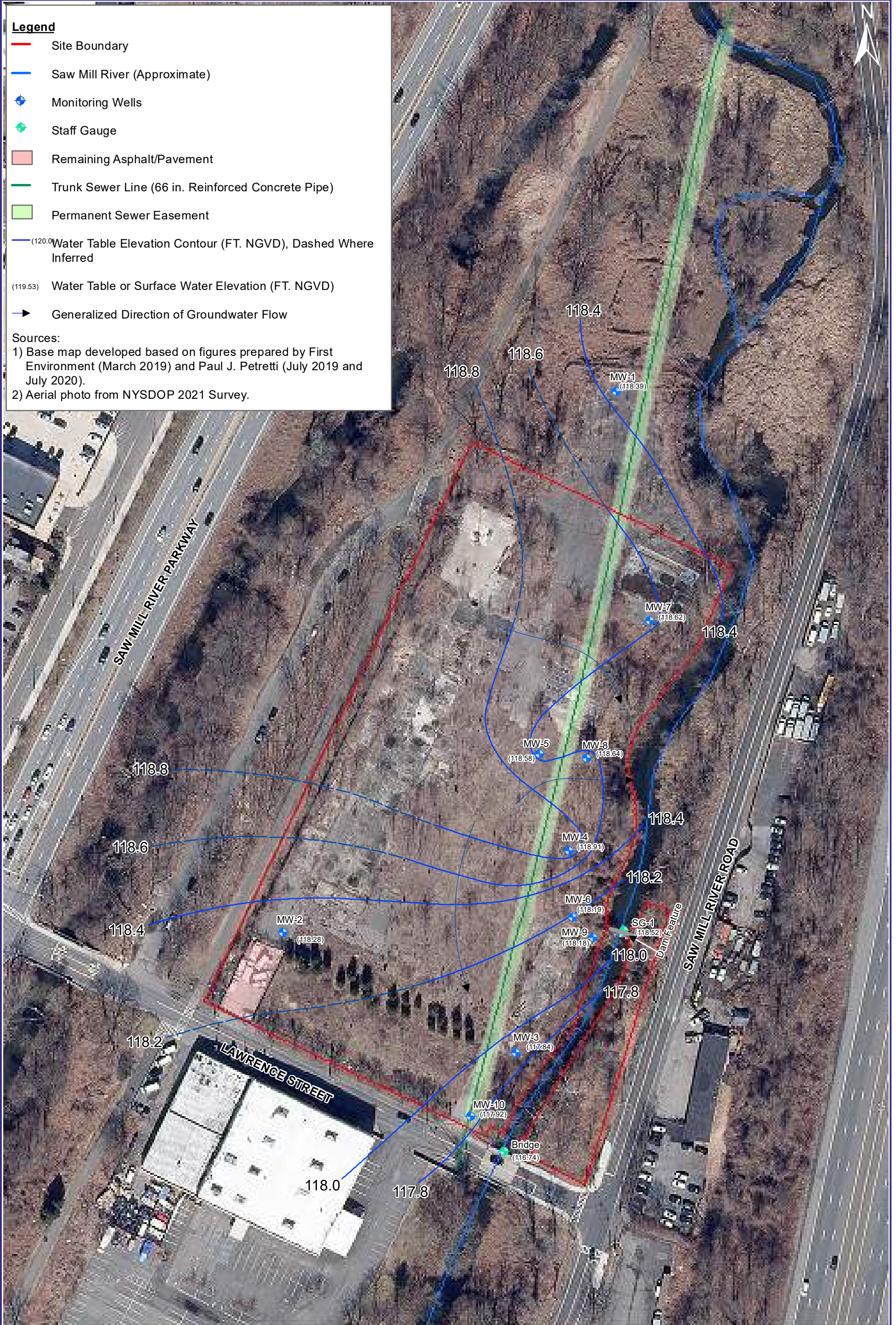


FIGURE 3a
WATER TABLE ELEVATION AND PRECIPITATION
DATA -
(May 15- May 23, 2019)
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY,
NEW YORK






Legend

- Site Boundary
- Saw Mill River (Approximate)
- ◆ Monitoring Wells
- ◆ Staff Gauge
- Remaining Asphalt/Pavement
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement
- - - (120.0) Water Table Elevation Contour (FT. NGVD), Dashed Where Inferred
- (119.53) Water Table or Surface Water Elevation (FT. NGVD)
- ➔ Generalized Direction of Groundwater Flow

Sources:

- 1) Base map developed based on figures prepared by First Environment (March 2019) and Paul J. Petretti (July 2019 and July 2020).
- 2) Aerial photo from NYSDOP 2021 Survey.

FIGURE 4
WATER TABLE CONTOUR MAP - MARCH 5, 2020
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



0 50 100
Feet

Legend

- Site Boundary
- Saw Mill River (Approximate)
- Soil Sample Location - green indicates no exceedance of applicable SCOs
- Soil Sample Location - red indicates exceedance of applicable SCOs
- Remaining Asphalt/Pavement
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Note:
Analytical soil results compared to NYS Part 375 SCOs (Unrestricted Use)

Sources:
1) Base map developed based on figures prepared by First Environment (July 2017), Paul J. Petretti (July 2019 and July 2020) and MJ Engineering and Land Surveying (April 2021).
2) Aerial photo from NYSDOP 2021 Survey.

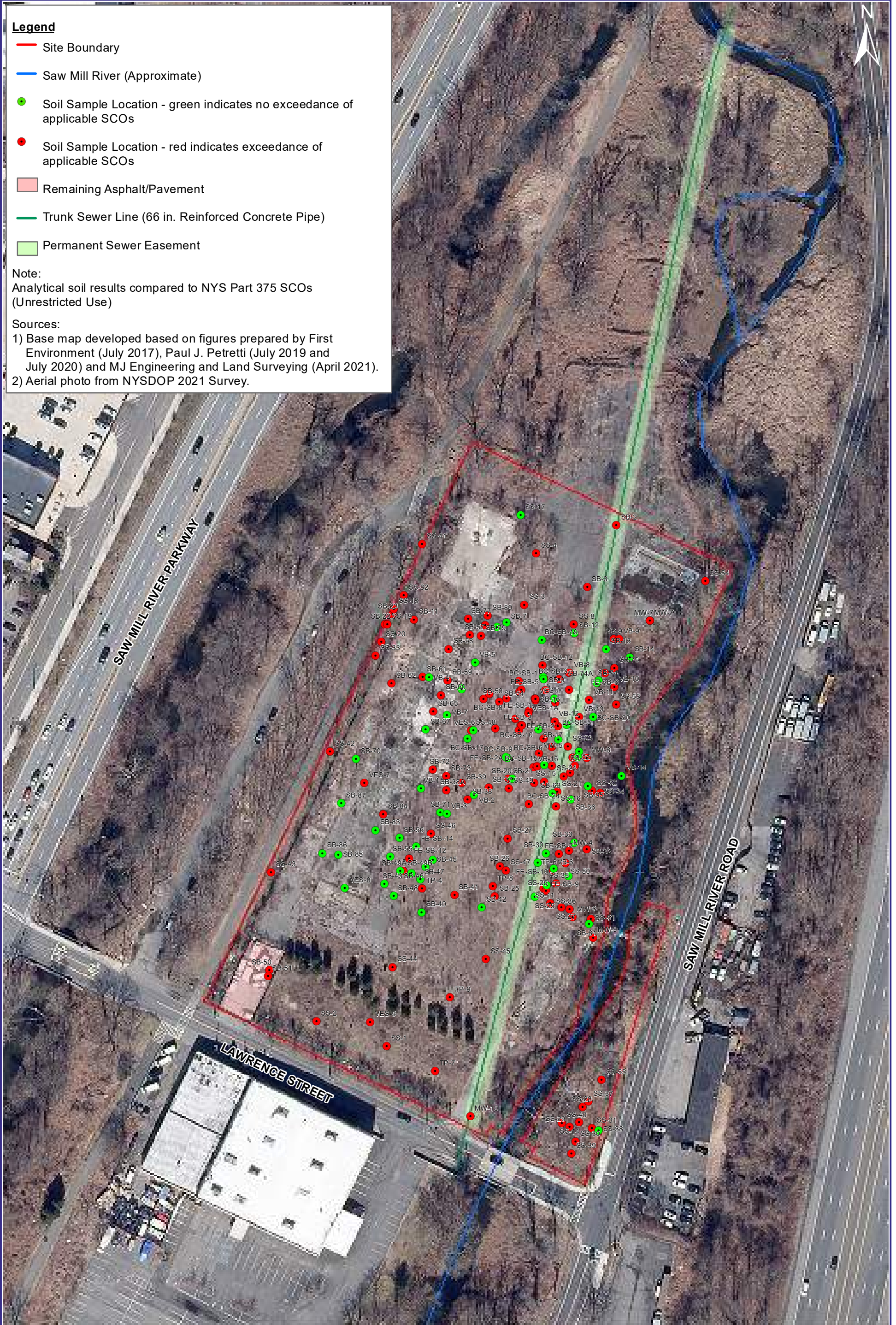
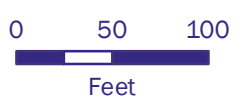


FIGURE 5a
SOIL ANALYTICAL RESULTS - EXCEEDANCES OF UNRESTRICTED SCOs
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



Legend

- Site Boundary
- Saw Mill River (Approximate)
- Soil Sample Location - green indicates no exceedance of applicable SCOs
- Soil Sample Location - red indicates exceedance of applicable SCOs
- Remaining Asphalt/Pavement
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Note:
 Analytical soil results compared to NYS Part 375 SCOs (Protection of Public Health for Commercially Zoned Properties)

Sources:
 1) Base map developed based on figures prepared by First Environment (July 2017), Paul J. Petretti (July 2019 and July 2020) and MJ Engineering and Land Surveying (April 2021).
 2) Aerial photo from NYSDOP 2021 Survey.

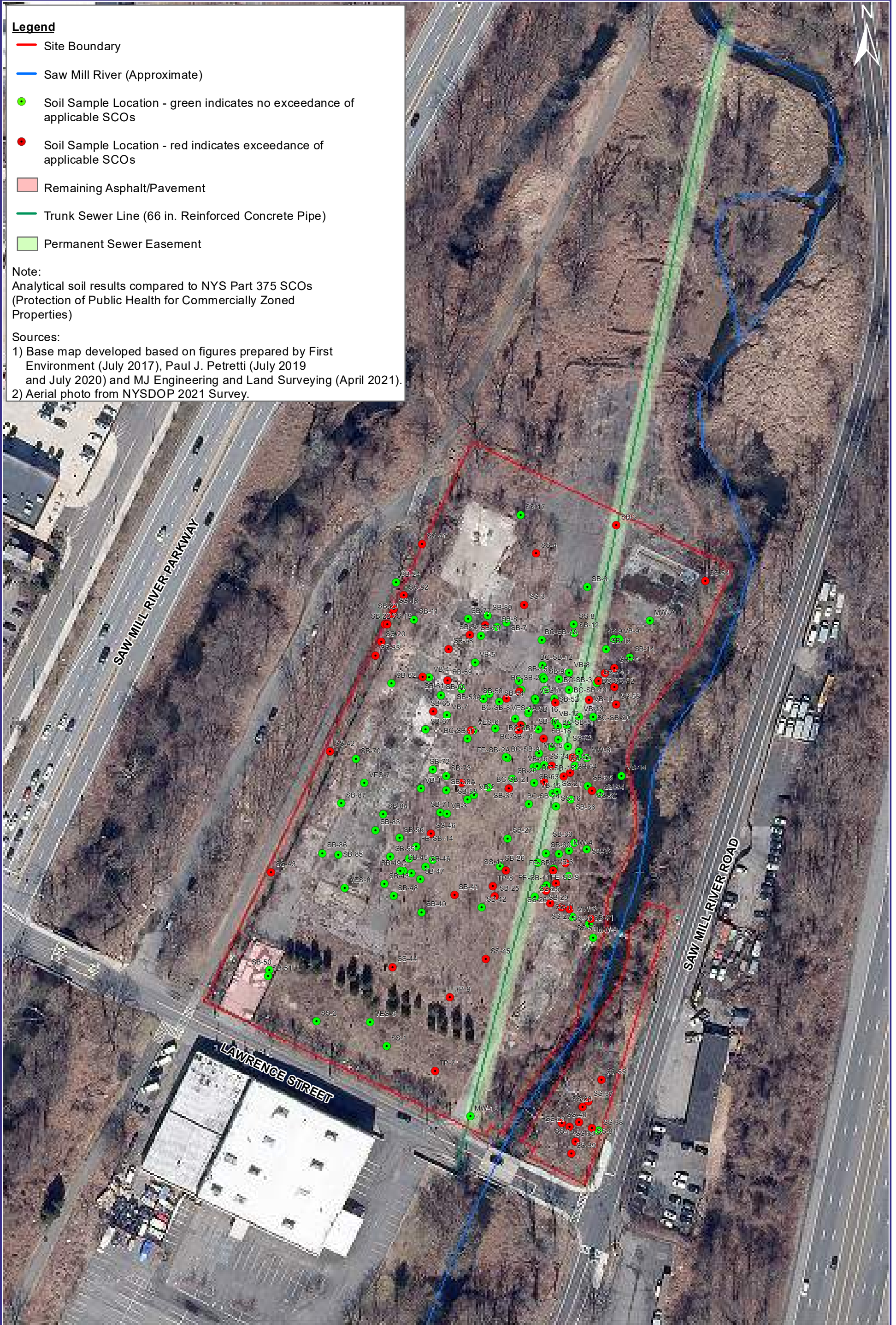
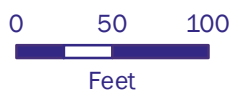


FIGURE 5b
SOIL ANALYTICAL RESULTS - EXCEEDANCES OF COMMERCIAL USE SCOs
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NY



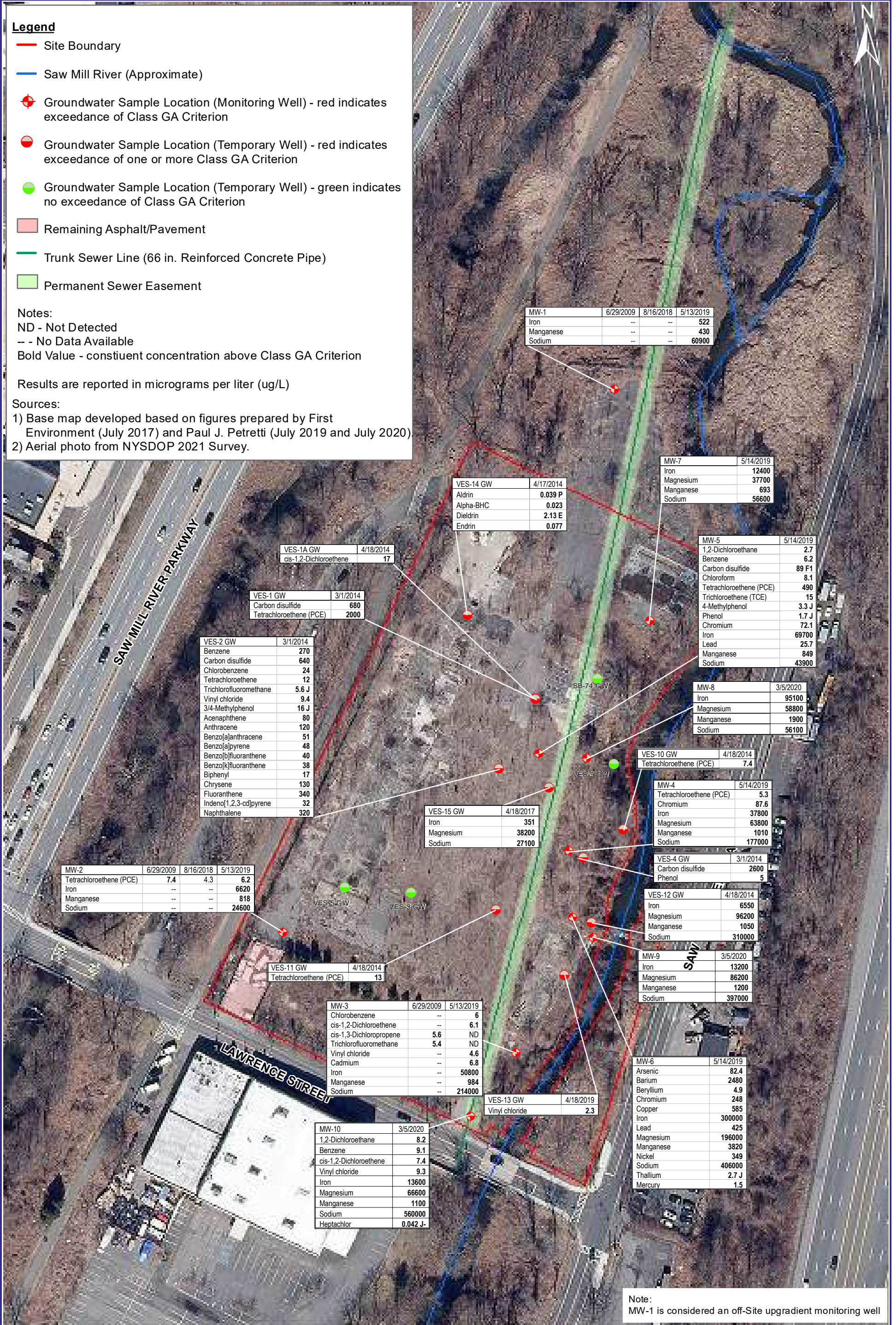
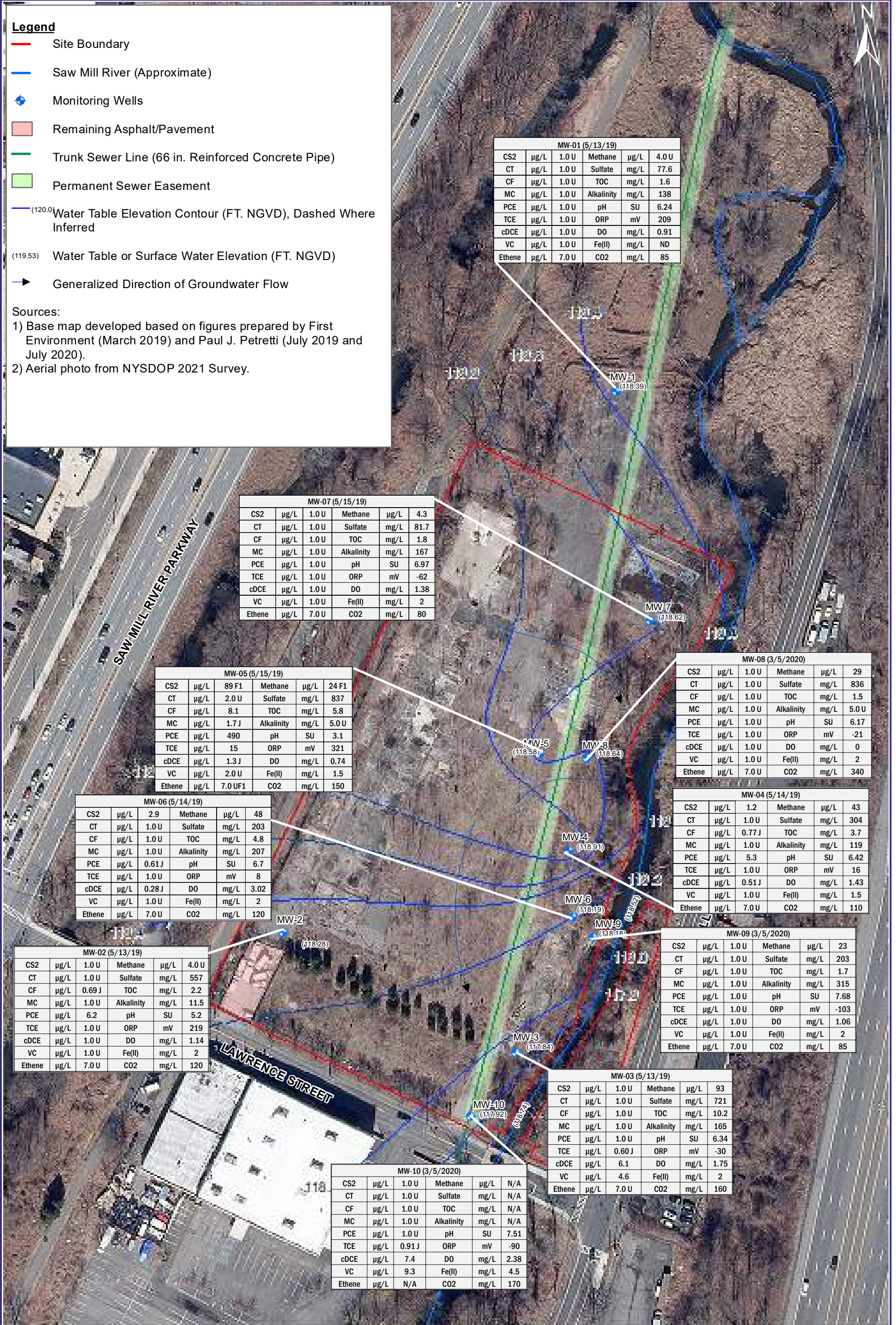


FIGURE 6a
GROUNDWATER ANALYTICAL RESULTS - EXCEEDANCES OF CLASS GA STANDARDS
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

0 50 100 Feet





Legend

- Site Boundary
- Saw Mill River (Approximate)
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement
- FIRM Designated Floodway
- FIRM Designated 100-year Flood Zone
- D Sanitary Sewer Manhole
- x Fence to be maintained
- Silt Sock (Erosion Control) to be maintained
- 12-inch Imported Cover
- Asphalt to remain as Site cover
- ◆ Monitoring Well Maintained for Monitored Natural Attenuation
- ◆ Monitoring Well Decommissioned as part of Remedial Action

Sources:
 1) Base map developed based on figures prepared by First Environment (March 2019), Paul J. Petretti (July 2019 and July 2020), and MJ Engineering and Land Surveying (April 2021).
 2) Aerial photo from NYSDOP 2021 Survey.

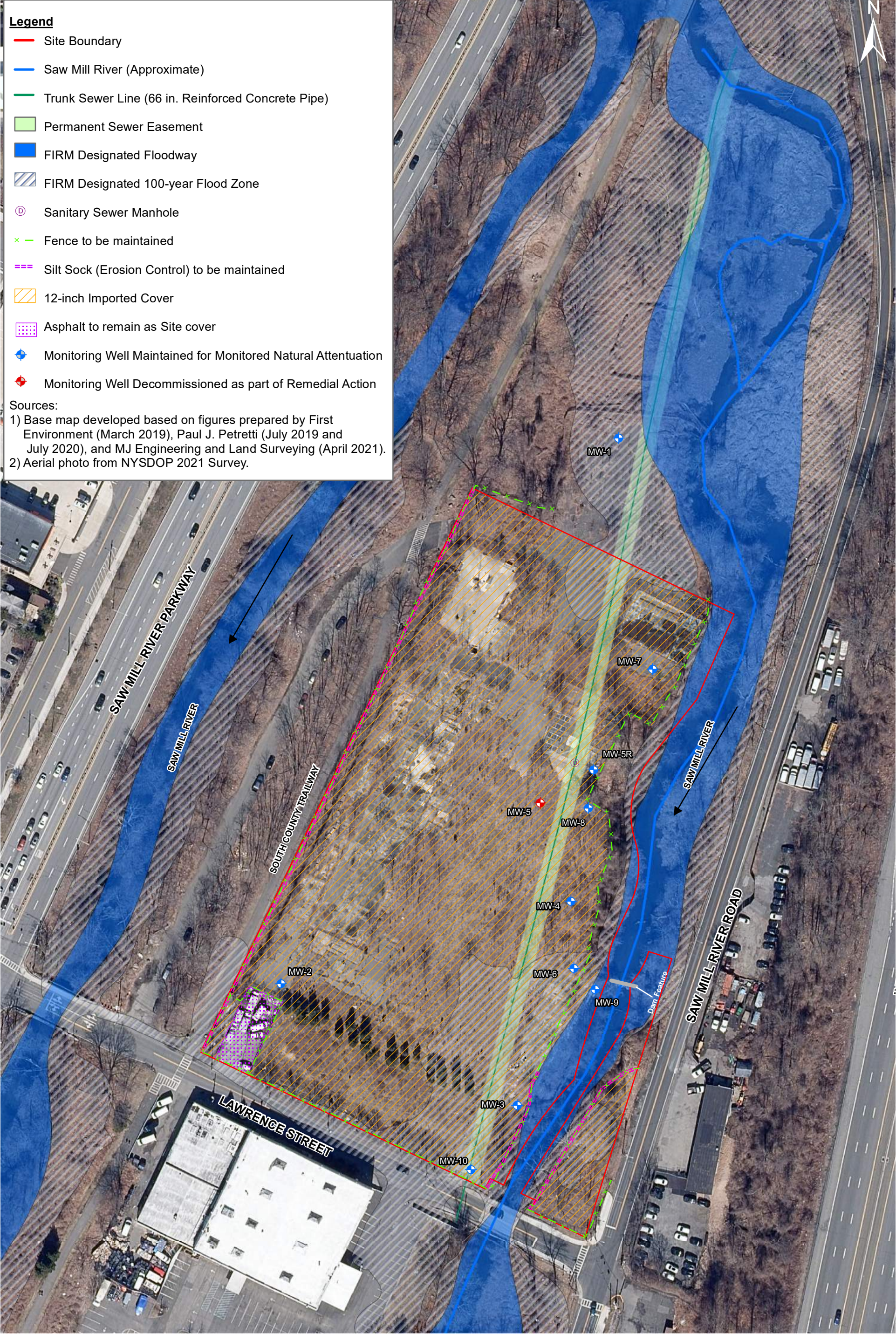
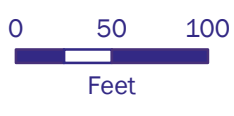


FIGURE 7
ENGINEERING CONTROLS LOCATION (COVER/FENCE)
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



Legend

- Site Boundary
- Saw Mill River (Approximate)
- Area with Potential for Soil Vapor Intrusion
- Remaining Asphalt/Pavement
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement
- FIRM Designated Floodway

Sources:
 1) Base map developed based on figures prepared by First Environment (March 2019), Paul J. Petretti (July 2019 and July 2020) and MJ Engineering and Land Surveying (April 2021).
 2) Aerial photo from NYSDOP 2021 Survey.

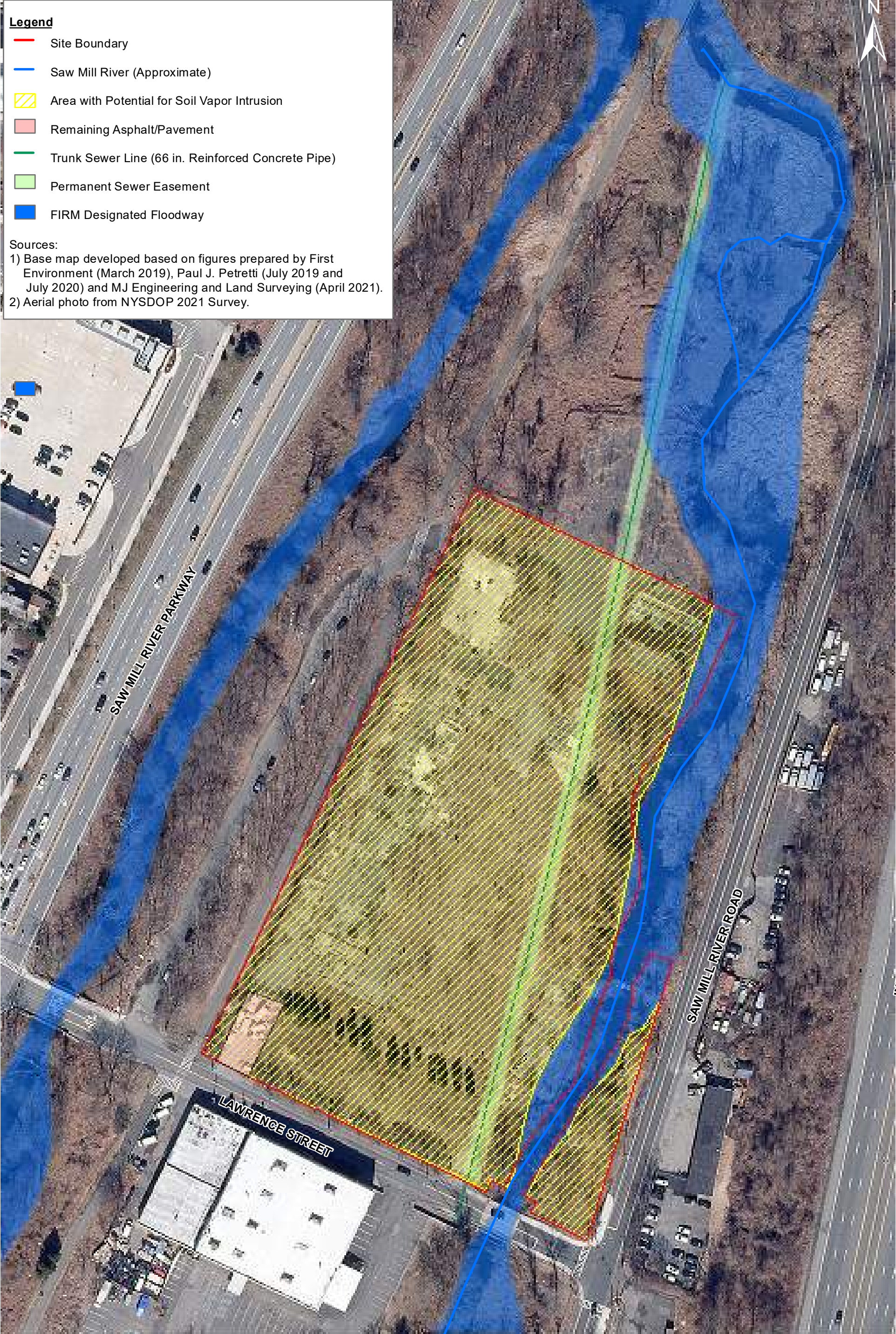
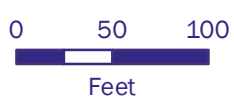


FIGURE 8
AREA OF POTENTIAL SOIL VAPOR INTRUSION CONCERN
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



APPENDIX A – LIST OF SITE CONTACTS

Name	Phone/Email Address
Site Owner(s)/Remedial Party Ardsley LLC – Michael Roberts	<u>mroberts@cdcco.com</u> (917) 939-8377
Lawrence Ardsley LLC – John P. Antanelli	jpantanelli3@icloud.com
Qualified Environmental Professional – Brian Taylor, PG (Brown and Caldwell Associates)	(518)560-5910 bftaylor@brwnald.com
Remedial Engineer – Marek Ostrowski, PE (Brown and Caldwell Associates)	(201)574-4700 mostrowski@brwnald.com
NYSDEC DER Project Manager – Ryan Richard	(845)256-3118 Ryan.Richard@dec.ny.gov
NYSDEC DER Project Manager’s Supervisor David Pollock	(845)256-3138 david.pollock@dec.ny.gov
NYSDEC Site Control – Kelly Lewandowski	(518)402-9553 kelly.lewandowski@dec.ny.gov
NYSDOH Project Manager – Kristin Kulow	(607)432-3911 kristin.kulow@health.ny.gov
Remedial Party Attorney – Christopher Rausch	crausch@cdcco.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 or breach or alter the Site’s cover system, the Site owner or its representative will notify the NYSDEC contacts listed in the table below. Table B-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 B-1: Notifications*

NYSDEC Project Manager - Ryan Richard	845-256-3118 Ryan.Richard@dec.ny.gov
NYSDEC DER Project Manager’s Supervisor - David Pollock	(845)256-3138 david.pollock@dec.ny.gov
NYSDEC Site Control – Kelly Lewandowski	(518)402-9553 kelly.lewandowski@dec.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, any modifications of truck routes, 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, 29 CFR 1910.120 and 29 CFR 1926 Subpart P;

- A copy of the contractor's health and safety plan (HASP), in electronic format, if it differs from the HASP provided in Appendix H of this SMP;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with the required request to import form and all supporting documentation including, but not limited to, chemical testing results.

The NYSDEC project manager will review the notification and may impose additional requirements for the excavation that are not listed in this EWP.

B-2-2 SOIL SCREENING METHODS

Visual, olfactory and photoionization detector (PID) soil screening will be performed during all excavations into known or potentially contaminated material (remaining contamination) or a breach of the cover system. A qualified environmental professional (QEP) as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State will perform the screening. 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. 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 when not in use 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.

All equipment, vehicles, materials, and personnel used to maintain the stockpile area will undergo decontamination procedures prior to leaving the stockpile area and accessing other “clean” areas of the Site. Handling of excavated material will be kept to a minimum to reduce the potential for contaminants being released to the environment.

B-4 MATERIALS EXCAVATION AND LOAD-OUT

A QEP as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State 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 QEP. 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. A Site utility stakeout will be completed for all utilities prior to any ground intrusive activities at the Site.

The amount of exposed excavation during construction activities will be minimized whenever possible. At the end of each workday, exposed excavations will be secured to prevent potential contact with contaminated soils. In addition to securing exposed excavations, erosion and sediment control measures must be followed through the use of silt fencing, hay bales, mulch, or other methods approved by the QEP.

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 QEP 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 QEP 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. Material accumulated from the street cleaning and egress cleaning activities will be disposed off-Site at a permitted landfill facility in accordance with all applicable local, State, and Federal regulations.

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.

Trucks will enter and exit the Site on Lawrence Street and access destinations via Saw Mill River Road (Route 9a) to the east of the Site. Saw Mill River Parkway, to the west of the Site, is closed to trucks. 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, below the Site cover/demarcation layer, will be treated as contaminated and regulated material and will be transported and disposed off-Site in a permitted facility in accordance with all local, State and Federal regulations. If disposal of material from this Site is proposed for beneficial reuse under a BUDs defined in 6 NYCRR Part 360.13, or 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 project manager. Unregulated off-Site management of materials from this Site will not occur without formal NYSDEC project manager 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, (e.g. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C&D debris recovery facility, beneficial reuse site, etc.) Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include, but will not be limited to: 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 consistent with 6 NYCRR Parts 360, 361, 362, 363, 364 and 365. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State C&D debris recovery facility (6 NYCRR Subpart 360-15 registered or permitted facility).

B-7 MATERIALS REUSE ON-SITE

The QEP as defined in 6 NYCRR part 375 will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material (i.e. contaminated) does not remain 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, within landscaping berms, or as backfill for subsurface utility lines.

Proposed materials for reuse on-Site must be sampled for full suite analytical parameters including per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane. The sampling frequency will be in accordance with DER-10 Table 5.4(e)10 unless prior approval is obtained from the NYSDEC project manager for modification of the sampling frequency. The analytical results of soil/fill material testing must meet the Site use criteria presented in NYSDEC DER-10 Appendix 5 – Allowable Constituent Levels for Imported Fill or Soil for all constituents listed, and the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances [November 2022 or date of current version, whichever is later] guidance values. Approvals for modifications to the analytical parameters must be obtained from the NYSDEC project manager prior to the sampling event.

Soil/fill material for reuse on-Site will be segregated and staged as described in Sections B-2 and B-3 of this EWP. The anticipated size and location of stockpiles will be provided in the 15-day notification to the NYSDEC project manager. Stockpile locations will be based on the location of Site excavation activities and proximity to nearby Site features. Material reuse on-Site will comply with requirements of NYSDEC DER-10 Section 5.4(e)4. Any modifications to the requirements of DER-10 Section 5.4(e)4 must be approved by the NYSDEC project manager.

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 off-Site at a permitted

facility 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.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

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 Decision Document. The existing cover system is comprised of a minimum of 12 inches of clean fill/soil and asphalt pavement. The demarcation layer, consisting of orange geotextile or equivalent material will be replaced 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 QEP, as defined in 6 NYCRR Part 375, and will comply with the 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, 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 6 NYCRR 375-6.7(d) and DER-10 Appendix 5 for commercial use and for Protection of Groundwater. Soils that meet ‘general’ fill requirements under 6 NYCRR Part 360.13, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the

Site without prior approval by NYSDEC project manager. Soil material will be sampled for the full suite of analytical parameters, including PFAS and 1, 4-dioxane. 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

Erosion and sediment controls installed at the conclusion of the remedial action, including silt sock located within Site fencing along portions of the Saw Mill River (east side of Site) and the bike trail (west side of Site), will be maintained. Refer to SMP Figure 7 and Appendix I for location of silt sock.

For excavations less than 1 acre, procedures for stormwater pollution prevention are specified herein. For excavations exceeding 1 acre, a Stormwater Pollution Prevention Plan that conforms to the requirements of the NYSDEC Division of Water guidelines and NYS regulations will be submitted beforehand to the NYSDEC.

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. The NYSDEC project manager will be promptly notified of the discovery.

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 (including 1,4-dioxane), TCL pesticides and PCBs, and PFAS], unless the site history and previous sampling results provide sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC project manager for approval prior to sampling. Any tanks will be closed as per NYSDEC regulations and guidance.

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone within two hours 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

The locations of monitoring stations 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.

This Community Air Monitoring Plan (CAMP) has been prepared in accordance with the requirements of the NYSDOH, Generic Community Air Monitoring Plan as contained in Appendix 1A of DER-10. The CAMP serves to provide specific procedures for measuring, documenting, and responding to potential airborne contaminants during the remedial construction activities. The CAMP will be implemented to reduce risk of potential exposure of Site contaminants to neighboring residents.

The CAMP is designed to:

- Provide monitoring, action levels, and contingency procedures to prevent exposure of Site workers and nearby residents to potential volatile contaminants.
- Provide a contingency plan that prevents significant airborne contaminant release from the Site.

During excavation activities, work zone and fence line perimeter air monitoring will be conducted using a combination of real-time continuous air monitoring at least one fixed up-wind and two down-wind locations and work zone monitoring using hand-held instruments.

The CAMP defines several action levels for respirable dust and increasing response actions for each level. The response actions, potentially including work stoppage, will prevent or significantly reduce the migration of respirable dust from the Site.

Continuous Air Monitoring

Continuous monitoring of particulates and VOCs will be conducted at each of the air monitoring stations. Real-time data will be recorded in 15-minute intervals. Continuous monitoring will be conducted throughout the duration of the excavation activities. Monitoring will occur continuously during working hours at each of the stations. Alarms will be identified by visually reviewing each air monitoring station and the data generated. Alarms will be triggered when recorded levels exceed action levels. Data will be downloaded once every 24 hours by on-Site oversight personnel.

Station Layout

The station layout should encompass the work zones in which the remedial activities will be implemented. The station layout may be modified daily based upon the prevailing wind direction and based on the construction activities being performed each day. The station layout will be recorded in the daily field reports generated during documentation of the implementation of the remedial activities.

Analytical Instrumentation

Each monitoring station will be equipped with a calibrated particulate meter and a calibrated PID with a lamp strength of 10.6 eV for continuous measurement of air quality parameters in the ambient air. The particulate meter will be a real-time aerosol monitor (RAM) such as a mini-RAM or equivalent. The particulate meters and PID will be configured to provide 15-minute time-weighted average (TWA) values. Instrumentation will be housed in weather tight enclosures.

Meteorological System

A meteorological station will be installed at the Site to measure wind speed, direction, ambient temperature, and relative humidity. The system computes the five-minute running average wind direction which will be used to identify which of the monitoring stations is upwind, downwind, or crosswind. Wind direction may also be used as the basis for potential re-location of air monitoring stations prior to or during the initiation of remedial activities at a particular portion of the Site. Meteorological data will be stored electronically.

Action Levels

Action levels are designated with either a “Green,” “Yellow,” “Orange,” or “Red” status. These color-coded levels correspond to points at which the Air Monitoring Manager will be notified that the activities being performed are having an impact on air quality and that immediate mitigation is necessary (e.g., control measures are to be implemented). The mitigation/control measures shall be determined by the excavation contractor. The types of mitigation measures which the excavation contractor may choose to use include, but are not limited to:

- Application of suppressant foam or liquid
- Wetting of soil and other media or other means to control dust
- Modification of work activities

Due to the industrial nature of the area surrounding the Site, elevated levels of ambient (background) suspended particulates and VOCs may occur. The presence of upwind and downwind monitoring is critical to assess whether action level conditions are the result of remedial activities or are the result of ambient (background) conditions (i.e., migration from upgradient or localized conditions).

Procedures

This section outlines the routine and contingency procedures for implementation of the CAMP. The air monitoring activities will be directed by the Air Monitoring Manager.

Community Air Monitoring Program Schedule

Baseline Monitoring

Prior to commencement of excavation activities, monitoring will be conducted to establish baseline conditions and evaluate the potential range of background concentrations that may be present during implementation of the remedy. To establish baseline conditions, continuous monitoring will be performed at the monitoring stations for a minimum of eight hours.

Weekly Monitoring

Continuous air monitoring will be executed for the duration of excavation activities when there is the potential for exposure to Site-related contaminants. Particulates and VOC data will be monitored via the at least three monitoring stations at adjusted locations based on daily wind conditions for the entire workday.

Routine Procedures

Routine air monitoring procedures will consist of the following:

- Daily inspection of the monitoring stations to confirm that they are secure and operating properly. Check for damage, loss of air flow, dirt or moisture buildup, and replace inlet filters, as necessary, or as prescribed by the manufacturer of the monitoring equipment.
- Daily calibration of PIDs in accordance with manufacturer specifications. Calibration frequency may be modified, as appropriate, based on communication with manufacturer/vendor.
- Daily calibration of particulate meters in accordance with manufacturer specifications. Calibration frequency may be modified, as appropriate, based on communication with manufacturer/vendor.
- Daily inspection of operational set points on PIDs.
- Daily inspection of operational set points on particulate meters.
- Daily inspection of the meteorological station for proper operation.
- Troubleshooting of potential system issues.
- Observe baseline conditions, including particulate levels and meteorological data. Based on wind direction, adjust location of air monitoring stations, as appropriate.
- Monitor each station throughout the workday for action level conditions.
- Generate daily field reports. Document system troubleshooting, station layout adjustments, action level conditions and corresponding response actions, if any.
- Back-up air monitoring data stored electronically on the central computer system onto thumb drive or other suitable transportable media (minimum weekly). On a weekly basis, transport back-up files off Site to a remote project record file.

Response Procedures

The “red” action level for community air monitoring at the Site is 5 parts per million (ppm) for VOCs and 150 micrograms per cubic meters ($\mu\text{g}/\text{m}^3$) for particulate matter (PM₁₀). The system will be monitored every 15 minutes for potential exceedances of the established yellow/orange/red action level(s) as described below. The lower action levels have been established to implement control measures before reaching the stop work (“Red”) action level. A visible alarm will be utilized at the Site.

Due to the active commercial/industrial operations surrounding the Site, elevated levels of ambient VOCs and suspended particulates are anticipated. As a result, the presence of upwind and work zone monitoring is critical to assess whether action level conditions are the result of remedial activities or ambient (background) conditions (i.e., migration from upgradient or localized conditions). Work would not be halted, or control measures implemented until upwind and work zone readings are compared to the continuous monitoring readings, with the exception of visible dust or odoriferous conditions.

The following steps outline the procedures the Air Monitoring Manager shall follow in response to action level conditions:

1. Identify whether the station is upwind, downwind, or crosswind to the work area.
 - a. If station is upwind, then continue work with air monitoring. Note the condition and response in the Daily Field Report.
 - b. If station is downwind or crosswind, then proceed to Step 2.
2. Compare the reading to upwind readings.
 - a. If the upwind reading is above action levels, then continue work with air monitoring. Note the condition and response in the Daily Field Report.
 - b. If the upwind reading is below action levels, then proceed to Step 3.
3. Determine the difference between the readings obtained at the upwind and downwind stations. Based on visual determination, assess whether the exceedance is due to a localized ambient (background) condition (i.e., dust from upwind sites or roadways) in the vicinity of the station:
 - a. If it is suspected that the reading is not the result of a localized ambient (background) condition, then inform the excavation contractor to take corrective action. Note the condition, response and corrective actions implemented by the excavation contractor in the Daily Field Report.

- b. If it is suspected that the reading is the result of a localized background condition, then obtain readings from the downwind boundary of the work zone with a handheld instrument and compare to the station reading.
 - i. If the work zone reading is less than station reading, then continue work with air monitoring. Note the condition and response in the Daily Field Report.
 - ii. If work zone reading is greater than station reading, then inform the excavation contractor to take corrective action. Note the condition, response and corrective actions implemented by the excavation contractor in the Daily Field Report.

Visible dust emanating from the work area will require immediate implementation of dust control measures without progressing through the steps outlined above.

VOCs

If remedial activities result in a concentration of total VOCs at the downwind perimeter of the work area in excess of 5 ppm over background, activities will be managed in accordance with the NYSDOH Generic CAMP guidance as follows:

- If the concentration of total VOCs at the downwind perimeter of the work area exceeds 5 ppm over background, but less than 25 ppm, for a 15-minute average, work activities will be temporarily halted and monitoring continued. If concentrations drop rapidly, work activities can resume with continued monitoring.
- If concentrations between 5 ppm and 25 ppm above background persist, work must be stopped, and the source of the vapors identified and mitigated. Mitigation measures may include engineering controls such as application of foam and modification of work protocols (e.g., excavation procedures). After work activities resume, the total VOC concentration at the contingency location (defined as 200 feet downwind of the work area or half the distance to the nearest receptor, whichever is less) must remain below 5 ppm on a 15-minute-averaged basis.
- If the concentrations exceed 25 ppm at the perimeter of the work areas, the remedial activities will be halted. Air sampling in accordance with this CAMP will continue in the event that elevated PID levels are detected, so that this information will be available to assess the potential impacts to off-Site receptors or to develop mitigation measures.

Particulates

The tiered action levels presented below are more conservative than those prescribed in the NYSDOH Generic CAMP protocol. Dust suppression levels are implemented at the yellow action level (initially 75 µg/m³ of PM₁₀). The NYSDOH CAMP provides the following guidance:

- If the concentration of total PM₁₀ particulates at the downwind perimeter of the work area exceeds 100 µg/m³ over background for a 15-minute average, dust suppression techniques must be instituted.
- Work may continue after employment of dust suppression as long as the downwind perimeter PM₁₀ levels are below 150 µg/m³ over background and there is no visible dust emanating from the Site.
- If levels below 150 µg/m³ cannot be achieved, work must stop and can only resume when additional controls are successful in keeping perimeter dust levels less than 150 µg/m³ above background.

Communication Plan

Any “Red” stop-work condition, the associated control measures taken by the excavation contractor and the recommencement of remedial activities will each be immediately communicated to the Air Monitoring Manager upon occurrence. The Air Monitoring Manager will also be notified if response actions are not implemented according to this plan.

A weekly report summarizing the results of the Daily Air Monitoring Field Reports, including any action level conditions and the actions taken to control emissions from the Site, will be discussed at Progress Meetings and documented in the meeting minutes.

Volatile Organic Compound Action Levels

In accordance with the NYSDOH Generic CAMP, if the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 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. To mitigate the chance that remedial activities will generate air impacts at or in excess of 5 ppm above background, a tiered approach to alarm levels consisting of a lower (yellow) action level and a mid-action level (orange) will be established. Mitigation/control measures will be implemented based on the level of the alarm, progressively becoming more urgent until a halt work is required. The alarm will be triggered based on total levels, but work would not be halted, or any mitigation measures implemented unless the differential between background and downwind readings exceeds the action levels.

VOC data from continuous monitoring will be used to calculate 15-minute TWA values for comparison to the action level.

The following are the action levels for VOCs:

Action Level	Response
Below 2.5 ppm above background for the 15-minute average	Continue and/or resume work activities
> 2.5 ppm to <3.7 ppm above background (15-minute average) or if odors are observed	Notify contractor of need to implement mitigation measures. Employ dust suppression techniques or modify work activities.
>3.7 to <5 ppm above background (15-minute average) or if odors are observed	Notify contractor of need to implement more aggressive mitigation measures. Work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions and continue monitoring.
> 5 ppm above background (15-minute average) or if odors are observed	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. Contact PM immediately.
>5 ppm to <25 ppm above background (15-minute average)	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. Contact PM immediately.
>25 ppm above background (15-minute average)	Activities must be shutdown. Contact PM immediately.

The 15-minute readings will be recorded and maintained. Instantaneous readings, if any, used for decision making purposes will also be recorded.

PM10 Action Levels

In accordance with the NYSDOH Generic CAMP protocol, the action level for perimeter air monitoring at the Site is 150 µg/m3 of respirable particulate matter above background for the 15-minute average. Particulates that are 10 microns or smaller and are considered respirable are known as PM10. No visible dust can be seen migrating from the

work area. Particulate data from continuous monitoring will be used to calculate 15-minute TWA values for comparison to the action level.

To mitigate the chance that remedial activities will generate visible dust or air impacts at or above 150 µg/m³ above background, a tiered approach to alarm levels consisting of a lower (yellow) action level and a mid-action level (orange) will be established. Mitigation/control measures will be implemented based on the level of the alarm progressively becoming more urgent until a halt work is required. The alarm will be triggered based on total levels, but work would not be halted, or any mitigation measures implemented unless the differential between background and downwind readings exceeded the action levels.

The following are the action levels for particulates:

Action Level	Response
Below 75 µg/m ³ above background for the 15-minute average	Continue and/or resume work activities
> 75 to < 100 µg/m ³ above background for the 15-minute average or if airborne dust is observed leaving the work area	Dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM10 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.
>100 to <150 µg/m ³ above background for the 15-minute average or if airborne dust is observed leaving the work area	Notify contractor of need to implement more aggressive mitigation measures. Work may continue with dust suppression techniques provided downwind PM10 particulate levels do not exceed 150 µg/m ³ above background for the 15-minute average and airborne dust is not observed leaving the work area.
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 PM10 particulate concentration to within 150 mcg/m ³ of the upwind level and in preventing visible dust migration. Contact PM immediately.

The 15-minute readings will be recorded and be maintained.

B-14 ODOR CONTROL PLAN

The soils subject to this Excavation Work Plan do not emit nuisance odors and, therefore, odor control measures are not included herein.

B-15 DUST CONTROL PLAN

Particulate monitoring must be conducted according to the CAMP provided in Section B-13. If particulate levels at the Site exceed the thresholds listed in the CAMP or if airborne dust is observed on the Site or leaving the Site, the dust suppression techniques listed below will be employed. The remedial party will also take measures listed below to prevent dust production on the Site.

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 using 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 areas 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 for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work. Nuisance of rodents and/or burrowing animals is specific to sediment and erosion controls based on previously observed evidence.

APPENDIX C
RESPONSIBILITIES of
OWNER and REMEDIAL PARTY

Responsibilities

The responsibilities for implementing the Site Management Plan (“SMP”) for the Ardsley LLC Site (the “Site”), number C360146, are currently retained by the Remedial Parties (Ardsley LLC and Lawrence Ardsley LLC). Upon sale of the property, it is anticipated that responsibilities will be solely borne by the Purchaser, Lawrence Ardsley LLC. Lawrence Ardsley LLC will take responsibility for inspections, post-remedial groundwater monitoring, MNA monitoring, submittal of PRR. maintenance of Site cover and future installation and operation of vapor mitigation systems (if any). The Remedial Parties subject to an Amended BCA as ownership transitions through issuance of the COC is/are currently listed as:

Ardsley LLC (the “owner/Seller”) and Lawrence Ardsley LLC (Purchaser)

Solely for the purposes of this document and based upon the facts related to the Site and the remedial program being carried out, the term Remedial Party (“RP”) refers to any of the following: certificate of completion holder, volunteer, applicant, responsible party, and, in the event the New York State Department of Environmental Conservation (“NYSDEC”) is carrying out remediation or Site management, the NYSDEC and/or an agent acting on its behalf. The RP is:

Ardsley LLC
1515 Des Peres Rd, Suite 300
St. Louis, Missouri 63131

Lawrence Ardsley LLC
150 Old Mamaroneck Rd.
White Plains, NY 10605

Nothing on this page shall supersede the provisions of an Environmental Easement, Consent Order, Consent Decree, agreement, or other legally binding document that affects rights and obligations relating to the Site.

Site Owner’s Responsibilities:

- 1) The owner shall follow the provisions of the SMP as they relate to future construction and excavation at the Site.

- 2) In accordance with a periodic time frame determined by the NYSDEC, the owner shall periodically certify, in writing, that all Institutional Controls set forth in an Environmental Easement remain in place and continue to be complied with. The owner shall provide a written certification to the RP, upon the RP's request, in order to allow the RP to include the certification in the Site's Periodic Review Report (PRR) certification to the NYSDEC.
- 3) In the event the Site is delisted, the owner remains bound by the Environmental Easement and shall submit, upon request by the NYSDEC, a written certification that the Environmental Easement is still in place and has been complied with.
- 4) The owner shall grant access to the Site to the RP and the NYSDEC and its agents for the purposes of performing activities required under the SMP and assuring compliance with the SMP.
- 5) The owner is responsible for assuring the security of the remedial components located on its property to the best of its ability. If damage to the remedial components or vandalism is evident, the owner shall notify the Site's RP and the NYSDEC in accordance with the timeframes indicated in Section 1.3-Notifications.
- 6) If some action or inaction by the owner adversely impacts the Site, the owner must notify the Site's RP and the NYSDEC in accordance with the time frame indicated in Section 1.3- Notifications and coordinate the performance of necessary corrective actions with the RP.
- 7) The owner must notify the RP and the NYSDEC of any change in ownership of the Site property (identifying the tax map numbers in any correspondence) and provide contact information for the new owner of the Site property. Section 1.3 of the SMP contains notification requirements applicable to any construction or activity changes and changes in ownership. Among the notification requirements is the following: Sixty days prior written notification must be made to the NYSDEC. Notification is to be submitted to the NYSDEC Division of Environmental Remediation's Site Control Section. A change of use includes, but is not limited to, any activity that may increase direct human or environmental exposure (e.g., day care, school or park). A 60-Day Advance Notification Form and Instructions are found at <http://www.dec.ny.gov/chemical/76250.html>.
- 8) The owner will maintain Site cover materials and maintain fences as needed on behalf of the RP. The RP remains ultimately responsible for maintaining the engineering controls.

- 9) If the construction of buildings requires the installation, operation, and/or maintenance of an on-Site vapor intrusion mitigation system, the owner shall operate the system, pay for the utilities for the system's operation, and report any maintenance issues to the RP and the NYSDEC.
- 10) In accordance with the tenant notification law, within 15 days of receipt, the owner must supply a copy of any vapor intrusion data, that is produced with respect to structures and that exceeds NYSDOH or OSHA guidelines on the Site, whether produced by the NYSDEC, RP, or owner, to the tenants on the property. The owner must otherwise comply with the tenant and occupant notification provisions of Environmental Conservation Law Article 27, Title 24.

Remedial Party Responsibilities

- 1) The RP must follow the SMP provisions regarding any construction and/or excavation it undertakes at the site.
- 2) The RP shall report to the NYSDEC all activities required for remediation, operation, maintenance, monitoring, and reporting. Such reporting includes, but is not limited to, periodic review reports and certifications, electronic data deliverables, corrective action work plans and reports, and updated SMPs.
- 3) Before accessing the Site property to undertake a specific activity, the RP shall provide the owner advance notification that shall include an explanation of the work expected to be completed. The RP shall provide to (i) the owner, upon the owner's request, (ii) the NYSDEC, and (iii) other entities, if required by the SMP, a copy of any data generated during the Site visit and/or any final report produced.
- 4) If the NYSDEC determines that an update of the SMP is necessary, the RP shall update the SMP and obtain final approval from the NYSDEC. Within 5 business days after NYSDEC approval, the RP shall submit a copy of the approved SMP to the owner(s).
- 5) The RP shall notify the NYSDEC and the owner of any changes in RP ownership and/or control and of any changes in the party/entity responsible for the operation, maintenance, and monitoring of and reporting with respect to any Engineering Controls. The RP shall provide contact information for the new party/entity. Such activity constitutes a Change of Use pursuant to 375-1.11(d) and requires 60-days prior notice to the NYSDEC. A 60-Day Advance Notification Form and Instructions are found at <http://www.dec.ny.gov/chemical/76250.html> .
- 6) The RP shall notify the NYSDEC of any damage to or modification of the systems as required under Section 1.3- Notifications of the SMP.

- 7) Prior to a change in use that impacts the remedial system or requirements and/or responsibilities for implementing the SMP, the RP shall submit to the NYSDEC for approval an amended SMP.

- 8) Any change in use, change in ownership, change in Site classification (*e.g.*, delisting), reduction or expansion of remediation, and other significant changes related to the Site may result in a change in responsibilities and, therefore, necessitate an update to the SMP and/or updated legal documents. The RP shall contact the NYSDEC project manager to discuss the need to update such documents.

Change in RP ownership and/or control and/or Site ownership does not affect the RP's obligations with respect to the Site unless a legally binding document executed by the NYSDEC releases the RP of its obligations.

Future Site owners and RPs and their successors and assigns are required to carry out the activities set forth above.

APPENDIX D – ENVIRONMENTAL EASEMENT

The Office of the Westchester County Clerk: This page is part of the instrument; the County Clerk will rely on the information provided on this page for purposes of indexing this instrument. To the best of submitter's knowledge, the information contained on this Recording and Endorsement Cover Page is consistent with the information contained in the attached document.



602803786EAS0054

Westchester County Recording & Endorsement Page

Submitter Information

Name:	Ardsley LLC	Phone:	314-835-2880
Address 1:	1515 Des Peres Rd	Fax:	314-835-1616
Address 2:	Suite 300	Email:	blydon@cdcco.com
City/State/Zip:	St Louis MO 63131	Reference for Submitter:	Ardsley LLC Environmental Easement

Document Details

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Parties

Additional Parties on Continuation page

1st PARTY		2nd PARTY	
1:	ARDSLEY LLC	- Other	1: NEW YORK STATE DEPT OF ENVIRONMENTAL CONSERV - Other
2:			2: NEW YORK STATE OF - Other

Property

Additional Properties on Continuation page

Street Address:	1 LAWRENCE	Tax Designation:	008.37-265-1
City/Town:	GREENBURGH	Village:	

Cross-References

Additional Cross-Refs on Continuation page

1:	2:	3:	4:
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Supporting Documents

1: TP-584

Recording Fees

Statutory Recording Fee:	\$40.00
Page Fee:	\$55.00
Cross-Reference Fee:	\$0.00
Mortgage Affidavit Filing Fee:	\$0.00
RP-5217 Filing Fee:	\$0.00
TP-584 Filing Fee:	\$5.00
RPL 291 Notice Fee:	\$0.00
Total Recording Fees Paid:	\$100.00

Mortgage Taxes

Document Date:	
Mortgage Amount:	
Basic:	\$0.00
Westchester:	\$0.00
Additional:	\$0.00
MTA:	\$0.00
Special:	\$0.00
Yonkers:	\$0.00
Total Mortgage Tax:	\$0.00

Transfer Taxes

Consideration:	\$0.00
Transfer Tax:	\$0.00
Mansion Tax:	\$0.00
Transfer Tax Number:	18926

Dwelling Type:	Exempt: <input type="checkbox"/>
Serial #:	

RECORDED IN THE OFFICE OF THE WESTCHESTER COUNTY CLERK



Recorded: 10/20/2020 at 02:40 PM

Control Number: **602803786**

Witness my hand and official seal

Timothy C. Idoni
Westchester County Clerk

Record and Return To

Pick-up at County Clerk's office

EnviroAnalytics Group.com
1515 Des Peres Rd. Ste. 300

St. Louis, MO 63131

Attn: Daniel Dunn

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

THIS INDENTURE made this 15th day of September, 2020, between Owner Ardsley LLC, having an office at 1515 Des Peres Road, Suite 300, St. Louis, Missouri 63131, (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 having a mailing address of 1 Lawrence Street (a/k/a 00 Saw Mill River Road on current assessment roll) 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 8.370 Block 265 Lot 1, being a portion of the property conveyed to Grantor by deed dated May 25, 2017 and recorded in the Westchester County Clerk's Office as Control # 571363465. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 6.2535 +/- acres, and is hereinafter more fully described in the Land Title Survey dated July 9, 2019 and last revised August 24, 2020 prepared by Paul J. Petretti, L.L.S., 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: C360146-03-18, 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:

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 or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), 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: C360146
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.

Remainder of Page Intentionally Left Blank

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

Ardsley LLC:

By: M Roberts

Print Name: Michael Roberts

Title: Member Date: 9-10-2020

Grantor's Acknowledgment

STATE OF MISSOURI)
) ss:
COUNTY OF ST. LOUIS)

On the 10 day of Sept, in the year 2020, before me, the undersigned, personally appeared Michael Roberts 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.

Rebecca Lydon
Notary Public

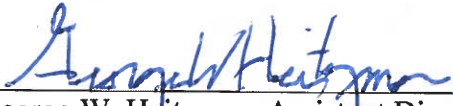


REBECCA LYDON
My Commission Expires
November 1, 2021
St. Louis County
Commission #13540330



REBECCA LYDON
My Commission Expires
November 1, 2021
St. Louis County
Commission #13540330

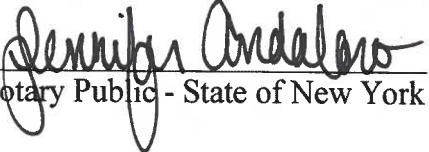
THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: 
George W. Heitzman, Assistant Director
Division of Environmental Remediation

Grantee's Acknowledgment

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

On the 15th day of September, in the year 2020 before me, the undersigned, personally appeared George W. Heitzman, 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

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 2024



SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND SITUATE, LYING AND BEING IN THE TOWN OF GREENBURGH, COUNTY OF WESTCHESTER AND STATE OF NEW YORK, KNOWN AND DESIGNATED AS SECTION 8.370, BLOCK 265, LOT 1, AND MORE ACCURATELY DESCRIBED AS FOLLOWS:

BEGINNING AT POINT AT THE INTERSECTION OF THE NORTHERLY LINE OF LAWRENCE STREET AND THE WESTERLY LINE OF THE FORMER RAILROAD RIGHT-OF-WAY AS SHOWN ON A CERTAIN FILED MAP ENTITLED SHEET 32 OF 59 SURVEY OF A PORTION OF LANDS BELONGING TO CONRAIL (PUTNAM DIVISION) SITUATE IN THE VILLAGE OF DOBBS FERRY, TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK. SAID MAP FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE, DIVISION OF LAND RECORDS AS MAP NO. 24547 FILED DECEMBER 19, 1991. SAID POINT AND PLACE OF BEGINNING BEING DISTANT THE FOLLOWING COURSES AND DISTANCES FROM A SET OF NEW YORK STATE PLANE EAST ZONE COORDINATES SHOWN THE AFORESAID FILED MAP N: 790,678.0872, E: 669,874.8524, NORTH 25 DEGREES 41 MINUTES 34 SECONDS EAST 50.00 FEET AND SOUTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 66.00 FEET TO THE POINT AND PLACE OF BEGINNING.

THENCE FORM THE SAID POINT AND PLACE OF BEGINNING THE FOLLOWING COURSE AND DISTANCES NORTH 25 DEGREES 41 MINUTES 34 SECONDS EAST 700.01 FEET TO THE SOUTHEAST CORNER OF DANFORTH AVENUE

THENCE SOUTH 64 DEGREES 18 MINUTES 26 SECONDS EAST 352.12 FEET, ALONG THE AFOREMENTIONED DANFORTH AVENUE,

THENCE, NORTH 22 DEGREES 05 MINUTES 00 SECONDS EAST 124.42 FEET TO THE BEGINNING OF A CURVE, SAID CURVE TURNING TO THE RIGHT THROUGH AN ANGLE OF 16 DEGREES 35 MINUTES 02 SECONDS, HAVING A RADIUS OF 180.00 FEET AND AN ARC LENGTH OF 52.10 FEET TO A POINT OF TANGENCY,

THENCE, SOUTH 38 DEGREES 40 MINUTES 02 SECONDS WEST 40.00 FEET TO THE BEGINNING OF A CURVE, SAID CURVE TURNING TO THE RIGHT THROUGH AN ANGLE OF 54 DEGREES 34 MINUTES 12 SECONDS, HAVING A RADIUS OF 55.00 FEET AND AN ARC LENGTH OF 52.38 FEET TO A POINT OF REVERSE CURVATURE, SAID CURVE TURNING TO THE RIGHT THROUGH AN ANGLE OF 37 DEGREES 55 MINUTES 47 SECONDS, HAVING A RADIUS OF 146.00 FEET AND AN ARC LENGTH OF 96.65 FEET TO A POINT OF TANGENCY,

THENCE, SOUTH 22 DEGREES 01 MINUTES 38 SECONDS WEST 35.00 FEET,

THENCE, SOUTH 72 DEGREES 42 MINUTES 42 SECONDS WEST 59.00 FEET,

THENCE SOUTH 17 DEGREES 17 MINUTES 18 SECONDS EAST 325.84 FEET,

THENCE, NORTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 67.98 FEET,

THENCE, NORTH 25 DEGREES 41 MINUTES 34 SECONDS EAST 13.00 FEET,

THENCE, NORTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 56.00 FEET,

THENCE, SOUTH 25 DEGREES 41 MINUTES 34 SECONDS WEST 13.00 FEET,

THENCE, NORTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 352.96 FEET TO THE
POINT AND PLACE OF BEGINNING.

PARCEL AREA = 272,402 S.F. / 6.2535 ACRES

The Office of the Westchester County Clerk: This page is part of the instrument, the County Clerk will rely on the information provided on this page for purposes of indexing this instrument. To the best of submitter's knowledge, the information contained on this Recording and Endorsement Cover Page is consistent with the information contained in the attached document.



622913183EAS006Z

Westchester County Recording & Endorsement Page

Submitter Information

Name: Ardsley LLC Phone: 314-835-2880
Address 1: 1515 Des Peres Rd Fax: 314-835-1616
Address 2: Suite 300 Email: blydon@cdcco.com
City/State/Zip: St Louis MO 63131 Reference for Submitter: Ardsley LLC Environmental Easement A

Document Details

Control Number: **622913183** Document Type: **Easement (EAS)**
Package ID: 2022101800090001006 Document Page Count: 7 Total Page Count: 8

Parties

Additional Parties on Continuation page

1st PARTY		2nd PARTY	
1: ARDSLEY LLC	- Other	1: NEW YORK STATE COMMISSION ON ENVIRONMENTAL Q	- Other
2:		2:	

Property

Additional Properties on Continuation page

Street Address: 0 SAW MILL RIVER RD & LAWRE Tax Designation: 8.370-265-1
City/Town: GREENBURGH Village:

Cross-References

Additional Cross-Refs on Continuation page

1: 602803786 2: 3: 4:

Supporting Documents

1: TP-584

Recording Fees

Statutory Recording Fee:	\$40.00
Page Fee:	\$40.00
Cross-Reference Fee:	\$0.50
Mortgage Affidavit Filing Fee:	\$0.00
RP-5217 Filing Fee:	\$0.00
TP-584 Filing Fee:	\$5.00
RPL 291 Notice Fee:	\$0.00
Total Recording Fees Paid:	\$85.50

Transfer Taxes

Consideration:	\$0.00
Transfer Tax:	\$0.00
Mansion Tax:	\$0.00
Transfer Tax Number:	6067

Mortgage Taxes

Document Date:
Mortgage Amount:

Basic:	\$0.00
Westchester:	\$0.00
Additional:	\$0.00
MTA:	\$0.00
Special:	\$0.00
Yonkers:	\$0.00
Total Mortgage Tax:	\$0.00

Dwelling Type: Exempt:
Serial #:

RECORDED IN THE OFFICE OF THE WESTCHESTER COUNTY CLERK



Recorded: 12/05/2022 at 02:25 PM
Control Number: **622913183**
Witness my hand and official seal

Timothy C. Idoni
Westchester County Clerk

Record and Return To

Pick-up at County Clerk's office

Ardsley LLC
1515 Des Peres Rd.
Ste. 300
St. Louis, MO 63131
Attn: Daniel Dunn

AMENDMENT TO ENVIRONMENTAL EASEMENT

This Amendment to Environmental Easement is made as of this 21st day of November 2022, by and between The People of the State of New York, acting through their Commissioner of the Department of Environmental Conservation (“NYSDEC” or the “Department”) with its headquarters located at 625 Broadway, Albany, New York 12233, and Ardsley, LLC (“Grantor”) having an office at 1515 Des Peres Road, Suite 300, St. Louis, Missouri 63131.

RECITALS

1. Grantor is the owner of certain land known and designated on the tax map of the Town of Greenburgh, County of Westchester and State of New York as tax map parcel number: Section 8.370 Block 265 Lot 1, being a portion of the property conveyed to Grantor by deed dated May 25, 2017 and recorded in the Westchester County Clerk’s Office as Control No. 571363465.
2. The Department and Grantor entered into that certain Environmental Easement (“Easement Agreement”) dated as of September 15, 2020, and recorded in the Westchester County Clerk’s Office on October 10, 2020, as Control No. 602803786. Capitalized terms used herein without definition have the meanings ascribed to them in the Environmental Easement Agreement.
3. Pursuant to Section 1, 2, 3, 4, and 5 of the Easement Agreement, Grantor granted the Department rights and interests that run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of the Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of certain maintenance, monitoring or operation requirements; and to ensure the potential restriction of future uses of the land that are inconsistent with the stated purpose.
4. Pursuant to Section 2 A of the Easement Agreement, the Controlled Property may only be used for Commercial and Industrial uses as described in 6 NYCRR § 375-1.8(g) and may only be used consistent with controls set out in Section 2 A of the Easement Agreement.
5. This Amendment to Environmental Easement is filed solely in order to revise the legal description for the Controlled Property that was attached as Schedule “A” to the Environmental Easement dated as of September 15, 2020, and recorded in the Westchester County Clerk’s Office on October 10, 2020, as Control No. 602803786.
6. Pursuant to Section 8 of the Easement Agreement, the Department agrees to amend the Easement Agreement in the manner prescribed by Article 9 of the Real Property Law.

AMENDMENT OF ENVIRONMENTAL EASEMENT

- A. The above recitals are hereby incorporated into this Amendment of Environmental Easement.
- B. The Department and Grantor hereby agree that the 4th Whereas clause of the Environmental Easement is hereby amended to read as follows:

WHEREAS, Grantor, is the owner of real property located at the address of 1 Lawrence Street 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 8.370 Block 265 Lot 1, being the same as that property conveyed to Grantor by deed dated May 25, 2017 and recorded in the Westchester County Clerk's Office as Control # 571363465. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 6 +/- acres, and is hereinafter more fully described in the Land Title Survey dated October 27, 2009, updated initially on May 10, 2017, and again on January 27, 2022 prepared by Paul J. Petretti, L.L.S., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule "A" – Amended Description of Controlled Property; and

- C. The Department and Grantor hereby agree that the metes and bounds description of the Controlled Property attached hereto as "Schedule "A" – Amended Description of Controlled Property" shall replace the original metes and bounds description attached as Schedule "A" to the September 15, 2020 Environmental Easement.
- D. All other terms of the September 15, 2020 Environmental Easement shall remain in effect.
- E. This Amendment of Environmental Easement inures to and binds the parties hereto and their respective successors and assigns.
- F. This Amendment of Environmental Easement shall be governed by and interpreted in accordance with the laws of the State of New York.

IN WITNESS WHEREOF, Grantor has caused this Amendment to Environmental Easement to be signed in its name.

Ardley LLC:

By: Tom Roberts

Tom Roberts
Manager

Print Name: _____

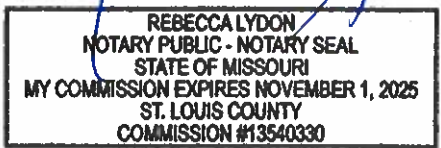
Title: _____ Date: 11-16-22

Grantor's Acknowledgment

STATE OF MISSOURI)
) ss:
COUNTY OF ST. LOUIS)

On the 16 day of Nov, 2022 in the year 2022, before me, the undersigned, personally appeared Tom Roberts, 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.

Rebecca Lydon
Notary Public



THIS AMENDMENT OF THE 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: Andrew Guglielmi
Printed Name Andrew Guglielmi
Title: Director
Division of Environmental Remediation

Grantee's Acknowledgment

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

On the 21st day of November, in the year 2022, before me, the

undersigned, personally appeared Andrew Guglielmi, 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.

Jennifer Andoloro
Notary Public - State of New York

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 2024



SCHEDULE "A" AMENDED DESCRIPTION OF CONTROLLED PROPERTY

**ENVIRONMENTAL EASEMENT DESCRIPTION FOR BROWNFIELD CLEANUP
SITE No. C360146**

ALL that certain plots, pieces or parcels of land situate, lying and being in the Town of Greenburgh, County of Westchester and State of New York, known and designated as Block No. 1, and Block No. 12 as shown on a certain map entitled, "Map No. 1 of the Erhardt, Edwards and Lowerre Syndicate at Chauncey in the Town of Greenburgh, Westchester County, N.Y." filed on April 2, 1981 as Map No. 974.

EXCEPTING that portion of the above described property as acquired by The People of the State of New York by Notice of Appropriation by New York State Department of Transportation dated November 30, 1982 recorded September 26, 1983 in Liber 7865 page 15, as further described on Filed Map No. 21290.

METES & BOUNDS DESCRIPTION WEST OF SAW MILL RIVER
PART OF TAX LOT 008.370-265-1

BEGINNING AT POINT AT THE INTERSECTION OF THE NORTHERLY LINE OF LAWRENCE STREET AND THE WESTERLY LINE OF THE FORMER RAILROAD RIGHT-OF-WAY AS SHOWN ON A CERTAIN FILED MAP ENTITLED SHEET 32 OF 59 SURVEY OF A PORTION OF LANDS BELONGING TO CONRAIL (PUTNAM DIVISION) SITUATE IN THE VILLAGE OF DOBBS FERRY, TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK. SAID MAP FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE, DIVISION OF LAND RECORDS AS MAP NO. 24547 FILED DECEMBER 19, 1991. SAID POINT AND PLACE OF BEGINNING BEING DISTANT THE FOLLOWING COURSES AND DISTANCES FROM A SET OF NEW YORK STATE PLANE EAST ZONE COORDINATES SHOWN THE AFORESAID FILED MAP N: 790,678.0872, E:669,874.8524, NORTH 25 DEGREES 41 MINUTES 34 SECONDS EAST 50.00 FEET AND SOUTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 66.00 FEET TO THE POINT AND PLACE OF BEGINNING.

THENCE FORM THE SAID POINT AND PLACE OF BEGINNING THE FOLLOWING COURSES AND DISTANCES NORTH 25 DEGREES 41 MINUTES 34 SECONDS EAST 700.01 FEET TO THE SOUTHEAST CORNER OF DANFORTH AVENUE AS SHOWN ON R.O. 974, THENCE SOUTH 64 DEGREES 18 MINUTES 26 SECONDS EAST 325.12 FEET ALONG THE AFOREMENTIONED DANFORTH AVENUE, THENCE, SOUTH 23 DEGREES 43 MINUTES 44 SECONDS WEST 104.47 FEET, THENCE, SOUTH 38 DEGREES 14 MINUTES 07 SECONDS WEST 84.08 FEET TO THE BEGINNING OF A CURVE TO THE LEFT WITH A CENTRAL ANGLE OF 55 DEGREES 03 MINUTES 50 SECONDS WITH A RADIUS OF 100.00 FEET AND AN ARC LENGTH OF 96.10 FEET TO A POINT OF REVERSE CURVATURE, THENCE ALONG A CURVE TO THE RIGHT WITH A CENTRAL ANGLE OF 41 DEGREES 39 MINUTES 45 SECONDS, AND A RADIUS OF 100.00 FEET AND AN ARC LENGTH OF 72.71 FEET TO A POINT, THENCE SOUTH 24 DEGREES 50

MINUTES 02 SECONDS WEST 45.84 FEET TO A POINT OF CURVATURE OF A CURVE TO THE LEFT WITH A CENTRAL ANGLE OF 27 DEGREES 50 MINUTES 03 SECONDS HAVING A RADIUS OF 83.35 FEET AND AN ARC LENGTH OF 40.49 FEET TO A POINT OF REVERSE CURVATURE OF A CURVE TO THE LEFT WITH A CENTRAL ANGLE OF 08 DEGREES 51 MINUTES 00 SECONDS AND RADIUS OF 791.47 FEET AND AN ARC LENGTH OF 122.25 FEET TO A POINT OF A REVERSE CURVATURE OF A CURVE TO THE LEFT WITH A CENTRAL ANGLE OF 20 DEGREES 04 MINUTES 28 SECONDS AND A RADIUS OF 406.08 FEET AND AN ARC LENGTH OF 142.28 FEET TO A POINT ON THE NORTHERLY LINE OF LAWRENCE STREET, THENCE, NORTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 16.68 FEET, THENCE, SOUTH 25 DEGREES 41 MINUTES 34 SECONDS WEST 13.00 FEET, CONTINUING ALONG THE NORTHERLY LINE OF LAWRENCE STREET, NORTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 323.08 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING SQUARE FEET OF LAND MORE OR LESS: 245,437.5 S.F. / 5.63 ACRES

METES & BOUNDS DESCRIPTION EAST OF SAW MILL RIVER
PART OF TAX LOT 008.370-265-1

BEGINNING AT POINT AT THE INTERSECTION OF THE NORTHERLY LINE OF LAWRENCE STREET AND THE WESTERLY LINE OF THE FORMER RAILROAD RIGHT-OF-WAY AS SHOWN ON A CERTAIN FILED MAP ENTITLED SHEET 32 OF 59 SURVEY OF A PORTION OF LANDS BELONGING TO CONRAIL (PUTNAM DIVISION) SITUATE IN THE VILLAGE OF DOBBS FERRY, TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK. SAID MAP FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE, DIVISION OF LAND RECORDS AS MAP NO. 24547 FILED DECEMBER 19, 1991. SAID POINT AND PLACE OF BEGINNING BEING DISTANT THE FOLLOWING COURSES AND DISTANCES FROM A SET OF NEW YORK STATE PLANE EAST ZONE COORDINATES SHOWN THE AFORESAID FILED MAP N: 790,678.0872, E:669,874.8524, NORTH 25 DEGREES 41 MINUTES 34 SECONDS EAST 50.00 FEET AND SOUTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 66.00 FEET TO THE POINT AND PLACE OF BEGINNING.

THENCE FORM THE SAID POINT AND PLACE OF BEGINNING THE FOLLOWING COURSES AND DISTANCES NORTH 25 DEGREES 41 MINUTES 34 SECONDS EAST 700.01 FEET TO THE SOUTHEAST CORNER OF DANFORTH AVENUE AS SHOWN ON R.O. 974, THENCE SOUTH 64 DEGREES 18 MINUTES 26 SECONDS EAST 325.12 FEET ALONG THE AFOREMENTIONED DANFORTH AVENUE, THENCE, SOUTH 23 DEGREES 43 MINUTES 44 SECONDS WEST 104.47 FEET, THENCE, SOUTH 38 DEGREES 14 MINUTES 07 SECONDS WEST 84.08 FEET TO THE BEGINNING OF A CURVE TO THE LEFT WITH A CENTRAL ANGLE OF 55 DEGREES 03 MINUTES 50 SECONDS WITH A RADIUS OF 100.00 FEET AND AN ARC LENGTH OF 96.10 FEET TO A POINT OF REVERSE CURVATURE, THENCE ALONG A CURVE TO THE RIGHT WITH A CENTRAL ANGLE OF 41 DEGREES 39 MINUTES 45 SECONDS, AND A RADIUS OF 100.00 FEET AND AN ARC LENGTH OF 72.71 FEET TO A POINT, THENCE SOUTH 24 DEGREES 50 MINUTES 02 SECONDS WEST 45.84 FEET TO A POINT THAT CROSSES DE RIVER

SOUTH 72 DEGREES 42 MINUTES 42 SECONDS EAST 41.73 FEET TO THE POINT OF AND PLACE BEGINNING OF THE PORTION OF TAX LOT 008.370-265-1 ON THE EAST SIDE OF THE SAW MILL RIVER.

THENCE FROM THE AFORESAID POINT AND PLACE OF BEGINNING THE FOLLOWING COURSES AND DISTANCES SOUTH 72 DEGREES 42 MINUTES 42 SECONDS EAST 27 FEET, SOUTH 17 DEGREES 17 MINUTES 18 SECONDS WEST 325.84 FEET ALONG THE SAW RIVER (ROAD-RT 9A), NORTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 67.98 FEET ALONG THE NORTHERLY LINE OF LAWRENCE STREET, NORTH 25 DEGREES 41 MINUTES 34 SECONDS EAST 13 FEET, NORTH 64 DEGREES 18 MINUTES 26 SECONDS WEST 18 FEET, NORTH 31 DEGREES 48 MINUTES 13 SECONDS EAST 197.26 FEET ALONG THE SAW MILL RIVER TO THE BEGINNING OF A CURVE TO THE LEFT WITH A CENTRAL ANGLE OF 37 DEGREES 10 MINUTES 02 SECONDS AND A RADIUS OF 107.28 FEET AND AN ARC LENGTH OF 69.59 FEET TO THE BEGINNING OF A CURVE TO THE LEFT WITH A CENTRAL ANGLE OF 27 DEGREES 2 MINUTES 40 SECONDS WITH AND A RADIUS OF 90.21 FEET AND AN ARC LENGTH OF 42.58 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING SQUARE FEET OF LAND MORE OR LESS: 15,913.618 S.F. / 0.37 ACRES





APPENDIX E – MONITORING WELL BORING AND CONSTRUCTION LOGS

MONITORING WELL LOG

Project Name: Akzo Nobel Pilot Plant	Well Identification: MW1
Street Address: 1 Lawrence Street, Dobbs Ferry, New York	Well Coordinate Number: NA
Tax Map Address:	Well Permit Number: NA
County: Westchester	Casing Elevation: 123.91
Owner: Akzo Nobel, Inc.	Well Depth: 23 feet
Owner's Representative: Mariam Tehrani	Screen Length: 15 feet
Owner's Address: 120 White Plains Road, Tarrytown, New York	Casing Length: 8 feet
Project Manager: Dave Volz	Drilling Method: Hollow Stem Auger
NYSDEC Case Manager: N/A	Well Diameter: 2.0 inches
NYSDEC Case Number: N/A	Borehole Diameter: 6.0 inches
Driller: Summit Drilling Co., Inc.	Sampling Method: Drill cuttings
Driller's Address: 9W Chimney Rock Road, Bound Brook, NJ	Static Water Depth: 4.79 feet from top of casing
Driller's License Number:	Logged By: Brad Smyth
	Completion Date: May 26, 2009

Depth (feet)	Sample Number	Well Detail	PID (units)	Blow Count Recovery (inches)	Depth (feet)	Lithology/Remarks (Unified Soil Classification System (USCS)- Munsell Color Value)
surface						
1			0.0		0-0.7:	Asphalt and subbase.
2			0.0		0.7-3:	Brown, sandy SILT, moist.
3			0.0			
4			0.0		3-12:	Olive brown, silty, clayey, SAND, trace fine gravel, mottling present at 10 feet, moist.
5			0.0			
6			0.0			
7			0.0			
8			0.0			
9			0.0			
10			0.0			
11			0.0			
12			0.0		12-23:	Olive brown, silty, clayey, SAND, trace fine gravel, wet.
13			0.0			
14			0.0			
15			0.0			
16			0.0			
17			0.0			
18			0.0			
19			0.0			
20			0.0			
21			0.0			
22			0.0			
23			0.0			

End of boring at 23 feet.

- Key:**
-  Concrete collar
 -  Bentonite pellet seal
 -  Sand/Gravel pack
 -  Well screen





Well Construction Materials and Completion Details: Schedule 40 PVC, 0.010-inch machine slotted threaded screen and threaded solid casing, Moric #1 sand, bentonite pellet seal. Locking (Master #0210), steel, stick-up casing and water-tight gripper plug.

MONITORING WELL LOG

Project Name: Akzo Nobel Pilot Plant Street Address: 1 Lawrence Street, Dobbs Ferry, New York Tax Map Address: County: Westchester	Well Identification: MW2 Well Coordinate Number: NA Well Permit Number: NA Casing Elevation: 130.30 feet
Owner: Akzo Nobel, Inc. Owner's Representative: Mariam Tehrani Owner's Address: 120 White Plains Road, Tarrytown, New York	Well Depth: 25 feet Screen Length: 15 feet Casing Length: 10 feet
Project Manager: Dave Volz NYSDEC Case Manager: N/A NYSDEC Case Number: N/A	Drilling Method: Hollow Stem Auger Well Diameter: 2.0 inches Borehole Diameter: 6.0 inches Sampling Method: Drill cuttings
Driller: Summit Drilling Co., Inc. Driller's Address: 9W Chimney Rock Road, Bound Brook, NJ Driller's License Number:	Static Water Depth: 12.03 feet from top of casing Logged By: Brad Smyth Completion Date: May 26, 2009

Depth (feet)	Sample Number	Well Detail	PID (units)	Blow Count Recovery (inches)	Depth (feet)	Lithology/Remarks (Unified Soil Classification System (USCS)- Munsell Color Value)
surface						
1			0.0		0-0.3:	Asphalt.
2			0.0		0.3-1:	Concrete.
3			0.0		1-10:	Light brown, fine to medium-grained, clayey SAND, some fine gravel, dry.
4			0.0			
5			0.0			
6			0.0			
7			0.0			
8			0.0			
9			0.0			
10			0.0		10-14:	Brown, clayey SAND, some fine gravel, moist.
11			0.0			
12			0.0			
13			0.0			
14			0.0		14-20:	Olive brown, clayey, gravelly SAND, wet.
15			0.0			
16			0.0			
17			0.0			
18			0.0			
19			0.0			
20			0.0		20-25:	Olive gray, clayey, silty SAND, wet.
21			0.0			
22			0.0			
23			0.0			
24			0.0			
25			0.0			

End of boring at 25 feet.

- Key:**
-  Concrete collar
 -  Bentonite pellet seal
 -  Sand/Gravel pack
 -  Well screen





Well Construction Materials and Completion Details: Schedule 40 PVC, 0.010-inch machine slotted threaded screen and threaded solid casing, Morie #1 sand, bentonite pellet seal. Locking (Master #0210), steel, stick-up casing and water-tight gripper plug.

MONITORING WELL LOG

Project Name: Akzo Nobel Pilot Plant Street Address: 1 Lawrence Street, Dobbs Ferry, New York Tax Map Address: County: Westchester Owner: Akzo Nobel, Inc. Owner's Representative: Mariam Tehrani Owner's Address: 120 White Plains Road, Tarrytown, New York Project Manager: Dave Volz NYSDEC Case Manager: N/A NYSDEC Case Number: N/A	Well Identification: MW3 Well Coordinate Number: NA Well Permit Number: NA Casing Elevation: 122.63 feet Well Depth: 25 feet Screen Length: 15 feet Casing Length: 10 feet Drilling Method: Hollow Stem Auger Well Diameter: 2.0 inches Borehole Diameter: 6.0 inches Sampling Method: Drill cuttings Static Water Depth: 5.01 feet from top of casing Logged By: Brad Smyth Completion Date: May 26, 2009
Driller: Summit Drilling Co., Inc. Driller's Address: 9W Chimney Rock Road, Bound Brook, NJ Driller's License Number:	


Depth (feet)	Sample Number	Well Detail	PID (units)	Blow Count Recovery (inches)	Depth (feet)	Lithology/Remarks (Unified Soil Classification System (USCS)- Munsell Color Value)
surface						
1			0.0		0-0.2:	Asphalt.
2			0.0		0.2-1:	Concrete.
3			0.0		1-3:	Dark brown, sandy SILT, trace clay and fine gravel, slightly moist.
4			0.0		3-8:	Olive brown, sandy, silty CLAY, trace fine gravel and brick fragments, moist.
5			0.0			
6			0.0			
7			0.0			
8			0.0		8-10:	Olive gray, silty CLAY, trace fine-grained sand and fine gravel, moist.
9			0.0			
10			0.0		10-12:	Olive gray, silty, sandy, CLAY, trace fine gravel, wet.
11			0.0			
12			0.0		12-20:	Olive gray, sandy, gravelly, CLAY, wet.
13			0.0			
14			0.0			
15			0.0			
16			0.0			
17			0.0			
18			0.0			
19			0.0			
20			0.0			

End of boring at 20 feet.

- Key:**
-  Concrete collar
 -  Bentonite pellet seal
 -  Sand/Gravel pack
 -  Well screen

Well Construction Materials and Completion Details: Schedule 40 PVC, 0.010-inch machine slotted threaded screen and threaded solid casing, Morie #1 sand, bentonite pellet seal. Locking (Master #0210), steel, stick-up casing and water-tight gripper plug.

WELL LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number:	Well No. MW-4 Page 1 of 1
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Inspector/Office TJP/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 6.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.010"	Total Boring Depth (ft) 25.0 ft.
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Start/Finish Date 3/30/19 - 3/30/19	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: Surge & Purge w/ Whale Pump. Removed apprx: 55 gal.
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Driller: A.J. Benjamin	Drilling Method: Direct Push/HSA	Drilling Equipment: Geoprobe 6622 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 129.47 ft.	Easting: 670370.1 ft. Northing: 790862.9 ft. TOC Elev: 129.44 ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Graphic Log				PID Readings (ppm)	Remarks
					Sample No.	Sample Int Recovery	Lithology	Well Traffic Rated Vault Box		
			FILL Miscellaneous Fill.							Boring head cleared to 5' BGS.
5	125	SW	Black/Brown cmf SAND, little mf Gravel (bricks, coal chips, etc). Dry.		1				1.4	0.5-5' BGS: Cement/Bentonite Grout Seal. 0.0-8.0' BGS: 2" PVC Riser. 5-6' BGS: Bentonite Seal.
		SP SM SW	ALLUVIAL DEPOSITS Brown mf SAND, some Silt, little (-) mf Gravel. Moist Brown cmf SAND, little mf Gravel. Moist.							6-23' BGS: #1 Filter Sand.
10	120	ML ML CL	Grey/Brown SILT, little f Sand, little Clay, trace (+) Organics (wood chips). Moist. Grey/Brown SILT, some (-) Clay. Moist		2				1.3	8-23' BGS: 0.010" PVC Slotted Screen.
15	115	SP	Grey mf SAND, little (-) f Gravel. Saturated.		3				1.3	
		SW	Grey cmf SAND, little mf Gravel (sub angular - rounded). Saturated.							15-17.5' BGS: Sample MW-4-15-17.5-20190430 collected and submitted for analysis.
20	110	SW	Grey cmf SAND, little (+) mf Gravel (angular - sub angular), trace (+) Silt. Saturated.		4				0.5	
		SP	Black f SAND, little Silt. Saturated.							
25	105									


WELL LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number:	Well No. MW-5 Page 1 of 1

Inspector/Office TJP/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 6.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.010"	Total Boring Depth (ft) 25.0 ft.
Start/Finish Date 3/29/19 - 3/29/19	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: Surge & Purge w/ Whale Pump. Removed apprx: 55 gal.		
Driller: Kyle Cottrell	Drilling Method: Direct Push/HSA	Drilling Equipment: Geoprobe 6622 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 129.90 ft.	Easting: 670335.8 ft. Northing: 790972.7 ft. TOC Elev: 129.50 ft.	

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Graphic Log				PID Readings (ppm)	Remarks
					Sample No.	Sample Int	Recovery	Lithology		
			FILL Miscellaneous Fill.							Boring hand cleared to 5' BGS. 0.5-6' BGS: Cement/Bentonite Grout. 0.0-9.0' BGS: 2" PVC Riser.
5	125	SW	ALLUVIAL DEPOSITS Dark Grey/Brown cmf SAND, little (+) mf Gravel. Moist.		1				35.0	5-6' BGS: Slight fuel/oil-like odor and dark staining. 6-7' BGS: Bentonite Seal. 7-24' BGS: #1 Filter Sand.
10	120	SW ML	Same as above. Dark Grey SILT, little (-) f Sand, trace (+) Organics. Moist.		2				262.6	10-10.6' BGS: Moderate staining and fuel/oil odor. 10.6-12.1' BGS: Strong organic odor. 9-24' BGS: 0.010" PVC Slotted Screen.
15	115	ML SW	Same as above, moist. Dark Grey cmf SAND, little (+) cmf Gravel. Saturated.		3				12.9	15-17.5' BGS: Sample MW-5-15-17.5-20190429 collected and submitted for analysis. 15.7-17.3' BGS: Dark staining and slight fuel/oil-like odor.
20	110	SP SP	Tan/Brown f SAND. Saturated. Same as above. Saturated. Dark Grey f SAND. Saturated.		4				2.3	20.5-23' BGS: Sporadic black staining.
25	105									


WELL LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number:	Well No. <h2 style="text-align: center;">MW-5R</h2> Page 1 of 1
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Inspector/Office BFT/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 6.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.010"	Total Boring Depth (ft) 25.0 ft.
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Start/Finish Date 3/25/22 - 3/25/22	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: Surge & Purge w/ Whale Pump. Removed approx: 50 gal.
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Driller: Frank Egan	Drilling Method: Direct Push/HSA	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 129.46 ft.	Eastings: 670395.7 ft. Northings: 791009.8 ft. TOC Elev: 129.21 ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks	
						Sample Int	Recovery	Lithology	Well			
			FILL									
		SP	Concrete.	N/A	1						0.0	
		SP	Dark brown mf SAND, little (-) f Gravel (trace bricks). Dry.	N/A	2						0.0	
	125											
5		SP	Dark brown mf SAND, little (-) f Gravel. Moist.	N/A	3						0.0	0.5-5' BGS: Cement/Bentonite Grout Seal.
												0.0-9.0' BGS: 2" PVC Riser.
												5-7' BGS: Bentonite Seal.
												7-24' BGS: #1 Filter Sand.
	120											
10		SP	Dark brown mf SAND, little (-) f Gravel. Moist.	N/A	4						1.3	
		CL	ALLUVIAL DEPOSITS Grey Clayey SILT, little Organics (fibers), trace (-) Sand. Moist.									
		SP	Brown f SAND, little (-) Organics (wood). Saturated.									
	115											
15		SP	Brown mf SAND, little (-) Organics (wood). Saturated.	N/A	5						5.2	
		SW	Grey cmf SAND, little f Gravel (subrounded). Saturated.									
	110											
20		SP	BrownGrey f SAND. Saturated.	N/A	6						1.2	9-24' BGS: 0.010" PVC Slotted Screen.
		SP	Grey f SAND, and Clayey SILT. Saturated									
	105											
25												

WELL LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number:	Well No. MW-6 Page 1 of 1


Inspector/Office TJP/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 6.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.010"	Total Boring Depth (ft) 25.0 ft.
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Start/Finish Date 3/30/19 - 3/30/19	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: Surge & Purge w/ Whale Pump. Removed apprx: 55 gal.
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Driller: A.J. Benjamin	Drilling Method: Direct Push/HSA	Drilling Equipment: Geoprobe 6622 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 127.03 ft.	Easting: 670373.6 ft. Northing: 790788.0 ft. TOC Elev: 126.66 ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Graphic Log				PID Readings (ppm)	Remarks
					Sample No.	Sample Int	Recovery	Lithology		
	125		FILL Miscellaneous Fill							Boring hand cleared to 5' BGS. 0.5-4' BGS: Cement/Bentonite Grout.
	5	SW GW	Brown cmf SAND and GRAVEL. Dry.		1				5.1	0.0-7.0' BGS: 2" PVC Riser. 4-5' BGS: Bentonite Seal
	120									5-5.6' BGS: Slight black staining and slight fuel-like odor. 5-22' BGS: #1 Filter Sand.
	10	SW	ALLUVIAL DEPOSITS Dark Brown cmf SAND, little (+) mf Gravel, little (+) Silt. Saturated.		2				1.3	7-22' BGS: 0.010" PVC Slotted Screen.
	115	SP SW	Brown f SAND, little (+) Silt, little (-) Organics. Wet							11.3-11.9' BGS: Slight organic odor.
	15	SW GW	Grey cmf SAND, little (-) mf Gravel. Saturated.		3				2.5	
	110									15-17' BGS: Sample MW-6-15-17-20190430 collected and submitted for analysis.
	20	SP SM	Grey f SAND, some Silt (micaceous). Saturated.		4				0.8	
	105									
	25									

WELL LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number:	Well No. MW-7 Page 1 of 1
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Inspector/Office TJP/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 6.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.010"	Total Boring Depth (ft) 25.0 ft.
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Start/Finish Date 3/29/19 - 3/29/19	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: Surge & Purge w/ Whale Pump. Removed approx: 55 gal.
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Driller: Kyle Cottrell	Drilling Method: Direct Push/HSA	Drilling Equipment: Geoprobe 6622 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 125.57 ft.	Easting: 670461.3 ft. Northing: 791122.5 ft. TOC Elev: 125.21 ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Graphic Log				PID Readings (ppm)	Remarks
					Sample No.	Sample Int	Recovery	Lithology		
125			FILL Asphalt Miscellaneous Fill.							Boring hand cleared to 5' BGS.
5	120	SW ML	Tan/Orange cmf SAND, little (+) cmf Gravel, trace Silt. wet.		1				0.5	0.5-5' BGS: Cement/Bentonite Grout. 0.0-8.0' BGS: 2" PVC Riser. 5-6' BGS: Bentonite Seal.
10	115	ML	ALLUVIAL DEPOSITS Dark Grey SILT, some (-) Clay, little (-) mf Sand, little (-) Organics, moist, soft, slightly plastic. Wet.		2				1.6	6-23' BGS: #1 Filter Sand.
15	110	SP SP SW	Dark Grey/Brown f SAND, little (+) Silt (micaceous). Dry. Grey mf SAND. little mf Gravel (sub rounded - sub angular). Wet. Orange cmf SAND, little (+) cmf Gravel. Wet.		3				0.6	8-23' BGS: 0.010" PVC Slotted Screen.
20	105	SW GW SP	Grey/Brown cmf SAND and cmf GRAVEL (sub angular), little (-) Silt. Wet. Brown f SAND. little (+) Silt. Wet.		4				0.4	15-17' BGS: Sample MW-7-15-17-20190429 collected and submitted for analysis.
25		SP SM SM	Tan/Brown f SAND. Saturated Tan/Brown SILT, some f SAND. Saturated.							

WELL LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number:	Well No. MW-8 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 6.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.010"	Total Boring Depth (ft) 25.0 ft.
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Start/Finish Date 2/18/20 - 2/18/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: Surge & Purge w/ Whale Pump. Removed apprx: 50 gal.
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Driller: Kyle Cottrell	Drilling Method: Direct Push/HSA	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 129.45 ft.	Easting: 670389.8 ft. Northing: 790967.1 ft. TOC Elev: 129.03 ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
			FILL							
		SP	Crushed brick and grey cm Gravel, little mf Sand.					0.0		
		SP	Black cm SAND, some mf Gravel.					0.0		
		GP	Ran/brown mf SAND, some (-) Silt, little (-) f Gravel.					0.0		0.5-6' BGS: Cement/Bentonite Grout Seal.
	125		Grey/brown f GRAVEL, some cmf Sand, trace Silt. Dry.					0.0		0.0-9.0' BGS: 2" PVC Riser.
5		GP	Same as above.					0.0		6-7' BGS: Bentonite Seal.
		SP	Black mf SAND, little Silt, trace mf Gravel (includes glass).					0.0		
		SP						0.0		
		SP						0.0		
			ALLUVIAL DEPOSITS							
			Tan cm SAND, some mf Gravel, trace Silt. Dry.							7-24' BGS: #1 Filter Sand.
	120		Brown mf SAND, some Silt, trace f Gravel. Moist.							
10		SP	Grey cm SAND, some f Gravel, trace Silt. Saturated.					0.0		
		CL	Grey/brown Silty CLAY, little Organics.					0.1		
								0.0		
								0.0		9-24' BGS: 0.010" PVC Slotted Screen.
	115									
15		CL	Same as above (includes wood).					0.0		
		SP	Grey mf SAND, little f Gravel, trace Silt. Saturated.					0.0		
		SP	Grey cm SAND, little mf Gravel. Saturated.					0.0		16-18' BGS: Sample MW-8-16-18-20200219 collected and submitted for analysis.
	110							0.0		
20		SP	Same as above. Saturated.					0.0		
		SP	Grey mf SAND, little Silt. Saturated.					0.0		
	105							0.0		
25								0.0		

WELL LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY		Permit Number:	Well No. MW-9 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 6.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.010"	Total Boring Depth (ft) 25.0 ft.
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Start/Finish Date 2/19/20 - 2/19/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: Surge & Purge w/ Whale Pump. Removed apprx: 50 gal.
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Driller: Kyle Cottrell	Drilling Method: Direct Push/HSA	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 122.39 ft.	Easting: 670397.4 ft. Northing: 790764.9 ft. TOC Elev: 122.12 ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks		
						Sample Int	Recovery	Lithology	Well				
			FILL										
	120	SW	Concrete.									0.0	Boring head cleared to 5' BGS.
		SW	Grey cmf SAND, some cmf Gravel (includes brick), trace Silt.									0.0	
			Brown cmf SAND, some mf Gravel, little Silt.									0.0	0.5-5' BGS: Cement/Bentonite Grout Seal.
	5	SP	ALLUVIAL DEPOSITS									0.0	0.0-8.0' BGS: 2" PVC Riser.
		SP	Brown mf SAND, some Silt, little f Gravel. Moist.									0.0	5-6' BGS: Bentonite Seal.
	115	SW	Grey cm SAND, little f Gravel. Moist.									0.0	
			Grey cmf SAND, some mf Gravel, little (-) Silt. Saturated.									0.0	6-23' BGS: #1 Filter Sand.
	10	SW	Same as above (gravel subrounded). Saturated.									0.0	10-11.8' BGS: Sample MW-9-10-11.8-20200219 collected and submitted for analysis.
	110											0.0	
	15	SP	Grey mf SAND, little Silt, trace m Gravel. Saturated.									0.0	8-23' BGS: 0.010" PVC Slotted Screen.
	105											0.0	
	20	SP	Same as above. Saturated. Soupy.									0.0	
	100											0.0	
	25											0.0	

WELL LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number:	Well No. MW-10 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 6.25"	Screen Diameter and Type: 2" PVC	Slot Size: 0.010"	Total Boring Depth (ft) 25.0 ft.
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Start/Finish Date 2/19/20 - 2/19/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: Surge & Purge w/ Whale Pump. Removed apprx: 50 gal.
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Driller: Kyle Cottrell	Drilling Method: Direct Push/HSA	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 123.43 ft.	Easting: 670258.5 ft. Northing: 790562.9 ft. TOC Elev: 123.10 ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks	
						Sample Int	Recovery	Lithology	Well			
			FILL									
		SP	Brown mf SAND, some Silt, little (+) mf Gravel.							0.0	Boring head cleared to 4' BGS.	
		SP	Concrete.							0.0		
	120	SW	Brown mf SAND, some cmf Gravel (includes brick), little Silt.							0.0	0.5-5' BGS: Cement/Bentonite Grout Seal.	
		SP	Concrete/brick, cm Gravel.							0.0		
	5	SP	Brown cmf SAND, some (+) cmf Gravel, little Silt.							0.0	0.0-8.0' BGS: 2" PVC Riser.	
		SP	Brown mf SAND, some mf Gravel, little (-) Silt.							0.0	5-6' BGS: Bentonite Seal.	
		SP	Concrete.							0.0		
		SP	Same as above.							0.0		
	115		ALLUVIAL DEPOSITS									
			Brown/grey f SAND, some Silt, trace f Gravel. Moist.									
	10		Grey mf SAND, some mf Gravel, little (-) Silt. Moist.									
		SP	Brown mf SAND, some mf Gravel, trace Silt. Includes concrete. Moist.							0.0		
		SP	Grey mf SAND, some (-) Silt, little (-) mf Gravel. Saturated.							0.0	8-23' BGS: 0.010" PVC Slotted Screen.	
	110											
	15	SP	Same as above. Saturated							0.0		
		SP	Grey cm SAND, some mf Gravel, trace Silt. Saturated.							0.0		
	105											
	20	SP	Tan/grey mf SAND, some Silt, little mf Gravel. Saturated.							0.0		
										0.0		
	100											
	25											

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/18/2018
 Elevation: _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-1
 Project No.: ENVLT008 D
 Date Completed: 7/18/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	3				Black, dry, c-f SAND, some Silt, trace Gravel	
	7.4					
	3.3					
	2					
	2.1	3		FE-SB-1		
	2.1			(2.5-3)		
5						
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/18/2018
 Elevation _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-2
 Project No.: ENVLT008 D
 Date Completed: 7/18/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	0				0.5 Concrete	
	8.6				Black, dry, c-f SAND, some Silt, trace Gravel	
	20.9					
	18.1					
	10		3	FE-SB-2		
	6.4			(2.5-3)		
5						
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 9/13/2018
 Elevation _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-2A
 Project No.: ENVLT008 D
 Date Completed: 9/13/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	2.2				1.0 Brick fragments, powdered concrete	
	1.2				2.5 Brown, damp, c-f SAND, little Silt	
	1.2					
	1.2					
	1.7	3.5		FE-SB-2A		
	1.9			(2.5-3)		
5						
10						
15						
20						

Client: Enviro Analytics Group, LLC

Site: Former Akzo Nobel Plant, Ardsley, NY

Date Started: 9/13/2018

Elevation: _____

Hole Diameter: 2 inches

Boring No.: FE-SB-2B

Project No.: ENVLT008 D

Date Completed: 9/13/2018

Geologist: A. Attenborough

Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	0.2				0.5 Brick fragments, powdered concrete	
	0.2				1.0 Black, moist, CLAYEY SILT, trace coarse Sand	
	0.2					
	0.2				0.5 Gray/Tan, dry SILT, trace fine Sand	
	0.2	3		FE-SB-2B	1.0 Orange, dry fine SAND and Silt.	
	0.2			(2.5-3)		
5						
10						
15						
20						

Client: Enviro Analytics Group, LLC

Site: Former Akzo Nobel Plant, Ardsley, NY

Date Started: 7/17/2018

Elevation:

Hole Diameter: 2 inches

Boring No.: FE-SB-3

Project No.: ENVLT008 D

Date Completed: 7/17/2018

Geologist: A. Attenborough

Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	0	0			0.5 - Concrete	
		0			0.7 Brown, dry, SILT, some m-f Sand, trace Gravel	
		0				
		0				
		0	3.5	FE-SB-3 (2.5-3)	1.2 - Black, damp, SILT, some f. Sand	
		0				
5						
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/18/2018
 Elevation: _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-5
 Project No.: ENVLT008 D
 Date Completed: 7/18/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	3				Black, damp, c-f SAND, some Silt, trace Gravel	
	7.4					
	3.3					
	2					
	2.1					
	2.1	3		FE-SB-5 (2.5-3)		
5						
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/17/2018
 Elevation: _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-6
 Project No.: ENVLT008 D
 Date Completed: 7/17/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	0	0			0.5 - Concrete	
	0	0		FE-SB-6	Black, damp, SILT, some m-f Sand, trace Gravel	
	0	0		(0-0.5)	(bricks)	
	0	0				
	0	0	3	FE-SB-6		
	0	0		(1.5-2)		
5						
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/18/2018
 Elevation _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-7
 Project No.: ENVLT008 D
 Date Completed: 7/18/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0		0			0.5 - Brown ORGANIC SILT (Topsoil)	
		0			0.5 - Concrete	
		0			1.0 - Brick Fragments	
		0				
			2			
5		0			Red Brown, wet, GRAVEL, little c-f Sand, trace Silt	
		0				
		0				
		0				
			2	FE-SB-7 (8-8.5)		Wet at 7.0 ft.
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/17/2018
 Elevation: _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-9
 Project No.: ENVLT008 D
 Date Completed: 7/17/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0		0			Brown, dry, m-f SAND, some Silt (bricks, concrete)	
		0				
		0				
		0				
		0	2.5			
5		0			Same	
		0				
		0				
		0		FE-SB-9		Wet at 7.0 ft.
		0	2.5	(8-8.5)		
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/17/2018
 Elevation _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-10
 Project No.: ENVLT008 D
 Date Completed: 7/17/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	0	0	0		0.5 - ORGANIC SILT (grass)	
		0			Light Brown, dry, SILT, little m-f SAND (bricks, concrete)	
		0				
		0	2.3			
		0				
5		0			1.5 - Same	
		0				
		0				
		0		FE-SB-10 (8-8.5)	1.2 - Brown, moist, SILT.	
		0	2.9		0.4 - Brown, wet, c-f SAND, little Silt.	Wet @ 7.7 ft.
		0				
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/17/2018
 Elevation _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-11
 Project No.: ENVLT008 D
 Date Completed: 7/17/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	0	0			Brown, dry, m-f SAND, some Silt (bricks, concrete)	
		0				
		0				
		0				
		1.8				
5	0	0			Same	
	0	0				
	0	0				
	0	0				
	2			FE-SB-11 (8-8.5)		Wet at 7.0 ft.
10	0	0			Red Brown, Wet, GRAVEL, little c-f Sand, trace Silt	
	0	0				
	0	0				
	0	0				
	0	0	5			
	0	0				
	0	0				
	0	0				
15	0	0				
				FE-SB-11 (14.5-15)		
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/17/2018
 Elevation _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-12
 Project No.: ENVLT008 D
 Date Completed: 7/17/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	0	0			0.5 - Brown, dry, m-f SAND, and Silt	
		0			2.4 - Light Brown, SILT, some Gravel, trace Sand (Dry, Concrete)	
		0	3			
		0				
5	5	0		FE-SB-12 (5-5.5)	Brown - Tan, dry, SILT, some fine Sand.	
		0				Wet at 7.0 ft.
			1			
10						
15						
20						

Client: Enviro Analytics Group, LLC

Site: Former Akzo Nobel Plant, Ardsley, NY

Date Started: 7/17/2018

Elevation _____

Hole Diameter: 2 inches

Boring No.: FE-SB-13

Project No.: ENVLT008 D

Date Completed: 7/17/2018

Geologist: A. Attenborough

Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0		0			Brown, dry, SILT, some Gravel, trace Sand.	
		0				
			1			
5		1.7		FE-SB-13	0.5 - Same.	
		4.2		(5-5.5)	0.5 - Dark Grey, wet, c-f SAND, some Silt, little Gravel	Wet @ 5.5 ft.
			1			
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/17/2018
 Elevation: _____
 Hole Diameter: 2 inches

Boring No.: FE-SB-14
 Project No.: ENVLT008 D
 Date Completed: 7/17/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0		0			Brown, dry, SILT, some Gravel, some Sand.	
		0				
		0				
		0				
		0	2.9			
5		0		FE-SB-14 (5-5.5)	Gray, dry, m-f SAND, some Silt, trace Gravel	
		0				
		0	1.5			
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/17/2018
 Elevation: _____
 Hole Diameter: 2 inches

Boring No.: SB-49C
 Project No.: ENVLT008 D
 Date Completed: 7/17/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0		0			1.0 - Brown, dry, SILT, some fine Sand, little Gravel	
		0			1.5 - Black, dry, SAND and SILT, trace Gravel	
		0			0.4 - BRICKS	
		0	2.9			
		0				
5		0.5			Brown to Grey, c-f SAND, some Silt, trace Gravel	Wet @ 5.5 ft.
		0.4			Alt. Brown SAND with Grey to Brown, SAND, some Silt, some Gravel (Wet, Weathered Brick)	
		0.4				
		0.5				
		0	4	SB-49C (7.5-8)		
		0				
		0		SB-49C (9.5-10)		
		0				
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/17/2018
 Elevation _____
 Hole Diameter: 2 inches

Boring No.: SB-74C
 Project No.: ENVLT008 D
 Date Completed: 7/17/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0		0			0.5 - Concrete	
		0			Brown, dry, SILT, some m-f Sand, trace Gravel	
		0				
		0				
			2			
5		0			Black, damp, SILT, some f. Sand	
		0				
		0				
		0				
		0	3	SB-74C (7.5-8)	0.5 - Tan to Grey, SILT, some f. Sand	
		0				
10						
15						
20						

Client: Enviro Analytics Group, LLC
 Site: Former Akzo Nobel Plant, Ardsley, NY
 Date Started: 7/18/2018
 Elevation: _____
 Hole Diameter: 2 inches

Boring No.: VES-1 1A
 Project No.: ENVLT008 D
 Date Completed: 7/18/2018
 Geologist: A. Attenborough
 Boring Method: Direct Push

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
0	0				0.5 - Concrete	
	0.5					
5	1				Black, moist, c-f SAND, some Silt, trace Gravel	
	4.7					
	0.7					
10	2				Black, wet, c-f SAND, little Silt	
	2					
	4.6				Black to Brown, wet, c-f SAND, some Silt	
	18.1					
	22.5					
	36.1	4.4				
	14.3					
	1.3			VES-1		
	1.4			(13.5-14)		
15	0				1.25 Black, wet, c-f SAND, some Silt	
	0					
	0					
	0				1.25 Black, wet, SILT, trace fine Sand	
	0					
	2.5					
20						

Elev. (ft.)	Depth (ft.)	PID (ppm)	Recovery (ft.)	Sample No.	Description	Comments
20		0		VES-1A (2.5-3)	2.5 Same	
		0				
		0				
		0				
		0	3		0.5 Olive to Gray, interbedded SILT & Clay (running)	
		0				
		0				
		0				
		0				
		0				
25		0			1.0 Same	
		0				
		0				
		0				
		0	3.5		2.5 Gray, wet, SILT	
		0				
		0				
		0				
		0				
		0				
30		0			Same	
		0				
		0				
		0				
		0	4			
		0				
		0				
		0				
		0				
		0				
35		0			Same	
		0				
		0				
		0				
		0	4			
		0				
		0				
		0				
		0				
		0				
40						

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-FE-SB-1 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 2"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 15.0 ft.
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Start/Finish Date 2/20/20 - 2/20/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: NA
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Driller: Kyle Cottrell	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.43 ft.	Easting: 670324.6 ft. Northing: 791020.6 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
			FILL							
		SP	Concrete.						0.0	Boring backfilled with cement/bentonite grout and soil cuttings 4-5' BGS: Sample BC-FE-SB-1-4-5-20200220 collected and submitted for analysis. 6-7' BGS: Sample BC-FE-SB-1-6-7-20200220 collected and submitted for analysis. 8-9' BGS: Sample BC-FE-SB-1-8-9-20200220 collected and submitted for analysis. 10-11' BGS: Sample BC-FE-SB-1-10-11-20200220 collected and submitted for analysis. 12-13' BGS: Sample BC-FE-SB-1-12-13-20200220 collected and submitted for analysis. 14-15' BGS: Sample BC-FE-SB-1-14-15-20200220 collected and submitted for analysis.
		SP	Brown mf SAND, some mf Gravel, little Silt. Dry.						0.0	
		SP	Tan m SAND, little Silt. Dry.						0.0	
	125	GP	Same as above.						0.0	
		GP	Grey mf GRAVEL, some cmf Sand, trace Silt. Moist.						0.0	
	5	GP	Grey mf GRAVEL, some cmf Sand, trace Silt. Saturated.						0.0	
		GP	Same as above.						0.0	
		SP	ALLUVIAL DEPOSITS						0.0	
	120	SP	Black f SAND, some Silt. Moist.						0.3	
		SP	Grey f SAND, some Silt, little mf Gravel. Saturated.						0.1	
	10	PT	Brown ORGANICS (Peat). Saturated.						2.1	
		PT	Same as above (includes wood).						1.6	
	115	PT	Wood. Saturated.						2.8	
		GP	Grey mf GRAVEL, some cmf Sand, trace Silt. Saturated.						4.8	
	15	GP	Grey mf GRAVEL, some cmf Sand, trace Silt. Saturated.						0.0	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-FE-SB-2 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 2"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 15.0 ft.
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Start/Finish Date 2/20/20 - 2/20/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: NA
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Driller: Kyle Cottrell	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.85 ft.	Easting: 670315.4 ft. Northing: 791004.5 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks	
						Sample Int	Recovery	Lithology	Backfill			
		SP	FILL									
		SP	Brown mf SAND, some mf Gravel, little Silt. Dry.							3.3	Boring backfilled with cement/bentonite grout and soil cuttings	
		SP	Wood. Dry.						1.5			
		SP	Black mf SAND, some (-) Silt, little mf Gravel. Dry.						0.0			
		SP	Same as above.						0.0			
125		SP	Same as above.						0.0			
5		SW	Tan cmf SAND, some mf Gravel, trace Silt. Dry.						0.0			
		SW	Same as above, grey.						0.0			
		SP	Black mf SAND, some mf Gravel (includes coal-like pieces), trace Silt. Saturated.						0.8			
	120	SP	ALLUVIAL DEPOSITS						0.0			
		SP	Grey f SAND, some Silt, trace f Gravel. Saturated.						0.0			
10		SP	Same as above. Saturated.						0.0			
		PT	Brown ORGANICS (Peat). Saturated.						7.6			
	115	PT	Same as above.						7.0			
		SW	Grey cmf SAND, some mf Gravel, trace Silt. Moist.						6.8			
15		SW							8.1			
									0.7			
									0.0			

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-FE-SB-2A Page 1 of 1
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Inspector/Office AJT/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 16.0 ft.
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Start/Finish Date 5/14/20 - 6/5/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: A.J. Benjamin	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 129.15 ft.	Easting: 670312.9 ft. Northing: 790999.0 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
5	125	GP SW	FILL Crushed red brick. Grey mf GRAVEL, some cmf Sand, trace Silt. Grey-black-brown cmf SAND, some mf Gravel, little Silt. Moist.		1					0.7 3.0 1.6 1.4 1.5	Boring backfilled with soil cuttings and sand. 4-5' BGS: Sample BC-FE-SB-2A-4-5-20200605 collected and submitted for analysis. 6-7' BGS: Sample BC-FE-SB-2A-6-7-20200605 collected and submitted for analysis. 8-9' BGS: Sample BC-FE-SB-2A-8-9-20200605 collected and submitted for analysis. 10-11' BGS: Sample BC-FE-SB-2A-10-11-20200605 collected and submitted for analysis. 12-13' BGS: Sample BC-FE-SB-2A-12-13-20200605 collected and submitted for analysis. 14-15' BGS: Sample BC-FE-SB-2A-14-15-20200605 collected and submitted for analysis.
	120	SW SP GP GP	ALLUVIAL DEPOSITS Black cmf SAND. Saturated. Black mf SAND, some Silt, trace Organics. Saturated. Grey cm GRAVEL. Saturated. Black mf GRAVEL, some cmf Sand, trace Silt. Saturated.		2 3					0.3 0.4 0.4 4.2 --	
	115	GP ML	Same as above. Saturated. Brown ORGANICS and SILT. Peat.		4					38.2 48.2 36.1 41.0 18.7	
	15	SW	Grey cmf SAND, little Silt. Saturated.								

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-FE-SB-3 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 2"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 15.0 ft.
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Start/Finish Date 2/20/20 - 2/20/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: NA
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Driller: Kyle Cottrell	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.48 ft.	Easting: 670343.1 ft. Northing: 791044.2 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
			FILL							
		SP	Concrete. Dry.						0.0	Boring backfilled with cement/bentonite grout and soil cuttings 4-5' BGS: Sample BC-FE-SB-3-4-5-20200220 collected and submitted for analysis. 6-7' BGS: Sample BC-FE-SB-3-6-7-20200220 collected and submitted for analysis. 8-8.4' BGS: Sample BC-FE-SB-3-8-8.4-20200220 collected and submitted for analysis. 10-10.4' BGS: Sample BC-FE-SB-3-10-10.4-20200220 collected and submitted for analysis. 12-13' BGS: Sample BC-FE-SB-3-12-13-20200220 collected and submitted for analysis. 14-15' BGS: Sample BC-FE-SB-3-14-15-20200220 collected and submitted for analysis.
		SP	Brown mf SAND, some (-) Silt, little (-) mf Gravel (subrounded). Dry.					0.1		
		SP	Same as above.					0.3		
125		SP	Black mf SAND, some mf Gravel, little Silt. Dry.					0.4		
		SP	Black mf SAND, some mf Gravel, little Silt. Moist.					0.3		
5		SP	Moist.					0.1		
		SP	Tan m SAND. Moist.					0.1		
			ALLUVIAL DEPOSITS							
		GP	Grey mf SAND, some f Gravel, little Silt. Moist.					0.2		
		GP	Grey mf GRAVEL, some mf Sand, trace Silt. Moist.					0.0		
120		GP	Same as above.					0.1		
		GP	Grey mf GRAVEL, some mf Sand, trace Silt. Saturated.					0.1		
10		GP	Same as above.					0.1		
		GP	Same as above.					3.4		
		PT	Brown SILT, trace f Sand, little Organics (roots) (Peat). Saturated.					2.9		
115		PT	Same as above.					1.1		
		PT	Same as above.					2.3		
15		PT	Same as above.					0.8		
								1.0		

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-FE-SB-5 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 2"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 15.0 ft.
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Start/Finish Date 2/20/20 - 2/20/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: N/A	Development Method: NA
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Driller: Kyle Cottrell	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.55 ft.	Easting: 670313.8 ft. Northing: 791042.6 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
			FILL							
		GP	Concrete. Dry.						0.0	Boring backfilled with cement/bentonite grout and soil cuttings
		SW	Grey mf GRAVEL, little cmf Sand. Dry.						0.0	
		SW	Grey cmf SAND, some mf Gravel, little Silt. Dry.						0.8	
		SW	Same as above.						0.1	
	125	SW	Same as above.						0.0	
		SW	Grey cmf SAND, some mf Gravel, little Silt. Dry.						0.8	
		SP	Grey cmf SAND, some mf Gravel, little Silt. Dry.						0.1	
	5	SP	Dry.						0.0	
			ALLUVIAL DEPOSITS							
		SP	Brown mf SAND, some Silt, little mf Gravel. Moist.						0.0	4-5' BGS: Sample BC-FE-SB-5-4-5-20200220 collected and submitted for analysis.
		SP	Same as above.						0.0	6-7' BGS: Sample BC-FE-SB-5-6-7-20200220 collected and submitted for analysis.
		SP	Grey mf SAND, some (-) cmf Gravel, little Silt. Moist.						0.0	8-9' BGS: Sample BC-FE-SB-5-8-9-20200220 collected and submitted for analysis.
	120	SP	Same as above.						0.0	10-11' BGS: Sample BC-FE-SB-5-10-11-20200220 collected and submitted for analysis.
		SP	Same as above.						0.0	12-13' BGS: Sample BC-FE-SB-5-12-13-20200220 collected and submitted for analysis.
		SP	Grey mf SAND, some (-) cmf Gravel, little Silt. Saturated						0.0	14-15' BGS: Sample BC-FE-SB-5-14-15-20200220 collected and submitted for analysis.
	115	SP	Same as above.						0.0	
		SP	Grey mf SAND, little Silt, trace f Gravel. Saturated.						0.0	
	15	SP	Same as above.						0.0	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-1 Page 1 of 1
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Inspector/Office AJT/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 14.0 ft.
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Start/Finish Date 5/14/20 - 6/5/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: A.J. Benjamin	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.47 ft.	Easting: 670313.1 ft. Northing: 791055.0 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
	125	SW	FILL Asphalt. Black-brown cmf SAND, some cmf Gravel, trace Silt. Moist.		1					0.0 0.1 0.1 0.1 0.1	Boring backfilled with soil cuttings and sand.
	5	SW	Same as above. Moist.		2					0.1 0.1 0.1 0.1	4-5' BGS: Sample BC-SB-1-4-5-20200605 collected and submitted for analysis.
		SW SM	Crushed red brick. Brown-grey cmf SAND and SILT, little(+) mf Gravel. Moist. Saturated at 6.3' BGS.								6-7' BGS: Sample BC-SB-1-6-7-20200605 collected and submitted for analysis.
	120	SW SM SW	ALLUVIAL DEPOSITS Same as above. Saturated. Tan-grey cmf SAND, some mf Gravel, trace Silt. Saturated.		3					0.0 0.0 0.0 0.0	8-9' BGS: Sample BC-SB-1-8-9-20200605 collected and submitted for analysis.
	115	SW GW SP	Black cmf SAND and f GRAVEL, trace Silt. Saturated. Black f SAND, some Silt. Saturated.		4					0.6 0.1 0.0	12-13' BGS: Sample BC-SB-1-12-13-20200605 collected and submitted for analysis.

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-2 Page 1 of 1
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Inspector/Office AJT/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 14.0 ft.
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Start/Finish Date 5/14/20 - 6/5/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: A.J. Benjamin	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.35 ft.	Easting: 670341.8 ft. Northing: 791057.6 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
125		GP SW SP	FILL Asphalt. Grey mf GRAVEL, some cmf Sand. Dry. Black-brown cmf SAND, some mf Gravel, little Silt. Moist. Tan f SAND, some Silt. Moist.		1					0.0 0.0 0.0 0.0	Boring backfilled with soil cuttings and sand. 8-9' BGS: Sample BC-SB-2-8-9-20200605 collected and submitted for analysis. 10-11' BGS: Sample BC-SB-2-10-11-20200605 collected and submitted for analysis. 12-13' BGS: Sample BC-SB-2-12-13-20200605 collected and submitted for analysis.
5		SP SW SW ML	Same as above. Moist. Black cmf SAND, little f Gravel. Moist. Tan cmf SAND, some (+) mf Gravel (cinder-like). Moist. Black SILT. Moist.		2				1.6 0.9 0.5 1.2		
120		GP ML	Grey-brown mf GRAVEL, some cmf Sand (slag and cinder-like). Saturated.		3					0.0 11.9	
10		SW ML	ALLUVIAL DEPOSITS Black Silt, some Organics. Peat. Black cmf SAND, some f Gravel, trace Silt. Saturated. Brown SILT and ORGANICS. Peat.		4					1.3 15.3 11.0	
115		ML SW	Same as above. Saturated. Grey cmf SAND. Saturated.		5					46.2 47.7 18.3	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-3 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 16.0 ft.
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Start/Finish Date 5/14/20 - 6/5/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: A.J. Benjamin	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.66 ft.	Easting: 670358.6 ft. Northing: 791056.8 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
5 10 15	125	SW	FILL Concrete.		1					0.0	<i>Boring backfilled with soil cuttings and sand.</i> 4-5' BGS: Sample BC-SB-3-4-5-20200605 collected and submitted for analysis. 6-7' BGS: Sample BC-SB-3-6-7-20200605 collected and submitted for analysis. 8-9' BGS: Sample BC-SB-3-8-9-20200605 collected and submitted for analysis. 10-11' BGS: Sample BC-SB-3-10-11-20200605 collected and submitted for analysis. 12-13' BGS: Sample BC-SB-3-12-13-20200605 collected and submitted for analysis. 14-15' BGS: Sample BC-SB-3-14-15-20200605 collected and submitted for analysis.
		SW	Brown cmf SAND, little f Gravel, little Silt. Moist.							0.0	
		SW	Black cmf SAND, some mf Gravel (coal). Moist.							0.0	
		SW	Brown cmf SAND, little f Gravel, little Silt. Moist.							0.0	
		SW	Same as above. Moist.		2					0.0	
		SP	Tan-grey f SAND. Moist.							0.0	
		SW	Tan-brown-black cmf SAND, some f Gravel, trace Silt. Moist.							0.0	
		ML	ALLUVIAL DEPOSITS							0.1	
		SW	Black SILT, some cmf Sand. Saturated. Tan cmf SAND, some mf Gravel. Saturated.		3					0.0	
		ML	Black SILT and ORGANICS. Peat. Saturated.							0.0	
		ML	Same as above.							10.3	
		CL	Grey Silty CLAY, little Organics.		4					11.4	
		SW	Grey-brown cmf SAND, some (+) Organics. Saturated.							3.5	
										0.0	
										0.0	









BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-4 Page 1 of 1
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Inspector/Office AJT/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 16.0 ft.
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Start/Finish Date 5/14/20 - 6/5/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: A.J. Benjamin	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.47 ft.	Easting: 670354.5 ft. Northing: 791029.9 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks	
						Sample Int	Recovery	Lithology	Backfill			
			FILL		1					0.0	Boring backfilled with soil cuttings and sand.	
	125	SW	Concrete.							0.0		
		SW	Black cmf SAND, some Silt, little mf Gravel. Moist.							0.0		
5		SW	Same as above. Saturated at 5.5' BGS.		2					0.0		
	120	SW	ALLUVIAL DEPOSITS							0.0	4-5' BGS: Sample BC-SB-4-4-5-20200605 collected and submitted for analysis. 6-7' BGS: Sample BC-SB-4-6-7-20200605 collected and submitted for analysis. 8-9' BGS: Sample BC-SB-4-8-9-20200605 collected and submitted for analysis. 10-11' BGS: Sample BC-SB-4-10-11-20200605 collected and submitted for analysis. 12-13' BGS: Sample BC-SB-4-12-13-20200605 collected and submitted for analysis. 14-15' BGS: Sample BC-SB-4-14-15-20200605 collected and submitted for analysis.	
10		GW SP		Black cmf SAND, some mf Gravel, little (+) Silt. Saturated.		3						0.5
		CL		Tan cmf GRAVEL, little cmf sand. Saturated.								0.0
		ML		Black f SAND, some (+) Silt, trace f Gravel. Saturated.								0.0
	115	CL	Grey Silty CLAY, trace Organics.		4					0.7		
		ML	Brown SILT and ORGANICS. Peat.							0.0		
15		SW	Grey-black cmf SAND, little Silt, trace f Gravel. Saturated.							0.0		

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-5 Page 1 of 1
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Inspector/Office AJT/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 16.0 ft.
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Start/Finish Date 5/14/20 - 6/5/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: A.J. Benjamin	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.90 ft.	Easting: 670357.3 ft. Northing: 791003.5 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
		SW	FILL Concrete. Black cmf SAND, some mf Gravel, trace Silt. Crushed coal. Moist.		1					0.0 0.0 0.0 0.0 0.0 0.0	Boring backfilled with soil cuttings and sand.
125		SW	Same as above.		2					0.0 0.0 0.0 0.0 0.0	4-5' BGS: Sample BC-SB-5-4-5-20200605 collected and submitted for analysis.
5		SP	Light brown f SAND, little (+) f Gravel. Dry.		3					0.0 0.0 0.0 0.0	6-7' BGS: Sample BC-SB-5-6-7-20200605 collected and submitted for analysis.
120		SP	Brown m SAND. Dry.		4					0.0 0.0 0.0 0.0	8-9' BGS: Sample BC-SB-5-8-9-20200605 collected and submitted for analysis.
10		SP	ALLUVIAL DEPOSITS Dark grey mf SAND, little (+) mf Gravel, trace Silt. Moist to saturated.		5					0.0 0.7 0.4	10-11' BGS: Sample BC-SB-5-10-11-20200605 collected and submitted for analysis.
		SP	Same as above. Saturated.		6					--	12-13' BGS: Sample BC-SB-5-12-13-20200605 collected and submitted for analysis.
115		SP	Dark grey f SAND, and Clayey SILT, some (-) Organics (wood fibers). Moist to saturated.		7						14-15' BGS: Sample BC-SB-5-14-15-20200605 collected and submitted for analysis.
15		SM			8						

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-6 Page 1 of 1
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Inspector/Office AJT/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 16.0 ft.
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Start/Finish Date 5/14/20 - 6/5/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: A.J. Benjamin	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 129.28 ft.	Easting: 670340.9 ft. Northing: 790989.1 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
125		SW	FILL		1					0.0	Boring backfilled with soil cuttings and sand.
		SW	ORGANICS (leaves).							0.0	
		SW	Crushed red brick.							0.0	
		GW	Brown cmf SAND, some Silt, little mf Gravel. Dense.							0.0	
		SW	Black cmf SAND and mf GRAVEL. Crushed coal.							0.0	
5	120	SW	Brown cmf SAND, some Silt, little cmf Gravel. Moist. Same as above. Moist.		2					0.5	4-5' BGS: Sample BC-SB-6-4-5-20200605 collected and submitted for analysis. 6-7' BGS: Sample BC-SB-6-6-7-20200605 collected and submitted for analysis. 8-9' BGS: Sample BC-SB-6-8-9-20200605 collected and submitted for analysis. 10-11' BGS: Sample BC-SB-6-10-11-20200605 collected and submitted for analysis. 12-13' BGS: Sample BC-SB-6-12-13-20200605 collected and submitted for analysis. 14-15' BGS: Sample BC-SB-6-14-15-20200605 collected and submitted for analysis.
		SP	ALLUVIAL DEPOSITS							0.3	
		SW	Black mf SAND, some Silt, little f Gravel. Moist.							0.4	
		SW	Brown-tan cmf SAND, some (+) f Gravel. Moist.							0.0	
		SW	Same as above. Moist. Saturated at 9.6' BGS.		3					36.8	
		GP	Black mf GRAVEL, some cmf Sand, trace Silt. Saturated.							48.9	
		GP	Same as above. Saturated.							56.8	
		SW	Brown cmf SAND, some Silt, little mf Gravel.		4					51.3	
		ML	Brown SILT and ORGANICS. Peat.							11.0	
15	115									9.2	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-7 Page 1 of 1
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Inspector/Office AJT/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 14.0 ft.
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Start/Finish Date 5/14/20 - 6/5/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: A.J. Benjamin	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.75 ft.	Easting: 670309.1 ft. Northing: 791012.3 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
		SW	FILL		1					0.0	Boring backfilled with soil cuttings and sand.
		SW	Asphalt.							0.4	
		SW	Brown cmf SAND, some mf Gravel. Moist.							0.7	
		SW	Black cmf SAND and f Gravel. Crushed coal.							0.8	
	125	SW	Brown cmf SAND, some mf gravel, little (+) Silt. Moist.							0.6	
		SW	Same as above. Moist.		2					--	
		SP	ALLUVIAL DEPOSITS								8-9' BGS: Sample BC-SB-7-8-9-20200605 collected and submitted for analysis. Refusal at 10.0' BGS. Stepped over for 10.0'-14.0' interval. 10-11' BGS: Sample BC-SB-7-10-11-20200605 collected and submitted for analysis. 12-13' BGS: Sample BC-SB-7-12-13-20200605 collected and submitted for analysis.
		SP	Black mf SAND, some Silt, little (+) mf Gravel. Saturated at 5.5' BGS.								
	120	SP SM	Black mf SAND and SILT, little Organics, trace f Gravel. Soft. Saturated.		3					0.3	
		SP SM	Same as above. Saturated.							0.0	
		ML	Brown ORGANICS and SILT, trace f Gravel. Peat. Saturated.		4					0.4	
		SW	Grey cmf SAND, little mf Gravel. Saturated.							0.3	
	115									0.5	
										0.6	
										0.0	
										0.0	
										0.0	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-8 Page 1 of 1
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Inspector/Office AJT/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 14.0 ft.
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Start/Finish Date 5/14/20 - 6/5/20	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: A.J. Benjamin	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.85 ft.	Easting: 670299.3 ft. Northing: 791034.7 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
		SW	FILL Asphalt. Brown-black cmf SAND, some mf gravel, little Silt. Moist.		1					0.1 0.1 0.1	Boring backfilled with soil cuttings and sand.
	125	SW	Same as above.		2					0.7 0.4 0.7 0.6	4-5' BGS: Sample BC-SB-8-4-5-20200605 collected and submitted for analysis. 6-7' BGS: Sample BC-SB-8-6-7-20200605 collected and submitted for analysis.
5		SW	Crushed red brick. Tan-brown-black cmf SAND, some mf Gravel, little (-) Silt. Moist.								
	120	SW	Same as above. Moist.		3					2.0 4.8 7.8	8-9' BGS: Sample BC-SB-8-8-9-20200605 collected and submitted for analysis.
10		SW	ALLUVIAL DEPOSITS Grey cmf SAND, little mf Gravel, little Silt. Saturated. Brown tacky NAPL blebs partially coating soil grains with moderate fuel-like odor.							78.8	10-11' BGS: Sample BC-SB-8-10-11-20200605 collected and submitted for analysis.
	115	SP	Black-grey f SAND, little Silt, trace mf Gravel. Tacky NAPL blebs partially coating liner and on water surface with slight sheen. Moderate fuel-like odor.		4					5.6 4.8 4.3	12-13' BGS: Sample BC-SB-8-12-13-20200605 collected and submitted for analysis.

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-9 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/24/21 - 3/24/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.50 ft.	Easting: 670298.8 ft. Northing: 790968.7 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
	130	SP	FILL	NA	1				0.0	Boring backfilled with soil cuttings and sand.
		SP	Brown mf SAND, some (+) Silt, little Organics (roots), trace f Gravel. Dry. Grey/Black mf SAND, some cmf Gravel, little (-) Silt. Moist.							
		SP	Same as above.	NA	2				0.2	4-5' BGS: Sample BC-SB-9-4-5-20210324 collected and submitted for analysis.
5	125	SP	Tan cm SAND, little f Gravel. Moist.							
		SP	Grey/Black/Tan f SAND, some (-) Silt, little (+) cmf Gravel. Moist.							
		ML	ALLUVIAL DEPOSITS							
		ML	Grey Clayey SILT. Saturated. Black/Grey little Organics (wood). Saturated.	NA	3				233.8	
		ML	Grey Clayey SILT. Saturated.							
10	120	GP	Black/Grey mf GRAVEL, little cmf Sand, trace Silt. Saturated.							
		SP	Brown f SAND, some Silt, little (+) Organics (wood + roots). Saturated.							10.9-12.7' BGS: Moderate sweet-like smell. 11.5-12.5' BGS: Sample BC-SB-9-11.5-12.5-20210324 collected and submitted for analysis.
		GP	Grey mf GRAVEL, little mf Sand. Saturated.	NA	4				15.4	14-15' BGS: Sample BC-SB-9-14-15-20210324 collected and submitted for analysis.
15	115	SP	Grey mf SAND, little (-) Silt. Saturated.							

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY		Permit Number: NA	Boring No. BC-SB-10 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/24/21 - 3/24/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.57 ft.	Easting: 670286.6 ft. Northing: 791000.5 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
	130	SW	FILL	NA	1				1.3	Boring backfilled with soil cuttings and sand.
		SW	Brown cmf SAND, little Silt, little (-) Organics (roots), trace cmf Gravel. Dry. Red Crushed Brick.							
			Black/Grey cmf SAND, some (-) cmf Gravel, trace Silt. Crushed concrete 1.3-1.5' BGS. Dry.							
		SP	Grey/Black mf SAND, some mf Gravel, little Silt. Saturated.	NA	2				0.5	4-5' BGS: Sample BC-SB-10-4-5-20210324 collected and submitted for analysis.
	125	ML	ALLUVIAL DEPOSITS							
			Grey SILT, little mf Gravel, trace mf Sand. Saturated.							
		GP	Brown/Grey mf GRAVEL, some (-) mf Sand, trace Silt. Saturated.	NA	3				2.3	9-10' BGS: Sample BC-SB-10-9-10-20210324 collected and submitted for analysis.
	120	SP	Grey mf SAND, little f Gravel. Saturated.							
		GP	Grey mf GRAVEL, trace cmf Sand. Saturated.	NA	4				0.3	14-15' BGS: Sample BC-SB-10-14-15-20210324 collected and submitted for analysis. 14-14.4' BGS: Iridescent sheen, trace brown NAPL blebs.
	115									

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-11 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/24/21 - 3/24/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.18 ft.	Easting: 670280.2 ft. Northing: 791039.8 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
		SP SW	FILL Brown mf SAND, some (-) mf Gravel, little Silt. Dry. Crushed Concrete. Grey/Brown cmf SAND, some (-) cmf Gravel, little (-) Silt. Moist.	NA	1				0.0	Boring backfilled with soil cuttings and sand.
5	125	SP	Brown mf SAND, some (-) Silt, little cmf Gravel. Crushed Concrete.	NA	2				0.0	4-5' BGS: Sample BC-SB-11-4-5-20210324 collected and submitted for analysis.
10	120	SW SW	ALLUVIAL DEPOSITS Grey/Brown cmf SAND, some (+) cmf Gravel, little (-) Silt. Moist. Black/Grey cmf SAND, little (-) mf Gravel, little (-) Silt. Moist.	NA	3				49.3	9-10' BGS: Sample BC-SB-11-9-10-20210324 collected and submitted for analysis. 10.0-12.5' BGS: Moderate fuel-like odor, iridescent sheen visible on water on acetate liner.
15	115	SW	Black/Grey cmf SAND, little (-) mf Gravel, little (-) Silt. Moist.	NA	4				0.0	14-15' BGS: Sample BC-SB-11-14-15-20210324 collected and submitted for analysis.

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-12 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/24/21 - 3/24/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 129.29 ft.	Easting: 670339.8 ft. Northing: 791072.4 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
0	125	SP	FILL Concrete.	NA	1					0.0	Boring backfilled with soil cuttings and sand.
5	125	GP	Brown mf SAND, little (+) Silt, little (-) mf Gravel. Dry.								
		GP	Black mf SAND, some mf Gravel, little Silt. Dry.								
		GP	Tan mf GRAVEL, little (+) cmf Sand. Dry.								
		SW	Black cmf SAND, some mf Gravel, trace Silt. Dry.	NA	2					0.2	4-5' BGS: Sample BC-SB-12-4-5-20210324 collected and submitted for analysis.
		SP	Tan/Grey mf SAND, little f Gravel. Dry.								
		GP	Grey mf SAND, some Silt. Dry.								
		GP	Black/Grey cmf SAND, some mf Gravel, trace Silt. Moist.								
		SW	Black/Grey cmf SAND, some mf Gravel, trace Silt. Moist.	NA	3					3.9	9-10' BGS: Sample BC-SB-12-9-10-20210324 collected and submitted for analysis.
		ML	ALLUVIAL DEPOSITS Brown SILT, some f Sand, trace Organics (root+wood). Moist.								
		GP	Grey mf GRAVEL, little (+) cmf Sand. Saturated.								
		GP	Grey mf GRAVEL, little (+) cmf Sand. Saturated.	NA	4					0.0	14-15' BGS: Sample BC-SB-12-14-15-20210324 collected and submitted for analysis.

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-13 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/24/21 - 3/24/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 129.85 ft.	Easting: 670370.1 ft. Northing: 791044.9 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
		SP	FILL Concrete Black/Brown mf SAND, some mf Gravel, little Silt. Dry.	NA	1					0.0	Boring backfilled with soil cuttings and sand.
5	125	SW SP	Tan cmf SAND, some cmf Gravel. Dry. Grey mf SAND, some (-) Silt, little (+) cmf Gravel. Moist.	NA	2					0.0	4-5' BGS: Sample BC-SB-13-4-5-20210324 collected and submitted for analysis.
10	120	GP ML	Grey mf GRAVEL, some cmf Sand, trace Silt. Saturated. ALLUVIAL DEPOSITS Brown SILT, some (-) f Sand, little Organics (roots+wood). Saturated.	NA	3					4.8	9-10' BGS: Sample BC-SB-13-9-10-20210324 collected and submitted for analysis.
15	115	GP SP SW	Grey mf GRAVEL, some mf Sand. Saturated. Grey mf SAND, little Silt. Saturated. Grey cmf SAND, some mf Gravel, trace Silt. Saturated.	NA	4					0.0	14-15' BGS: Sample BC-SB-13-14-15-20210324 collected and submitted for analysis.

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-14 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/24/21 - 3/24/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.57 ft.	Easting: 670350.8 ft. Northing: 790980.3 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
130		SW	FILL	NA	1					0.0	Boring backfilled with soil cuttings and sand.
		SP	Grey cmf SAND, some cmf Gravel (includes crushed brick). Dry. Black/Grey mf SAND, some mf Gravel. Dry.								
5	125	SW	Brown cmf SAND, some (-) Silt, little (-) mf Gravel. Dry.	NA	2					0.0	4-5' BGS: Sample BC-SB-14-4-5-20210324 collected and submitted for analysis.
		SP	Brown mf SAND, some Silt, trace mf Gravel. Moist.								
		SP	Black mf SAND, some mf Gravel, trace Silt. Moist.								
10	120	SP	Black mf SAND, some (+) mf Gravel. Saturated.	NA	3					68.7	9-10' BGS: Sample BC-SB-14-9-10-20210324 collected and submitted for analysis.
		ML	ALLUVIAL DEPOSITS Grey Clayey-SILT, trace mf Gravel. Saturated								
15	115	SW	Grey cmf SAND, some mf Gravel, trace Silt. Saturated.	NA	4					9.8	14-15' BGS: Sample BC-SB-14-14-15-20210324 collected and submitted for analysis.

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-15 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/25/21 - 3/25/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.51 ft.	Easting: 670334.0 ft. Northing: 790957.9 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
130		SW	FILL	NA	1					0.5	Boring backfilled with soil cuttings and sand.
		SP	Brown cmf SAND, some cmf Gravel (includes crushed brick and concrete). Dry. Black/Grey/Tan mf SAND, some (-) mf Gravel, little Silt. Moist.								
		SP	Same as above.	NA	2					2.6	4-5' BGS: Sample BC-SB-15-4-5-20210325 collected and submitted for analysis.
5	125	CL	Grey Silty CLAY. Moist.								
		SW	Black cmf SAND, little (+) mf Gravel, little (-) Silt. Moist.								
		GW	Grey cmf GRAVEL (includes crushed brick), some cmf Sand, trace Silt. Saturated.	NA	3					29.1	9-10' BGS: Sample BC-SB-15-9-10-20210325 collected and submitted for analysis.
10	120	CL	ALLUVIAL DEPOSITS Grey Silty CLAY, trace Organics (wood). Saturated.								
		SP	Grey mf SAND, some mf Gravel, trace Silt. Saturated.	NA	4					2.2	14-15' BGS: Sample BC-SB-15-14-15-20210325 collected and submitted for analysis.
15	115										

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-16 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/25/21 - 3/25/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.30 ft.	Easting: 670290.8 ft. Northing: 790950.9 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
5	125	SW	FILL Brown cmf SAND, some cmf Gravel (includes crushed brick), trace Silt, trace Organics (roots). Dry.	NA	1					0.3	Boring backfilled with soil cuttings and sand.
		SP	Grey mf SAND, some mf Gravel, little Silt. Dry.								
		SP	Tan/Grey f SAND, some Silt, little (-) mf Gravel. Dry. Compact.								
		SW	Tan cmf SAND, little (+) mf Gravel, little (-) Silt. Dry.	NA	2					0.2	
		SW	Grey/Tan cmf SAND, some (-) mf Gravel, little Silt. Moist.								
10	120	SW	Grey/Tan cmf SAND, some (-) mf Gravel, little Silt. Moist.	NA	3					193.0	
		SP	Grey mf SAND, some Silt, little (+) mf Gravel. Moist.								
		SW	Grey cmf SAND, some mf Gravel, little Silt. Moist.								
		ML	ALLUVIAL DEPOSITS Brown Clayey SILT, little Organics (wood+roots). Moist.								
15	115	SP	Grey mf SAND, some mf Gravel, trace Silt. Saturated.	NA	4					0.0	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-17 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/25/21 - 3/25/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.78 ft.	Easting: 670255.4 ft. Northing: 790989.3 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
130		SW	FILL Brown cmf SAND, some (-) cmf Gravel (includes crushed brick), trace Silt, trace Organics (roots). Concrete.	NA	1				0.0	Boring backfilled with soil cuttings and sand.
		SW	Grey cmf SAND, some mf Gravel, little Silt. Dry. Concrete.							
5		SP	Concrete.	NA	2				0.0	4-5' BGS: Sample BC-SB-17-4-5-20210325 collected and submitted for analysis.
	125	SW	Grey mf SAND, some (-) Silt., little (+) cmf Gravel. Moist. Grey cmf SAND, some mf Gravel, trace Silt. Dry.							
		SW	Grey cmf SAND, some mf Gravel, trace Silt. Moist.	NA	3				0.0	9-10' BGS: Sample BC-SB-17-9-10-20210325 collected and submitted for analysis.
	120	SP	Grey mf SAND, little f Gravel, trace Silt. Moist.							
		SW	Black cmf SAND, little (-) cmf Gravel, little (+) Silt. Saturated.							
		SW	Black cmf SAND, little (-) cmf Gravel, little (+) Silt. Saturated.	NA	4				0.0	14-15' BGS: Sample BC-SB-17-14-15-20210325 collected and submitted for analysis.
	115									

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-18 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/25/21 - 3/25/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.57 ft.	Easting: 670248.4 ft. Northing: 791045.5 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
130	125	SW	Brown cmf SAND, some cmf Gravel (includes crushed brick and concrete, trace Silt, trace Organics (roots). Dry.	NA	1				0.0	Boring backfilled with soil cuttings and sand. 9-10' BGS: Sample BC-SB-18-9-10-20210325 collected and submitted for analysis. 10.6' BGS: Brown, tacky NAPL, iridescent sheen visible on water. 14-15' BGS: Sample BC-SB-18-14-15-20210325 collected and submitted for analysis. 14-16' BGS: Sporadic iridescent sheen visible on acetate liner.
5	125	SW	Brown cmf SAND, some cmf Gravel (includes crushed brick and concrete), trace Silt. Dry.	NA	2				0.0	
10	120	SW	Grey/Tan cmf SAND, some mf Gravel, trace Silt. Dry.	NA	3				10.5	
15	115	SP	Grey mf SAND, little Silt, trace f Gravel. Saturated.	NA	4				0.2	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-19 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/26/21 - 3/26/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 128.71 ft.	Easting: 670339.0 ft. Northing: 791100.4 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
0	128.71		FILL	NA	1				0.0	Boring backfilled with soil cuttings and sand.
5	125	SW SP	Concrete. Grey cmf SAND, some (-) mf Gravel, little Silt. Dry. Tan c SAND, little mf Gravel. Dry.							
5	120	SP SP	Grey/Tan mf GRAVEL, some mf Sand, trace Silt. Dry. Brown mf SAND, some (-) Silt, trace mf Gravel. Saturated.	NA	2				0.0	
10	115	SP SP	Brown mf SAND, some (-) Silt, trace mf Gravel. Saturated. Grey mf SAND, little Silt. Saturated.	NA	3				0.0	9-10' BGS: Sample BC-SB-19-9-10-20210326 collected and submitted for analysis.
15	115	SP	Grey mf SAND, little Silt. Saturated.	NA	4				0.0	14-15' BGS: Sample BC-SB-19-14-15-20210326 collected and submitted for analysis.

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-20 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/25/21 - 3/25/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.10 ft.	Easting: 670397.1 ft. Northing: 791014.0 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
		SW	FILL Concrete	NA	1				0.1	Boring backfilled with soil cuttings and sand.
5	125	SW	Grey/Black/Tank cmf SAND, some cmf Gravel (includes crushed brick), little (-) Silt. Dry.	NA	2				0.0	4-5' BGS: Sample BC-SB-20-4-5-20210325 collected and submitted for analysis.
10	120	SW ML	Grey/Black/Tank cmf SAND, some cmf Gravel (includes crushed brick and asphalt), little (-) Silt. Dry. ALLUVIAL DEPOSITS Brown Clayey SILT, little Organics (roots+wood). Moist.	NA	3				8.6	9-10' BGS: Sample BC-SB-20-9-10-20210325 collected and submitted for analysis.
15	115	GW	Grey cmf GRAVEL, some (+) cmf Sand, trace Silt. Saturated.	NA	4				0.0	14-15' BGS: Sample BC-SB-20-14-15-20210325 collected and submitted for analysis.

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-21 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/25/21 - 3/25/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.42 ft.	Easting: 670330.3 ft. Northing: 790939.1 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
	130	SW SP	FILL Brown cmf SAND, some cmf Gravel (includes crushed brick), trace Silt. Dry. Black mf SAND, some (-) Silt, mf Gravel, little Silt. Moist.	NA	1					0.0	Boring backfilled with soil cuttings and sand.
5	125	SP	Black mf SAND, some (-) Silt, mf Gravel, little Silt. Moist. Crushed Concrete.	NA	2					11.0	4-5' BGS: Sample BC-SB-21-4-5-20210325 collected and submitted for analysis.
10	120	GP	Black mf GRAVEL, little mf Sand. Saturated.	NA	3					49.7	9-10' BGS: Sample BC-SB-21-9-10-20210325 collected and submitted for analysis.
		ML	ALLUVIAL DEPOSITS Black SILT, little mf SAND. Saturated.								11.3-11.7' BGS: Fuel-like odor.
15	115	ML SW SW	Brown SILT, little mf Sand. Moist. Grey cmf SAND, little (+) mf Gravel, little (-) Silt. Moist. Wood. Grey cmf SAND, some mf Gravel, little (-) Silt. Saturated.	NA	4					31.2	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC			Permit Number:	Boring No.
	Project Number: 153292.200.002			NA	BC-SB-22
Project Location: Ardsley, NY			Page 1 of 1		
Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
Start/Finish Date 3/26/21 - 3/26/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA		Development Method: NA	
Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 129.58 ft.	Easting: 670401.1 ft. Northing: 791052.5 ft. TOC Elev: NA ft.	

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
		SW	FILL Concrete. Brown cmf SAND, some (-) Silt, little mf Gravel. Dr. Concrete.	NA	1					0	Boring backfilled with soil cuttings and sand. 9-10' BGS: Sample BC-SB-22-9-10-20210326 collected and submitted for analysis.
5	125	SP	Brown mf SAND, some (-) mf Gravel, trace Silt. Dry.	NA	2					0	
10	120	SP GP ML	Brown mf SAND, some (-) mf Gravel, trace Silt. Dry. Black/Grey mf GRAVEL, some cmf Sand, trace Silt. Saturated. Alluvial Deposits Grey/Brown Clayey SILT, little Organics (wood+roots). Saturated.	NA	3					5.4	
15	115	GP	Grey mf GRAVEL, some (-) cmf Sand, trace Silt. Saturated.	NA	4					0	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-23 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/25/21 - 3/25/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.47 ft.	Easting: 670379.9 ft. Northing: 790968.6 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log			PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology		
130		SW	FILL	NA	1				0.0	Boring backfilled with soil cuttings and sand.
		SP	Brown cmf SAND, some cmf Gravel (includes crushed brick and concrete), little Silt, trace Organics (roots). Dry.							
		SP	Grey/Tan mf SAND, some mf Gravel, little Silt. Dry.	NA	2				0.6	
5	125	SP	Grey/Tan mf SAND, some mf Gravel, little Silt. Dry.							
		SP	Tan/Orange mf SAND, some (-) Silt. Moist.							
		SP	Grey mf SAND, little Silt. Saturated.							
		SP	Brown mf SAND, some (-) Silt, little (-) Organics (wood) , little mf Gravel. Moist.							
10	120	SP	Tan/Orange mf SAND, some mf Gravel, little Silt. Moist.	NA	3				0.2	9-10' BGS: Sample BC-SB-23-9-10-20210325 collected and submitted for analysis.
		ML	Grey/Tan SILT, some f Sand. Saturated.							
		SP	Black mf SAND, some cmf Gravel, little Silt. Saturated.							
		CL	ALLUVIAL DEPOSITS Grey Silty CLAY. Saturated.							
		CL	Grey Silty CLAY. Saturated.	NA	4				0.0	
15	115	GP	Wood.							
		GP	Grey mf GRAVEL, some cmf Sand. Saturated.							
		SP	Wood							
		SP	Brown mf SAND, some mf Gravel, little Silt. Moist.							

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-24 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/26/21 - 3/26/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.26 ft.	Easting: 670324.4 ft. Northing: 790915.1 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
0		SW	FILL Brown cmf SAND, some cmf Gravel (includes crushed red brick), trace Silt, trace Organics (roots). Dry.	NA	1					0.0	Boring backfilled with soil cuttings and sand.
5	125	SP SP SP SW GP	Concrete. Brown mf SAND, some mf Gravel, little Silt. Moist. Tan mf SAND, little f Gravel, little (-) Silt. Moist. Tan mf SAND, little f Gravel, little (-) Silt. Moist.	NA	2					0.0	4-5' BGS: Sample BC-SB-24-4-5-20210326 collected and submitted for analysis.
10	120	GP SW	Grey/Brown cmf SAND, some (-) mf Gravel, little Silt. Moist. Tan mf GRAVEL, little mf Sand. Moist.	NA	3					6.9	9-10' BGS: Sample BC-SB-24-9-10-20210326 collected and submitted for analysis.
15	115	SW ML SW	Grey cmf SAND, some cmf Gravel, trace Silt. Saturated. ALLUVIAL DEPOSITS Brown Clayey SILT, little Organics (wood+roots). Saturated. Grey cmf SAND, some cmf Gravel, little Silt. Saturated.	NA	4					567.3	

BORING LOG

	Project Name: Former Akzo Nobel Pilot Plant - Ardsley LLC Project Number: 153292.200.002 Project Location: Ardsley, NY	Permit Number: NA	Boring No. BC-SB-25 Page 1 of 1
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Inspector/Office REH/Upper Saddle River, NJ	Checked By: BFT	Borehole Diameter: 3"	Screen Diameter and Type: NA	Slot Size: NA"	Total Boring Depth (ft) 17.0 ft.
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Start/Finish Date 3/26/21 - 3/26/21	Drilling Contractor: Pennington Environmental	Sampling: Continuous Core Hammer Type: NA	Development Method: NA
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Driller: Frank Egan	Drilling Method: Direct Push	Drilling Equipment: Geoprobe 7822 DT	Horiz Datum/Proj: NAD83 Vert Datum: NGVD 29 Ground Surface Elev: 130.27 ft.	Easting: 670288.7 ft. Northing: 790924.7 ft. TOC Elev: NA ft.
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Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log				PID Readings (ppm)	Remarks
						Sample Int	Recovery	Lithology	Backfill		
0	125	SP	FILL Brown mf SAND, some cmf Gravel (includes crushed red brick and concrete), little Silt, trace Organics (roots). Dr. Wood.	NA	1					0	Boring backfilled with soil cuttings and sand.
5	125	SW	Grey cmf SAND, some mf Gravel, little (-) Silt. Moist.	NA	2					16.6	6.3-6.7' BGS: Iridescent sheen visible on water.
10	120	SP	Grey mf SAND, some mf Gravel, little Silt. Moist.	NA	3					316.5	
15	115	ML	ALLUVIAL DEPOSITS Brown Clayey SILT, little Organics (roots+wood). Saturated.	NA	4					25.8	14-17' BGS: Sporadic iridescent sheen visible on water.

APPENDIX F – FIELD SAMPLING PLAN

Field Sampling Plan
Ardsley LLC
Site #C360146
Town of Greenburgh, Westchester
County, New York

Prepared for
EnviroAnalytics Group, LLC, St. Louis,
Missouri
April 2024

Field Sampling Plan
Ardsley LLC
Site # C360146
Town of Greenburgh, Westchester County, New York

Prepared for
EnviroAnalytics Group, LLC
1515 Des Peres Road, Suite 300
St. Louis, Missouri 63131

April 2024

Project Number: 153292



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Section 1

Introduction

The Site Management Plan (SMP) activities associated with the Ardsley LLC Site will be conducted in accordance with the procedures specified in this Field Sampling Plan (FSP) to ensure that suitable and reproducible field techniques are employed.



Section 2

Soil Sampling

Before drilling each borehole, the drill rig, augers, drill rods, split-spoon samplers, and any other equipment that will enter the borehole will be steam cleaned.

2.1 Field Screening of Soil Samples

Each soil sample will be field screened for VOCs using a photoionization detector (PID). A PID is a non-specific vapor/gas detector that uses photoionization to detect various chemical compounds, both organic and inorganic, in air. Since it is nonspecific, it cannot identify substances, it can only roughly quantify them.

The PID site will be equipped with a 10.6 eV lamp. This type of lamp is capable of ionizing and detecting a broad range of volatile organic compounds. More information regarding the use of the PID for monitoring working conditions and determining the appropriateness of personal protection levels can be found in the Site-Specific Health and Safety Plan (HASP).

Calibrating

- The PID will be calibrated in accordance with the procedures outlined in the owner's manual and the battery will be checked for proper voltage at the beginning of each day before use.
- Before calibrating; the instrument will be allowed to equilibrate with its surroundings temperature for about five minutes.
- The instrument will be turned on and set on measurement mode.
- The calibration result and background readings will be recorded in the field book.
- If the PID shows erratic readings, additional calibration will be performed

Sampling

1. The acetate liner or split spoon will be opened to access the soil sample.
2. Next, "pockets" will be burrowed in the soil with a clean sampling spoon or a gloved hand.
3. The probe/tip of the PID will be placed in the pocket and "enclosed" with a gloved cupped hand.
4. Conditions will be allowed to stabilize and the reading recorded in the field book.
5. The portion of the soil column registering the highest PID reading above background will be collected for laboratory analysis.
6. Because the PID is sensitive to wind, high humidity and moisture, all efforts will be taken to limit the impact of these elements on the soil screening process.

For head-space screening, immediately transfer a representative subsample of the material to a clean glass jar and seal its lid with aluminum foil. Allow the sample to equilibrate for 15 to 30 minutes, then insert tip of the PID through the foil and record the maximum instrument reading.

2.2 Soil Sample Containerization and Shipping

All soil sample handling will be in accordance with the procedures specified in the QAPP (Section 6.2.7).

Soil to be analyzed for VOCs will not be homogenized. Soils to be analyzed for other parameters will be homogenized and containerized in the sample jars. The subject soils will be transferred into the sample jar using a laboratory decontaminated plastic trowel or spoon or directly by gloved hand. The sample containers will be placed in a cooler that will be maintained at 4 °C. The samples will be packaged so as to minimize the potential for breakage. All glass jars will be wrapped with protective packaging prior to placement in the cooler for transport. Plastic bags filled with ice and sealed, or blue ice containers will be placed inside each cooler with the samples to ensure that the preservation temperature is maintained. The sample coolers will be transferred, in accordance with the chain of custody procedures, to a courier for next day delivery to the analytical laboratory.



Section 3

Monitoring Well Drilling and Construction Procedures

Before drilling each borehole, the drill rig, augers, drill rods, split spoon samplers, and any other equipment that will enter the borehole will be steam cleaned.

3.1 Split-Spoon Sampling

Soil sampling with split spoons will be conducted in accordance with the standard penetration test (ASTM Method D 1586). The split spoon sampler will be driven by dropping a 140 pound hammer from a height of 30 inches. The number of blows required to advance the sampler over each six-inch interval will be recorded.

Each sample will be described in accordance with the Unified Soil Classification System and the Burmister (1958) Soil Classification System. This information, together with a record of the length of the recovered portion of the sample interval, will be recorded. A representative portion from each sample will be stored in a glass jar for future reference.

3.2 Well Construction

Construction of monitoring wells will be in accordance with the following installation sequence.

- Advance a borehole through the overburden to the target depth using 4.25 inch inside diameter (ID) hollow-stem augers.
- Collect continuous soil samples from the ground surface to the target depth using a two-inch diameter, two-foot long split-spoon sampler in accordance with the procedures described above.
- Install a two-inch Schedule 40 PVC riser casing and well screen (PVC) with flush threaded joints in the boring through the augers. The screen will be ten to fifteen feet in length with 0.010-inch wide slots.
- Place a sand pack in the annular space from the bottom of the boring to two feet above the top of the screen. The sand will consist of clean, washed and rounded silica (quartz) sand designed for use with the specified screen slot size. A six-inch filter pack of finer grained sand (choker sand) above the sand pack will be placed prior to the bentonite seal.
- Place a two-foot thick bentonite seal above the sand pack. In monitoring wells that exhibit a water table above the sand pack, bentonite pellets will be used to form the seal. Where the top of the sand pack is above the water table, a pre hydrated bentonite slurry will be used to form the seal. Place a six- to twelve-inch thick fine-grained filter sand above the bentonite seal.
- Measurements of material depths will be made by frequently sounding the annulus with a weighted tape measure during installation.
- Cement/bentonite grout will be tremie emplaced in the remaining annular space from the top of the bentonite seal and filter sand to approximately ½-foot below ground surface. The grout will consist of one bag (94 pounds) of Portland cement and five pounds of bentonite mixed with six gallons of potable water.

- Install a four-inch diameter stick-up or flush-mount protective casing (with locking cap) set in concrete in the remaining annular space from the top of the cement-bentonite grout seal to ground surface. Complete the surface installation with a concrete pad sloped to encourage surface drainage away from the well installation.

3.3 Well Construction Materials

Screen and Riser Casing

The screen and riser casing will be constructed of two-inch diameter Schedule 40 PVC. The joints will be flush threaded. The openings in the screen will consist of factory cut 0.010-inch wide slots.

Sand Pack and Filter Pack

The sand pack and the filter pack material will consist of clean, washed, and rounded silica (quartz) sand packaged and delivered in sealed bags. The material will contain less than five percent non siliceous material by weight. For the sand pack, 90 to 99 percent of the material will be retained by the selected screen, and it will have a uniformity coefficient of less than 2.5. The filter pack will be uniformly graded sand of which 100 percent by weight passes a No. 30 sieve and less than 2 percent by weight passes the No. 200 sieve.

Bentonite

The bentonite will be powdered, granular, or pelletized sodium bentonite furnished in sacks or buckets from a commercial source and free of impurities which could impact the water quality in a monitoring well.

Grout

The grout mixture used for the installation of the monitoring wells will consist of one bag (94 pounds) of Portland Cement and six pounds of bentonite mixed with six gallons of potable water. The grout will be placed by the tremie method.

Protective Casing

Each monitoring well will be completed with a four inch or larger diameter stick-up or flush-mounted protective casing with a locking cap. The protective casing will be installed as per ASTM standards for monitoring well construction.

3.4 Well Development

Each well will be developed after a minimum period of 24 hours has passed following its construction (to allow for the cement/bentonite grout to set). Development will be conducted by the use of a surge block and/or a small diameter electric submersible pump (Grundfos Redi Flo2® or equivalent), after the grout has set. The purpose of well development is to remove sediment in the well and to produce a surging effect within the sand pack. This surging of water into and out of the sand pack will loosen and remove the finer-sized particles in the pack and develop a natural gradation from the well screen to the formation. Since the development process must be forceful enough to penetrate into the sand pack, an appropriately sized surge block must be used. During the well development process, water quality parameters (pH, temperature, electrical conductivity, and turbidity) will be recorded to document improvement if attainable. Development will be considered complete once stabilization of the field parameters has been achieved and when there is no visible increase in the clarity of the evacuated water.

Section 4

Low-Flow Groundwater Sampling

4.1 Objectives

The objective of the low flow groundwater procedure is to collect samples from monitoring wells while exerting minimum stress on the water-bearing formation and minimizing the disturbance of sediment in the well. The low-flow purging and sample collection technique follows the technique described within the USEPA documents titled “Ground Water Sampling Procedure, Low Stress (Low Flow) Purging and Sampling”, (USEPA, Region 2, March 16, 1998) and “EPA Ground Water Issue: Low flow (Minimal Drawdown) Ground-water Sampling Procedures” (EPA/540/S-95/504, April 1996). The general approach is to minimize the drawdown in the well during purging, thereby reducing disturbance prior to and during sampling. Typically this is accomplished by limiting the flow rate during purging and sampling to rates in the 100 to 500 ml/min range. The intended advantage of this procedure is the reduction in the turbidity and aeration of the samples, thereby producing samples which are more representative of the natural groundwater conditions. If well sampling or purging results do not meet the low-flow criteria (such that drawdown enters the screened zone or exceeds 0.3 feet) it will be noted in the field data sheets.

4.2 Equipment

- A submersible bladder pump or small diameter electric submersible pump (e.g., Grundfos Redi-Flo2® or equivalent) is preferred when increased levels of dissolved oxygen (D.O.) is a concern in the collected groundwater sample.
- The discharge tubing will be laboratory- or food grade- polyethylene.
- Monitoring equipment during purging shall include a flow through cell equipped with field measuring devices for pH, turbidity, specific conductance, temperature, oxidation-reduction potential (ORP), and/or D.O.
- Water level measuring device, accurate to ± 0.01 foot.
- Flow-rate measurement supplies such as graduated cylinders and stopwatch.
- Decontamination equipment and supplies.
- Well construction data.

4.3 Preliminary Site Activities

- Remove well cap and identify the pre-established elevation reference point on top of inside well casing.
- Measure and record the depth to groundwater (static water level) to within the nearest 0.01 foot from the reference point. Take care to minimize disturbance to the water column and avoid dislodging particulates attached to the sides of the well casing.
- In no case should any well be sounded prior to sampling as this may mobilize sediment in the bottom of the well.
- If dedicated equipment such as bladder pumps are not used, consideration should be given to placing the pump in the well 24 hours prior to sampling to allow any sediments in the well to settle.

4.4 Sampling Procedure

- Install Pump Slowly lower the pump and downhole measuring device, as applicable into the well to a depth corresponding to the center of the screened interval. The intake should be kept within the well screen but no deeper than two feet below the top of the screen to prevent mobilization of sediment from the bottom. If less than two feet of water is present in the well prior to sampling, the intake shall be centered in the water column. For problematic monitoring wells, consideration should be given to installing the pump approximately 24 hours before initiating purging.
- Re-Measure Groundwater Level - Before starting the pump, measure the water level again with the pump in the well. Do not proceed until the water level has returned to within approximately 0.3 feet of the static level.
- Purging - Start pumping the well at approximately 200 to 500 milliliters per minute. The water level should be monitored as frequently as feasible immediately after the start of purging and then at least as frequent as every three to five minutes once the level has generally stabilized. Ideally, a steady flow rate should be maintained which results in a stabilized water level. The goal should be to not induce a drawdown in excess of approximately 0.3 feet (or approximately 2 percent of saturated thickness in low permeability formations). Pumping rates should, if needed, be reduced to the minimum capabilities of the pump to effect stabilization of the water level. However, care should be taken to maintain pump suction and to avoid entrainment of air in the tubing. If the recharge rate of the well is very low, care should be taken to avoid loss of pressure in the tubing line, cascading through the sand pack, or pumping the well dry. Record each adjustment made to the pumping rate, observation of changes in appearance of the water collected (e.g., increased turbidity or color) and the water level measured immediately after each adjustment.
- Monitor Indicator Parameters - During purging of the well, monitor the following field indicator parameters at the frequencies stated above; turbidity, temperature, specific conductance, pH, ORP and/or D.O. In line analyzers and continuous readout displays are recommended for all parameters so that the sample is not exposed to air prior to the measurement. However, if this is not feasible, temperature and/or ORP may be omitted from the list of in line parameters. The well is considered stabilized and ready for sample collection when three consecutive readings are within a maximum range (from minimum to maximum measurements) as follows: +0.1 for pH, 3% for specific conductance, +10% for D.O., +10 mV for ORP, and +10% for turbidity. Measurement of the indicator parameters should continue every three to five minutes until these measurements indicate stability in the water quality. If the parameters have not stabilized after about an hour, purge the well until a minimum of 3 well volumes have been removed and proceed to collect the samples. This alternate procedure should be noted on the field data sheet.
- Collect Samples - Samples should be collected at flow rates of between 100 and 250 ml/min, or under flow conditions such that drawdown of the water level within the well is not induced beyond the tolerances specified above. If volatile organic compounds (VOCs) are to be analyzed, they should be collected first and discharged directly from the pump discharge tubing into pre preserved sample containers. Sample containers should be filled by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence.
- Remove Pump and Tubing - After collection of the samples, the pump's tubing shall be properly decontaminated or discarded.
- Well Depth - Measure and record well depth.
- Close Down - Secure the well.



- Decontamination - The sampling equipment will be decontaminated between use at each well, as described in section 6.1.8.

Section 5

Chain-of-Custody Procedures

All samples will be subject to complete custody documentation in accordance with the requirements in the QAPP.

In the field, samples will be in physical possession or in view of the sampler/custody holder (typically the field sampling team leader). The sample may also be placed in a (designated) secure area by the custody holder.

Before sending samples to the analytical laboratory (typically by lab courier pick up), all appropriate sections of the Chain-of-Custody (COC) will be filled out. Sample containers will be labeled and must contain at least the following information: sample ID, sample date and time, and requested analysis. The COC will accompany the samples to the analytical laboratory, a copy of the COC stays in custody of the sampler.

The laboratory personnel will be responsible for the care and custody of samples from the time of receipt until the sample is exhausted or disposed. Custody rules will apply throughout the life of the sample in the laboratory. All documentation of sample custody within the laboratory will become a permanent part of the laboratory project files. The laboratory will submit an analytical report to Brown and Caldwell, including all custody documentation.

Section 6

In-Situ Hydraulic Conductivity Test (Slug Test)

In order to determine the in place hydraulic conductivity of the geologic material screened by the monitoring wells, rising head slug tests will be performed. These tests involve lowering the water level in the well and measuring the change in head with respect to time as the well is allowed to recover. In wells which are slow to recover the water level will be bailed down as described below. The measurements in these wells will be taken manually. Wells which recover too quickly for this method will be tested by removing only one bailer of water and the recovery measured by means of a pressure transducer system.

The rising head slug tests for fast recovery wells are conducted as follows:

- The static water level in the well to be tested is measured and recorded.
- The pressure transducer is placed in the well to a minimum depth of three feet below the static water level.
- Readings are made using the data logger until three consecutive readings are the same (static conditions).
- The data logger is then calibrated to read 0.00 feet at static conditions. Following the installation and calibration of the pressure transducer, a disposable bailer is lowered into the well and placed just below the water surface.
- Depth to water measurements are then recorded until the water level returns to static conditions following introduction of the bailer. If static conditions are not reached within 15 minutes following introduction of the bailer or slug, the well will be tested using the procedures described below for slow recovery wells.
- Once static conditions are re-established, the bailer will be rapidly removed from the water column, thus creating a virtually instantaneous decline of the water level in the well. Coincident with the withdrawal of the bailer, automatic logging of the water levels will be initiated using the data logger.
- The water level measurements will continue until water levels recover to within a minimum of 10 percent of the original static level (90 percent recovery), or an elapsed time of one hour. If after one hour the well has not recovered to the above criteria, at the discretion of the hydrogeologist, the transducer will be removed and the well will be re tested at a later date using the procedures described below for slow recovery wells.
- Data stored in the data loggers will be uploaded to a portable computer and will be manipulated at a later date.

For slow recovery wells the following procedure is used:

- The static water level is measured and recorded.
- A disposable bailer is lowered into the well and placed just below the water surface. Depth to water measurements are then recorded until the water level returns to static conditions following introduction of the bailer.

- The bailer is then removed and water level measurements are collected by hand (measuring tape or electronic water level indicator) at a frequency which will provide approximately 15 to 20 data points during recovery to within 10 percent of the total drawdown, if feasible.
- The data will be evaluated using the Bouwer and Rice method (1976) for unconfined aquifers and Cooper et. al., (1967) for confined aquifers.



Section 7

Water Level Monitoring

The depth to groundwater will be measured with an electronic depth indicating sounder. The probe will be lowered into the well until the meter indicates water is reached. The probe will be raised above the water level and slowly lowered again until water is indicated. The cable will be held against the side of the inner protective casing at the point designated for water level measurements and a depth reading taken. The value will be recorded to the nearest 0.01 feet in a field notebook. The probe will be raised to the surface and together with the amount of cable that was wetted in the well, will be decontaminated with a distilled water rinse.

Section 8

Soil Vapor Intrusion Monitoring

SVI monitoring will be performed if buildings are constructed in areas with a potential for vapor intrusion. The SVI monitoring will be conducted annually, during the heating season (November 15 - March 15). The SVI monitoring will consist of sub-slab soil vapor, indoor air and ambient air samples to be collected concurrently and analyzed for VOCs by USEPA Method TO-15 (SUMMA® canisters). The sampling will be conducted in accordance with “Guidance for Evaluating Soil Vapor Intrusion in New York State” (NYSDOH, October 2006).

Prior to the SVI sampling, a pre-sampling inspection will be performed to identify and minimize conditions that may interfere with the testing. The inspection will evaluate the type of structure, floor layout, air flows and physical conditions of the office building. Potential interference from products or activities releasing volatile organic compounds (VOCs) will be identified. During the inspection, containers will be screened with a photo-ionization detector (PID) to determine whether VOCs are leaking from the container. The information from the inspection will be recorded on a building inventory form similar to the one provided in Appendix B of the above-referenced NYSDOH guidance document.

If practicable, potential sources of VOCs will be removed from the building prior to testing. If appropriate, once interfering conditions are corrected, the building will be ventilated prior to sampling to minimize residual contamination in the indoor air. Ventilation (if any) will be completed 24 hours or more prior to the scheduled sampling

8.1 Installation of Soil Vapor Probes

Soil vapor probes from which soil vapor samples will be collected will be installed as follows:

- A direct-push drill rig (e.g., GeoProbe®) will be used to advance a 2-inch diameter borehole approximately 2 feet into the subsurface.
- Once the borehole is complete, a 1-inch diameter PVC slotted screen 0.010” will be set in the borehole with clean silica sand filter pack material placed in the annulus surrounding the screen. The length of screen used at the sample locations will be approximately 18 inches.
- A hydrated bentonite slurry will be placed in the annular space above the filter pack to provide a seal in the borehole from surface contamination and to minimize infiltration of ambient air.
- The top of the soil vapor probe will be completed with a male-threaded, appropriately sized tubing-barb to be used with the sampling tubing. No organic thread lubricant of any kind will be used when constructing this to minimize the chance of sample contamination. The barb will be completed with a cap so that infiltration by outside air will be minimized.
- For semi-permanent installations, the soil vapor probe may be completed with a flush-mount cast iron well vault. Alternatively, upon completion of soil vapor sampling, the soil vapor probe will be abandoned by pulling the temporary well screen out of the ground and backfilling the borehole with a hydrated bentonite slurry.

8.2 Collection of Soil Vapor Samples

Soil vapor samples will be collected no less than two weeks following the installation of the soil vapor probe. Samples will not be collected on days in which high humidity or rainfall may impact the readings from the field monitoring equipment.

- A new, dedicated Teflon® lined polyethylene sampling tube will be connected to the tubing-barb for use in sampling. The tube will be secured to prevent debris from clogging the tube and/or potentially contaminating the sample.
- Prior to sampling for VOCs (EPA Method TO-15), the sampling probe will be purged for approximately 10 minutes. This is intended to exchange air from the sampling tubing, which could potentially dilute or otherwise bias the sample. The maximum PID reading (if any) and the subsequent sustained reading will be recorded in the field notebook and/or data collection forms.
- As per the NYSDOH guidance, a Helium Tracer Gas Test will be performed on each vapor sample point to verify that no infiltration of atmospheric air occurs during sampling. This consists of applying a shroud that covers the sampling probe. The Teflon tubing will then be connected to a portable helium detector. Helium gas is then introduced inside the shroud to enrich the atmosphere surrounding the probe. A vapor sample is then measured from the tubing for the presence of high concentrations (>10%) of the tracer. Should a short circuit to the system be encountered, the probe fittings will be checked and a bentonite seal will be applied to the area where the probe intersects the surface area of the borehole. The tracer gas will be applied again and the test will be repeated until the tracer gas is no longer detected through the sample tubing.
- After purging and tracer testing, the tubing will be attached to a one liter SUMMA canister provided by the analytical laboratory. The canister will have been evacuated by the laboratory prior to shipment to the site. After the canister is attached to the tubing, the canister valve is opened, and the vacuum in the canister causes the soil gas to flow into the canister. The canister will be allowed to fill for approximately one (1) hour. The vacuum pressure in the canister will be checked at the conclusion of sampling with a pressure gauge to confirm that sample collection was complete. A vacuum pressure reading of 5 Hg indicates that the canister is filled and internal pressure is high enough to allow the laboratory to extract the sample.
- The samples will be sent to a NYSDOH ELAP certified analytical laboratory for analysis of VOCs by USEPA Method TO-15.

APPENDIX G – QUALITY ASSURANCE PROJECT PLAN

Quality Assurance Project Plan
Ardsley LLC
Site #C360146
Town of Greenburgh, Westchester County,
New York

Prepared for
EnviroAnalytics Group, LLC, St. Louis,
Missouri
April 2024

Quality Assurance Project Plan
Ardsley LLC
Site #C360146
Westchester County
Town of Greenburgh, Westchester County, New York

Prepared for
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Table 1. Analytical Summary

Table 2. Sample Containers, Preservation Techniques, and Holding Times

Section 1

Introduction

The SMP activities will be conducted in accordance with the quality assurance procedures specified in this Quality Assurance Project Plan (QAPP) to ensure that suitable and verifiable sampling and analytical results are obtained

Section 2

Equipment Decontamination

Field decontamination will be accomplished using the methods described below.

2.1 Drilling Equipment

All down-hole drilling equipment will be decontaminated before beginning drilling activities at the site, and after completion of each boring or monitoring well. Decontamination of the drilling equipment will be conducted over a decontamination pad using a high-pressure steam cleaner. Rinsate accumulated in the decontamination pad will be pumped into DOT-approved 55-gallon steel drums pending waste characterization and appropriate off-site disposal.

2.2 Soil Sampling Equipment

Non-dedicated (reusable) soil sampling equipment includes equipment such as stainless-steel sample spatulas, hand-augers, shovels, picks, split-spoons, and mixing bowls. Prior to beginning sampling and after collection of each sample, each piece of reusable equipment will be decontaminated with the following procedure:

- Brush wash in potable water and laboratory detergent
- Rinse with potable water
- Rinse with deionized water

2.3 Water Level Indicators

Upon completion of the water level measurements, the probe will be raised to the surface and along with the wetted portion of the tape will be decontaminated with the following procedure:

- Wash in potable water and laboratory detergent
- Rinse with potable water
- Rinse with deionized water

2.4 Submersible Pumps

When a submersible pump is used for well purging and/or sampling, it will be cleaned prior to and between each use. (Pump tubing will be discarded after each use.) The cleaning process will consist of the following:

- Wash the exterior of the pump with a detergent solution.
- Flush laboratory detergent solution through the pump by placing the pump in a bucket filled with the detergent solution.
- Flush potable water through the pump by placing the pump in a bucket filled with potable water.
- Rinse the packer with potable water.
- Rinse the internal and external portions of the pump with deionized water.
- The power leads to the pump will be decontaminated in a similar fashion.

Section 3

Analytical Methods

Table 1 below provides specifications for all environmental media samples and quality control samples.

Table 1. Analytical Summary

	Media			
	Groundwater (MNA)	Groundwater (Post-ISCO)	Soil	Soil Vapor, Indoor/Ambient Air
Laboratory Analyses [®]				
TCL VOCs Method 8260 ^(a)	X	X	X	
VOCs Method TO-15				X
TCL SVOCs Method 8270C			X	
TCL Pesticides Method 8081A			X	
TAL Metals Method 6010B/7471A			X	
PCBs Method 8082			X	
Chloride	X	X		
Iron (total)	X			
Manganese (total)	X			
Aluminum (total)	X			
Nitrate/nitrite	X			
Sulfate	X	X		
Ethane, ethene, and methane ^(a)	X			
Alkalinity (carbonate/bicarbonate)	X	X		
Dissolved total organic carbon (TOC)	X			
Volatile fatty acids ^(a)	X			
TPH-DRO	X			
Metals (total/dissolved): Arsenic, Barium, Cadmium, Chromium, Hexavalent Chromium, Copper, Lead, Iron, Manganese, Selenium		X		
Field Measurements				
Carbon dioxide (Hach Kit) ^(b)	X			
Iron (II) (Hach Kit) ^(b)	X			
Manganese (II) (Hach Kit) ^(b)	X			
Sulfide (Hach Kit) ^(b)	X			
Conductivity	X	X		
ORP	X	X		
pH	X	X		
DO	X	X		
Temperature	X	X		
Turbidity	X	X		
Hydrogen Sulfide (Hach Kit) ^(b)	X			

Notes:

- (a) *Samples to be collected in zero headspace containers to prevent exchange of gases between the samples and the atmosphere.*
- (b) *Method will be per manufacturer's procedures.*
- (c) *Minimum required reporting limits, where applicable, will be equivalent to the 6 NYCRR Part 703 Class GA Groundwater Standards*

Data (excepting field measurements) will be reported in Category B format along with the required quality assurance data on the required forms and with all raw data including calibration data, blank data, chromatograms, quant reports, sample prep logs, sample run logs, and percent moisture work sheets and will be provided in electronic format.

Section 4

Field Quality Assurance/Quality Control Samples

Quality control procedures will be followed so that laboratory preparation, sampling, and transport activities do not bias the results of the chemical analysis. Trip blanks and field blanks will be prepared and analyzed as described below to provide a quantitative basis for validating the analytical data.

4.1 Trip Blanks

Trip blanks will be prepared only when aqueous sampling is performed, and only when that sampling involves VOC analysis; trip blanks will not be prepared for non-aqueous samples. A trip blank will consist of an analyte-free water sample prepared by the laboratory and will accompany the sample container shipment from the laboratory to the field and back. Trip blanks will be subject only to volatile organic analysis. Trip blanks will be collected at a rate of one per sample shipment or one per two-day sampling event, whichever is greater.

4.2 Field (Equipment) Blanks

Field blanks, also referred to as equipment blanks, are used to determine if non-dedicated sampling equipment used in the field might contribute appreciable concentrations of constituents to the samples. Laboratory grade deionized water is run over, or through, the sampling equipment and collected in the same type of sample jars as other samples. Ideally, the results for this analysis will show non-detects for the constituents analyzed. One Field Blank will be collected every day that samples are collected, or one per 20 samples, whichever is greater.

Field blanks are not collected for soil vapor or air samples.

4.3 Duplicate Samples

Field duplicates are a second aliquot of a field sample. Variations in the sample and duplicate can be indicative of possible inaccuracy or imprecision of laboratory methodologies. One Field Duplicate will be collected for every 20 samples.

Field duplicates will be collected in one of two ways, depending on the analysis to be performed. For each analyte, with the exception of VOCs, the sample volume will be homogenized in plastic bowls with plastic spoons, or by kneading the material in a plastic bag (e.g., Ziploc® bag). Once homogenized, the material will be evenly distributed into the sample containers. Sample collection materials (bowls, spoons, plastic bags, gloves) will be laboratory decontaminated or single use.

Homogenization of sample material that will be analyzed for VOCs is inappropriate given the volatile nature of these constituents; homogenization would only provide a greater opportunity for constituent loss due to exposure to the atmosphere.

4.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples

Additional sample volumes will be collected for MS/MSD analyses to evaluate the effect of the sample matrix on the analytical method. Additional sample volumes for MS/MSD analyses will be collected at a frequency of one pair per sample batch, or at least 1 per 20 samples. The MS/MSD samples will be collected at the same time the primary sample is collected and should be collected from a sample location that contains concentrations of the constituent of concern.

MS/MSD samples are not collected for soil vapor or air samples.

Section 5

Sample Handling Requirements

5.1 Sample Containers and Preservatives

The appropriate sample containers and associated preservatives must be obtained following the applicable NYSDEC and USEPA guidance. The containers and preservatives will be supplied by the laboratory that will conduct the analyses. It is crucial that the sample containers be carefully organized and inventoried prior to the initiation of the sampling program in order to provide sufficient time to rectify problems, should they occur. Finally, pre-printed sample labels will be placed on the sample containers.

Table 2 lists the various required preservation methods, container types, and maximum sample holding times.

Table 2. Sample Containers, Preservation Techniques, and Holding Times

Analytical Parameter	Typical ^{a,e} Volume Required (mL)	Container ^a	Preservative	Maximum Holding Time
Volatile organic compounds (VOCs)	25-120	G/vial Teflon [®] -lined septum	Cool, 4 °C & HCl to pH<2 ^{c,d}	14 days ^c
Extractable organic compounds (B/N/A)	1000-2000	G/Teflon [®] -lined cap	Cool, 4 °C	7 days/extraction +40 days/analysis
Pesticides, herbicides, and total organic halogens (TOX)	1000-4000	G/Teflon [®] -lined cap	Cool, 4 °C	7 days/extraction +40 days/analysis
Metals ^b (except Hg and Cr ⁶)	1000-2000	P/G (special acid cleaning)	HNO ₃ to pH<2	6 months
Mercury ^b	300-500	P/G (special acid cleaning)	HNO ₃ to pH<2 & 0.05% K ₂ Cr ₂ O ₇	28 days
Chromium ^{+6b}	300-500	P/G	Cool, 4 °C	24 hours
Miscellaneous				
Biological Oxygen Demand (BOD)	1000	P/G	Cool, 4 °C	24 hours
Chemical Oxygen Demand (COD)	50	P/G	H ₂ SO ₄ to pH <2	28 days
Chloride	50-500	P/G	None required	28 days
Coliform ^d	100	P/G	Cool, 4 °C	on site/24 hours
Bicarbonate	500	P/G	Cool, 4 °C	14 days
Carbonate	500	P/G	Cool, 4 °C	14 days
Conductivity	100	P/G	Cool, 4 °C	on site/28 days
Fluoride	100-500	P	None required	28 days
Hardness	100	P/G	HNO ₃ to pH <2	6 months
Nitrate/Nitrite	100-250	P/G	Cool, 4 °C & H ₂ SO ₄ to pH<2	28 days
PH	100	P/G	Cool, 4 °C	On site
Phenolics	500-1000	G	Cool, 4 °C & H ₂ SO ₄ to pH<2	28 days
Sulfate	100-500	P/G	Cool, 4 °C	28 days
Total Dissolved Solids (TDS)	200-500	P/G	Cool, 4 °C	7 days
Total organic carbon (TOC)	25-100	P/G	Cool, 4 °C & H ₂ SO ₄ or H ₂ SO ₄ to pH <2	28 days
Total Suspended Solids (TSS)	200-500	P/G	Cool, 4 °C	7 days
Turbidity	100	P/G	Cool, 4 °C, Dark	48 hours

Notes:

- Polyethylene (P) or Glass (G) or Amber Glass (AG).
- "Dissolved" (or filtered) metals should be field filtered prior to preservation.
- Samples receiving no pH adjustment must be analyzed within 7 days.
- 0.008 percent Na₂S₂O₆ should be added in the presence of residual chlorine.
- Analytical laboratory should be consulted for specific volume requirements.

Sources: EPA
ASTM D-4448-85

5.2 Sample Labels and Nomenclature

Sample labels are required on sample containers for the primary purpose of sample identification. Specific field data need not be recorded on the labels, since such information will be recorded on field data sheets. The sample labels will contain the following information:

- Sample ID Number
- Location identification number (i.e., well number, boring designation)
- Analysis to be performed
- Preservative (optional)
- Project name and number
- Date and time of sample collection
- Initials of sampler

Each sample collected will receive a distinct sample identifier. The sample identifier will consist of three parts; the first part will identify the area the sample was collected from within, the second part will identify the sample matrix, the third part will identify the specific sample. A complete list below identifies the different area and matrix identifiers. As an example, a soil sample collected using a split spoon or a macro core in Area A from Boring 1 would be designated A B 001. The “A” designates the area, “B” identifies the sample as a soil boring, and “001” identifies the specific boring number. Each boring identifier will additionally have the depth interval added to the end of the identifier. In the example above, if the sample was collected from the 1-2-foot interval the sample identifier would be “A-B-001-01-02”.

The Quality Assurance/Quality Control (QA/QC) samples will also be identified in three parts; sample type, date, and a unique number if more than one type is collected in a single day. For example, a duplicate would be identified as “DUP-mmddyy” and a second duplicate collected on the same day would be “DUP-mmddyy-1”.

Below are the matrix/sample codes:

- “SVI” indicates a soil vapor, indoor/ambient air sample
- “MW” indicates a groundwater (monitoring well) sample
- “FB” indicates a field blank
- “TB” indicates a trip blank
- “DUP” indicates a duplicate

5.3 Field Sample Storage

Sample containers will be held on site for a period not exceeding two (2) calendar days. Sample shipments to the laboratory will be by overnight courier. When practicable, the sample containers will arrive back at the laboratory within four (4) days of their initial shipment to the field.

5.4 Sample Shipment

Shipment of samples to an analytical laboratory is usually required upon completion of sample collection. Proper packaging is necessary in order to protect the sample containers, to maintain the samples at a temperature of 4 °C, and to comply with applicable transportation regulations.

In general, samples are shipped using packaging that is supplied by the analytical laboratory. The packaging normally includes a shippable insulated box such as an ice cooler and contains protective internal packaging materials such as foam sleeves. Some laboratories use proprietary sample

packaging with integral internal packaging. In either case, provisions need to be made for maintaining the temperature of the samples with the use of re freezable ice packs.

Regulations must be observed regarding the shipment of Dangerous Goods. Sample containers and certain field equipment may be defined as Dangerous Goods such that special requirements must be followed for their shipment. Air shipment of Dangerous Goods is regulated by the International Air Transport Association (IATA) as described in “Dangerous Goods Regulations” (IATA, current year). IATA Regulations are updated annually. Shipment by ground is regulated by the U.S. Department of Transportation (DOT; 49 CFR). Furthermore, individual shippers (e.g., Federal Express) or other countries (international shipments) may have additional requirements for dangerous goods shipment.

Environmental samples, (e.g., groundwater, surface water, or soil samples) containing relatively low concentrations of contaminants, (regulated under 40 CFR) are currently exempt from Hazardous Goods regulations. 40 CFR 261.40(d) states, “A sample of solid waste or a sample of water, soil, or air which is collected for the sole purpose of testing to determine its characteristics or composition is not subject to this Part or Parts 262 through 267 or Part 124 of this chapter or to the notification requirements of Section 3010 of RCRA”. Sample containers must be properly packed such that inadvertent spillage does not occur during shipment.

Environmental samples which are known or suspected to be toxic, corrosive, flammable, or those which emit a noxious odor or create an anesthetic annoyance or discomfort to passengers and/or flight crews when shipped by air, must be packed, labeled, and shipped in accordance with current IATA regulations. Refer to “Dangerous Good Regulations” (current year), Section 3 Classification.

Specific regulations exist (Shipment in Excepted Quantities) for the shipment of many reagents that are commonly used as preservatives and decontamination agents. Consequently, the shipment to the field site of “empty” sample containers containing small quantities of preservatives must be conducted in accordance with the regulations. The most significant limitations for the shipment of preservatives (IATA, current year) involve those for nitric acid in which only small quantities (<0.5L) of low concentration (<20 percent) nitric acid can be shipped in a given sample shipment.

5.5 Chain-of-Custody

Chain-of-custody procedures are designed to trace the sample from the time that it is collected until it, or its derived data, are used. Samples would be considered to be "in custody" under the following conditions:

- It is in personal possession.
- It is in personal view after being in personal possession.
- It was in personal possession when it was properly secured.
- It is in a designated secure area.

A chain-of-custody form (to be supplied by the specific laboratory providing service) is to be initiated at the time that the sample containers leave the site at which they are prepared, usually that of the analytical laboratory supplying the containers. It is important that the field personnel completely fill out the applicable sections of the form. The chain of custody forms will be placed in shipping containers, protected from moisture using plastic bags (e.g., Ziploc®) and will accompany the containers during shipment to the laboratory. The field personnel collecting the samples will be responsible for the custody of the samples until transportation to the laboratory. Sample transfer requires the individuals relinquishing and receiving the samples to sign, date, and note the time of transfer on the chain-of-custody forms. The chain-of-custody is considered to be complete after it

has been received and signed in by the analytical laboratory. A copy of the chain-of-custody record will be maintained by the field personnel along with the other field records.

Common carriers (i.e., Federal Express) are not expected to sign the chain-of-custody form. However, the bill of lading or airbill becomes part of the chain-of-custody record when a common carrier is used to transport the samples.

Section 6

Analytical Laboratory QA/QC

The analytical laboratory shall have systems and procedures to ensure and document that the data provided meets the requirements for precision, accuracy, representativeness, completeness, and comparability.

The selected analytical laboratories must be certified under the New York State Department of Health's (NYSDOH) Environmental Laboratory Approval Program (ELAP) to provide Analytical Services Protocol/Contract Laboratory Program (ASP/CLP) deliverables.

6.1 Quality Assurance Management Plan

The laboratory shall submit a current, controlled, and signed copy of the Quality Assurance Management Plan. The Plan shall be in general accordance with the requirements set forth in the draft National Environmental Laboratory Accreditation Program guidelines (Federal Register, December 2, 1994). These include:

All laboratories shall prepare and have available for review a written description of the laboratory's quality assurance activities, i.e., a QA plan. The QA plan must be an independent document that may incorporate by reference, already available standard operating procedures (SOPs) or other material, e.g., methods, guidance documents, etc., that are approved by the laboratory management. Analysts in the laboratory should either have copies of the document or easy access to the document. The items listed below constitute essential requirements of a Quality System. All laboratories should be encouraged to add any additional items thought to improve the analytical data. The following items shall be included:

- General QC procedures
- Performance evaluation samples
- Staff
- Equipment
- Test methods and SOPs
- Physical facilities
- Sample acceptance policy and sample receipt
- Sample tracking
- Record keeping, data review and reporting
- Corrective action policy and procedures
- Definition of terms
- Bibliography

Substantive changes, modifications, or revisions to the document shall be provided within 15 days of implementation.

6.2 Standard Operating Procedures

The laboratory shall maintain for all procedures written, practical, operating procedures. The laboratory's Quality Assurance Manager shall maintain the SOPs and a current copy must be available at the location where the analysis is performed.

The laboratory SOP must provide directions for the step-by-step execution of all analyses and tasks performed by the laboratory. The SOP must reference the source of the procedure (US EPA Method, ASTM, Standard Methods, etc.). The SOP must:

- Be uniquely identified as to version or revision.
- Be consistent with the instrument manufacturer specifications and instructions
- Be available for auditing purposes
- Be reviewed and updated to reflect the current practices and facility requirements
- Be archived for future reference in usability reviews and evidentiary situations
- Be subject to procedures which prevent the use of outdated versions.

6.3 Quality Assurance Measurements

The laboratory must perform all applicable quality assurance measurements indicated in the cited procedure. At a minimum, each sample preparation and analysis batch must include a method blank, a blank spike (or laboratory control standard), a matrix spike, and a duplicate (or matrix spike duplicate for organic analyses). The method blank and LCS results shall be reported in the same units as the client samples. A batch will be defined as no more than twenty samples (excluding QC samples) of a similar matrix, prepared and/or analyzed together.

Precision and Accuracy

Precision measures the reproducibility of measurements. It is strictly defined as the degree of mutual agreement among independent measurements as the result of repeated application of the same process under similar conditions. Total precision is the measurement of the variability associated with the entire sampling process. It is determined by analysis of duplicate or replicate field samples and measures variability introduced by both the laboratory and field operations. Duplicate samples and matrix duplicate spiked samples are analyzed where applicable, to assess field and analytical precision, and the precision measurement is determined using the relative percent difference (RPD) between the duplicate results.

Accuracy is a statistical measurement of correctness and includes components of random error (variability due to imprecision) and systemic error. It therefore reflects the total error associated with the measurement. Analytical accuracy is measured by comparing the percent recovery of analytes spiked into a Laboratory Control Sample (LCS), also known as a blank spike. For some organic compounds, surrogate recoveries can also be used to assess accuracy and method performance for each sample analyzed.

Accuracy of matrix spike recoveries is used to evaluate matrix effects in individual samples for a specific site. Matrix spike data is not used as the primary accuracy determination for laboratory QC purposes. Specific methods do have very wide "recommended" limits for controlling laboratory data.

Statistical Determination of Precision and Accuracy

Accuracy is evaluated by analyzing matrix spike data.

For measurements where matrix spikes are used, the percent recovery will be calculated as follows:



$$\%R = 100\% \times \frac{S-U}{C_{sa}}$$

Where: %R = percent recovery

S = measured concentration in spiked aliquot

U = measured concentration in unspiked aliquot

C_{sa} = actual concentration of spike added.

When a standard reference material (SRM) is used:

$$\%R = 100\% \times \frac{C_m}{C_{srm}}$$

Where: %R = percent recovery

C_m = measured concentration of SRM

C_{srm} = actual concentration of SRM

If calculated from duplicate measurements, relative percent difference (RPD) is the normal measure of precision as defined by the following equation:

$$RPD = \frac{(C_1 - C_2) \times 100\%}{\frac{(C_1 + C_2)}{2}}$$

Where: RPD = relative percent difference

C₁ = larger of the two observed values

C₂ = smaller of the two observed values

If calculated from three or more replicates, the relative standard deviation (RSD) will be used rather than RPD in accordance with the following equation:

$$RSD = (s / \bar{y}) \times 100\%$$

Where: RSD = relative standard deviation

s = standard deviation

\bar{y} = mean of replicate analyses

Standard deviation is defined as follows:

$$s = \sqrt{\frac{\sum_{i=1}^n (y_i - \bar{y})^2}{n-1}}$$

Where: s = standard deviation

y_i = measured value of the *i*th replicate

\bar{y} = mean of replicate measurements

n = number of replicates

The method detection limit is the laboratory established smallest amount of analyte that can be measured and reported with 99% confidence that the concentration is greater than zero.

MDL is defined as follows for all measurements:

$$\text{MDL} = t_{(n-1, 1-\alpha = 0.99)} (S)$$

Where: MDL = method detection limit

S = standard deviation of the replicate analyses

$t_{(n-1, 1-\alpha = 0.99)}$ = student's t-value for a one-sided 99 percent confidence level and a standard deviation estimate with n-1 degrees of freedom

The precision and accuracy of each measured parameter shall be within the guidelines set forth in the published method. LCS recovery acceptance criteria shall be based on control charts and must include the last twenty (20) measurements. In the absence of 20 measurements, the default acceptance criteria may be no greater than 75-125%. Matrix spike and surrogate recovery criteria must be established in accordance with the published method.

Corrective action for LCS, surrogate, and matrix spike failures must be specified in the Laboratory Quality Assurance Manual or in the Laboratory SOP for the given method. Discussion of the application of the corrective action shall be provided in the analysis case narrative.

Representativeness

Samples collected in the field shall be representative of the conditions that are being measured. The lab will take steps to ensure that subsamples of the samples submitted are representative of the container as a whole.

Comparability

All measurements made by the laboratory must be comparable to applicable reference standards. The lab must participate in interlaboratory comparisons as necessary to maintain the state certifications. The lab must provide copies of results of performance in interlaboratory programs upon request.

Completeness

Completeness is defined as the number of analyses considered to be valid compared to the number of analyses that were considered necessary for accomplishing the task. Typically, studies are designed with extra sampling so that the loss of a few samples (perhaps 10 percent) would still leave enough data to achieve the desired objectives. For the purpose of estimating completeness, the total number of analyses required for accomplishing the objectives requiring analytical laboratory data is 90 percent of the non-QC samples submitted for analysis.

All samples submitted to the lab and all analyses requested will be intended to fulfill project requirements. Results submitted which are not in compliance with method requirements or quality assurance measurements may be rejected.

6.4 Sample Management

Samples shall be checked upon receipt for thermal preservation (if applicable). The results of the check shall be recorded on the chain-of-custody submitted with the samples. Chemical preservation (e.g., appropriate pH) shall be checked upon receipt or prior to sample preparation/analyses. The results of such checks shall be recorded. Data from any samples that do not meet the criteria must be discussed in the report case narrative.

The samples shall be properly preserved and stored in approved containers specified by the laboratory quality assurance program and the applicable methods. Where samples must be split in the laboratory, the laboratory will perform the required tasks in a manner that insures that all subsamples are representative of the original sample. Samples shall be stored in a secure area.

The laboratory shall assign a unique identification (ID) code to each sample received in the laboratory. The laboratory shall design a system to unequivocally identify all samples, subsamples and subsequent extracts and/or digestates so that each aliquot is uniquely identified. This laboratory code shall maintain an unequivocal link with the unique field ID assigned each container. The laboratory ID number shall be placed on the sample container as a durable label. The laboratory ID number shall be entered into the laboratory records and shall be the link that associates the sample with related laboratory activities (i.e., sample preparation, calibration, etc.).

6.5 Laboratory Records

The laboratory shall implement protocols that will produce unequivocal, accurate records which document all laboratory activities associated with sample receipt, preparation, analysis, review and reporting. These records will be held a minimum of seven (7) years.

The activities documented shall include but are not limited to:

- Sample preservation including appropriate sample container and compliance with holding time;
- Sample identification, receipt, acceptance or rejection and log-in;
- Sample storage and tracking (includes shipping receipts, transmittal forms, and internal routing and assignment records);
- Sample preparation (includes cleanup and separation protocols, ID #s, volumes, weights, instrument printouts, meter readings, calculations, reagents, etc.);
- Sample analysis;
- Standard and reagent origin, receipt, preparation, and use;
- Equipment receipt, use, specification, operating conditions and preventative maintenance;
- Calibration criteria, frequency and acceptance criteria;
- Data and statistical calculations, review, confirmation, interpretation, assessment and reporting conventions;
- Method performance criteria including expected quality control requirements;
- Quality control protocols and assessment;
- Electronic data security, software documentation and verification, software and hardware audits, backups, and records of any changes to automated data entries;
- All automated sample handling systems;
- Records storage and retention; and
- Sample disposal including the date of sample or subsample disposal and name of the responsible person.

In addition to documenting all the above-mentioned activities, the following shall be retained:

- All original raw data, whether hard copy or electronic, for calibrations, samples and quality control measures, including analysts work sheets and data output records (chromatograms, strip charts, and other instrument response readout records);
- Copies of final reports;
- Archived standard operating procedures;
- Correspondence relating to laboratory activities for a specific project;
- All corrective action reports, audits and audit responses;
- Performance evaluation results and raw data; and
- Data review and cross checking.

6.6 Laboratory Reporting

Laboratory analytical reports shall consist of three deliverables:

- Summary Data Report
- Raw Data Validation Package
- Electronic Data Deliverable (EDD)

The Summary Data report will consist of the following information:

- Cover letter - a statement signed by both the responsible corporate individual and the Project Manager indicating that the report meets the technical specifications and applicable requirements of the contract.
- Case narrative - A brief statement of the condition of sample receipt, compliance with holding times, a discussion of conditions encountered, organized by analytical procedures performed, which will affect the interpretation of results. If any quality assurance measurements did not meet the specifications of the procedure, the narrative will indicate why the data is reportable.
- Cross reference of Sample Identification with laboratory identification.
- Sample Results - The results of the analysis shall include the sample preparation and analytical methods, dates of sample preparation and analysis, method detection limit or reporting limit, concentration of analyte, units of concentration, sample matrix.
- Blank results.
- Blank spike or Laboratory Control Standard results. (Analyte, amount spiked, amount recovered, percent recovery, acceptance criteria.)
- Surrogate analysis results.
- Matrix spike/duplicate matrix spike results.

The Raw Data Validation Package report will consist of the following information (as applicable):

- Initial calibration data (including raw data, chromatograms, instrument response data, standard preparation logs, standard source records)
- Instrument performance checks (continuing calibration verification, blank verification, etc.)
- Internal standard measurements.
- Quantitation reports.
- Mass spectra for each reported analyte.
- Copies of sample preparation worksheets, bench worksheets, run logs, cleanup procedure checks (GPS, flourisil, etc.)



- Standard addition results, serial dilution results.
- Applicable Method Detection Limit (MDL) study results and dates of MDL studies.

Electronic Data Deliverable (EDD) will consist of the following information in the following format (as applicable):

Content of Electronic Deliverables

Field Name	Description
SAMPLE_ID	Brown and Caldwell sample identification, as shown on COC
LAB_ID	Laboratory Sample Identification
REPORT_ID	Numerical identifier of hard copy report
ANALYTE	Analyte name
ANALYTE_ID	Chemical Abstract Service number, for non-specific analyte names (petroleum hydrocarbons, etc.), a valid value will be supplied.
PREP_CODE	Method of sample preparation
ANAL_CODE	Method of sample analysis
RESULT	Reported result or reporting limit if result is non-detect
ERROR	For radiochemical analysis only
UNITS	Result units
RESULT_TYPE	Identifies sample or blank
PREP_BATCH	Unique preparation batch identifier
ANAL_BATCH	Unique analysis batch identifier
DILUTION_FACTOR	Factor required to bring sample concentration into calibration range
QUALIFIER	CLP defined result flag
RET_TIME	For GC/MS Tentatively Identified Compounds only
SAMPLE_DATE	Date sample collected from chain-of-custody.
PREP_DATE	Date sample prepared or extracted.
PREP_TIME	Time sample prepared or extracted (24 hour clock HH:MM)
ANAL_DATE	Date sample analyzed
ANAL_TIME	Time sample analyzed (24 hour clock HH:MM)
REPORT_LIMIT	Detection limit of analysis, corrected for moisture, dilution, etc.
REPORT_LIMIT_UNITS	Units for detection limit.



Section 7

Data Documentation and Management

7.1 Field Notebook

A field note book will be dedicated to the Ardsley LLC Site SMP field project. All note books and any original forms will become part of the permanent project file. The following daily information will be recorded in the field notebook:

- Date;
- Weather conditions;
- Personnel;
- All site visitors;
- Chronological, general description of all field activities that day;
- Records of all field measurements;
- Descriptions of any modifications to the SMP;
- Record of equipment calibration;
- Sample collection data.

Section 8

Field Instrumentation

All field analytical instrumentation will be calibrated and maintained per the following chart:

Field Analytical Instrument Maintenance and Calibration Protocols

Equipment	Calibration	Frequency
pH meter	Calibrate with two pH buffer solutions	Every 10 samples
Sp. Conductance/Salinity	Calibrate with one calibration solution	Before and after use.
Dissolved oxygen meter	Calibration according to manufacturer's recommendations with ambient air	At the beginning of each day and every two hours
Temperature	Check against a mercury thermometer	Start and end of each day
Conductivity	Calibrate with one calibration solution	Start, middle, and end of each day
Rechargeable equipment batteries	Charge	After use as required
Sampling Accessories (tubing, submersible pump)	Periodic maintenance performed and recorded in equipment log	As required
Photoionization Detector (PID)	Calibrate per manufacturer's specification with appropriate gas.	Start of each day being used.
Oil-Water Interface Probe	Clean with soap and water and rinse with clean water to remove any product buildup.	Beginning of each day or whenever buildup occurs.

Section 9

Data Usability Summary Report (DUSR)

A Data Usability Summary Report (DUSR) will be prepared by a qualified data validator for each laboratory data package other than data intended solely for the purpose of waste characterization for off-site disposal at a permitted disposal facility. The DUSR will be prepared in accordance with the guidance contained in Appendix 2B of DER-10. The analytical data will be validated according to the protocols and quality control (QC) requirements of the analytical methods employed by the laboratory, the relevant portions of USEPA Region II Data Review SOPs and the reviewer's professional judgment. The DUSR will present the results of the data validation, including a summary assessment of laboratory data packages, sample preservation and chain-of-custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method

APPENDIX H – HEALTH AND SAFETY PLAN

Health and Safety Plan for Remedial Activities

Ardsley, LLC (Former Akzo Nobel Pilot Plant Site)
1 Lawrence Street
Ardsley, New York 10502

February 2024

BC Project Number: 153292/159856

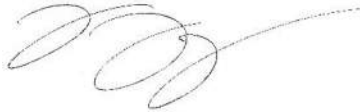


Prepared by:



300 Great Oaks Blvd., Suite 300-070
Albany, NY 12203

Approval Page

This Health and Safety Plan (HASP) has been prepared and reviewed by the following Brown and Caldwell (BC) personnel for use at: **Ardasley, LLC/Former Akzo Nobel Pilot Plan Site**

	Name	Signature	Title	Date
Prepared By:	Brian Taylor, PG		Project Manager	2/15/2024
Reviewed By:	Max Maroney		Site Safety Officer	2/15/2024
Approved By:	Sarah Everman, CSP		Safety Manager	2/14/2024
Effective Dates:	February 15, 2024	through	February 1, 2025	

Limitations: *This is a Project-/Site-Specific Health and Safety Plan for exclusive use of Brown and Caldwell (BC). This document shall not be copied or used without the express written consent of a BC Safety Manager (SM). A copy of this document may be provided to subcontractors in an effort to help them identify expected conditions at the site and general site hazards; however, the subcontractor shall remain responsible for identifying and evaluating hazards at the site as they pertain to their activities and for taking appropriate precautions. Subcontractor personnel are expected to comply fully with subcontractor's own HASP and to observe the minimum safety guidelines applicable to their activities that may be identified in BC's HASP. Failure to do so may result in the removal of the subcontractor or any of the subcontractor's workers from the job site.*



Revision/Modification Log

Revision No.	Revision Date	Section & Page	Editor	Approver/Date
0	April 2019	New Project	B. Taylor	S. Everman (4/9/19)
1	April 2020	Annual Update/ COVID-19 Addendum	B. Taylor	S. Everman (4/13/20)
2	August 2021	Annual Update/Inclusion of RA	B. Taylor	S. Everman (8/6/2021)
3	September 2022	Annual Update	B. Taylor	S. Everman (9/9/2022)
4	February 2024	Annual Update	B. Taylor	S. Everman (2/14/2024)

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Critical Project Information

Site/Project Information	
Site Location	1 Lawrence Street Ardsey, New York 10502
Client/Site Contact Daniel Dunn	Office: (314) 835-2814 Cell: (309) 370-2959
BC Project Manager (PM) Brian Taylor	Office: (518) 560-5907 Cell: (845) 901-4229

Primary Known Compound(s) of Concern:

- Dieldrin
- Tetrachloroethene
- Lead
- Polychlorinated Biphenyls
- Carbon Disulfide

Personal Protective Equipment (PPE) Summary		
Task/Activity	Required PPE	Required Respiratory Protection
On-site (minimum)	Work shirt and long pants, ASTM-approved steel/safety-toed boots, ANSI-approved safety glasses, and ANSI-approved (Class 2 or 3) high visibility vest or outerwear	None (Level D)
If working within 6-feet of water's edge that is 3-feet deep or more	On-site minimum + USCG-approved Personal Flotation Device (PFD) + Buddy System	None (Level D)
Accessing Sanitary Sewer Manholes	On-site minimum + sturdy work gloves + appropriate tooling for opening/removing covers.	None (Level D); refer to Section 5 for air monitoring and stop work guidance
Observation of concrete/asphalt demolition by 3 rd party contractor	On-site minimum + hearing protection when equipment operating + ANSI-approved hard-hat + Sturdy work gloves.	None (Level D); refer to Section 5 for air monitoring and stop work guidance
Observation of soil cover placement by 3 rd party contractor	On-site minimum + hearing protection when equipment operating + ANSI-approved hard-hat + Sturdy work gloves.	None (Level D)



Personal Protective Equipment (PPE) Summary		
Task/Activity	Required PPE	Required Respiratory Protection
Pre-ISCO Groundwater Sampling	On-site Minimum + Nitrile Gloves + sturdy work glove when hand abrasion/puncture a potential.	None (Level D); Potential for upgrade to Level C with donning a full-face air purifying respirator with OV or OV/P100 combination cartridge, based on air monitoring
Post-ISCO Groundwater Sampling (within 1 year of event and/or until evident of product no longer observed within wells, whichever is longer).	On-site Minimum + Chemical splash goggles - Long-sleeve shirt + double Nitrile Gloves with outer layer 11-inch minimum length (to elbow) + sturdy work glove when hand abrasion/puncture a potential	None (Level D); Potential for upgrade to Level C with donning a full-face air purifying respirator with OV or OV/P100 combination cartridge, based on air monitoring
Observation of Well Abandonment by 3 rd party contractor	On-site Minimum + ANSI-approved Hard-hat + Hearing Protection (when equipment operating) + Sturdy work gloves + nitrile gloves if potential contact with impacted media. Subcontractor responsible for identifying and donning any additional PPE applicable for their specific activities.	None (Level D); refer to Section 5 for air monitoring and stop work guidance .
Observation of Remedial Activities (ISCO Soil Mixing, Site Restoration, etc).	On-site Minimum + ANSI-approved Hardhat + Hearing Protection (when equipment operating) + Sturdy Work Gloves + Nitrile Gloves is collecting samples or contacting potentially impacted media + boot covers or deconable boot is walking on potentially impacted soils. BC employees will remain at least 25-feet outside of any ISCO product mixing and injection areas. If personnel need to access this area, then should contact the Safety Manager to discuss PPE upgrade requirements.	None (Level D); Potential for upgrade to Level C with donning a full-face air purifying respirator with OV or OV/P100 combination cartridge,
IDW/Drum handling	On-site Minimum +Sturdy work gloves	None (Level D);

NOTE: Though not anticipated, if NAPL is encountered during scope of work, field personnel are expected to pause work and contact SM to review potentially upgrades to PPE and respiratory protection.

3 rd Party CONTRACTORS – Under Contract Direct to Client		
Company and Primary Company Contact	Contact Information	Site Tasks/Scope
Driller: Pennington Environmental (AJ Benjamin)	Office: (609) 878-4098	Driller; monitoring well installation and development

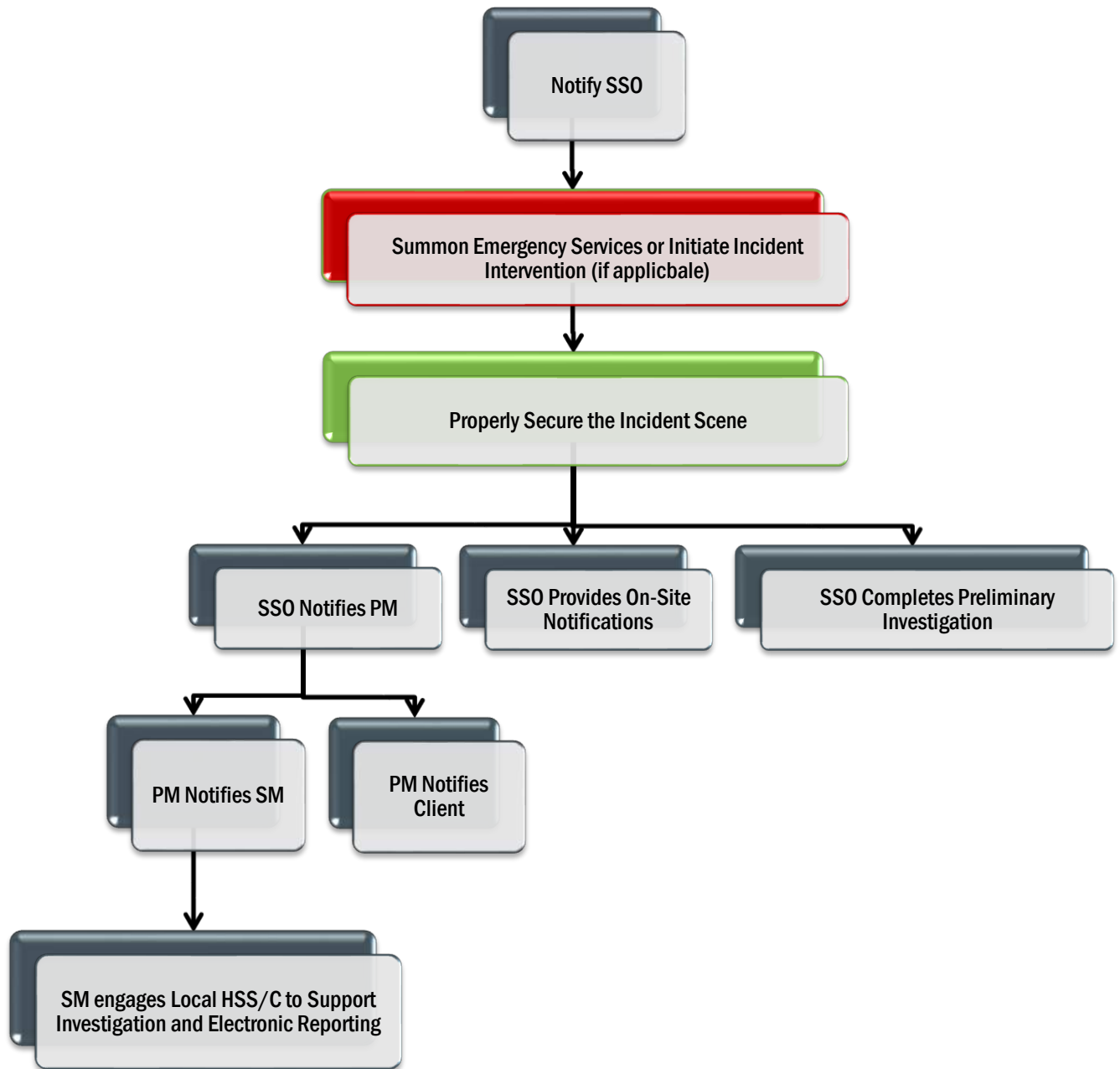


SEE SECTION 10 FOR SITE EMERGENCY CONTINGENCY PROCEDURES*Do not endanger your own life. Survey the situation before taking any action.*

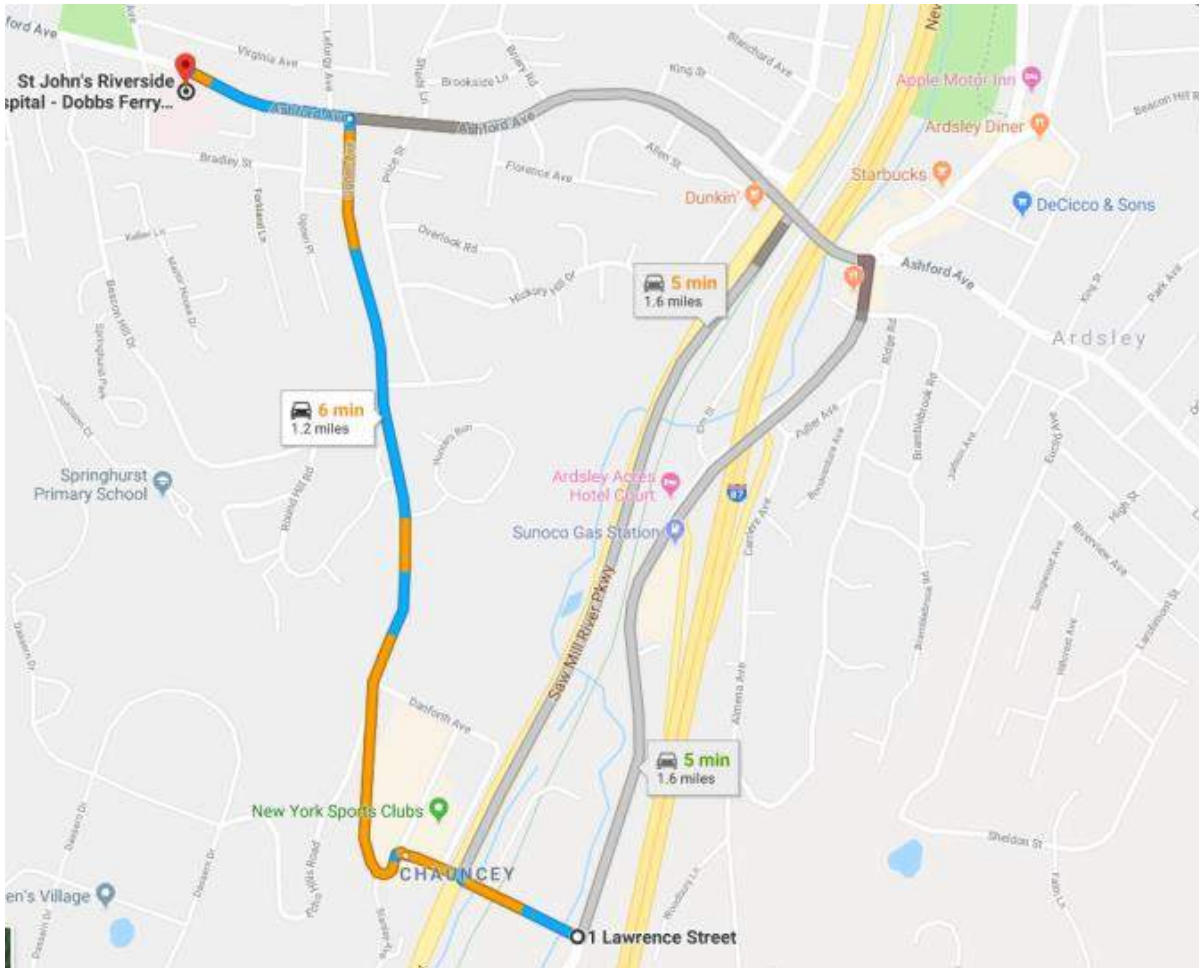
EMERGENCY PHONE NUMBERS	
Emergency Services (Ambulance, Fire, Police)	911
Poison Control	(800) 876-4766 or (800) 222-1222
Incident Intervention (WorkCare)	(888) 449-7787
Hospital Name	St. John's Riverside Hospital Dobbs Ferry Pavilion
Hospital Address	128 Ashford Ave Dobbs Ferry, Greenburgh, NY 10522
Hospital Phone Number	(914) 693-0700
BC Safety Manager (SM; Sarah Everman, CSP)	Office: 615-250-1263 Cell:) 615-879-9905
BC Site Safety Officer (SSO; Max Maroney)	Office: (201) 574-4745 Cell: (908) 763-1531
BC Electrical Safety Officer (ESO; Eric Campbell)	Office: (206) 749-2223 Cell: (480) 252-2095
BC Corporate Risk Management: Property Loss: Yolanda Harden Injury: Casey Konrai	Office: (925) 210-2494 Office: (925) 210-2228



EMERGENCY NOTIFICATION/INVESTIGATION FLOW-CHART



Hospital Map and Directions



HOSPITAL DIRECTIONS:

1. Head northwest on Lawrence Street toward S County Trailway (0.2 miles)
2. At the traffic circle take the 2nd exit onto Ogden Avenue (0.8 miles)
3. Turn Left onto Ashford Ave (0.2 miles)
4. Hospital on left

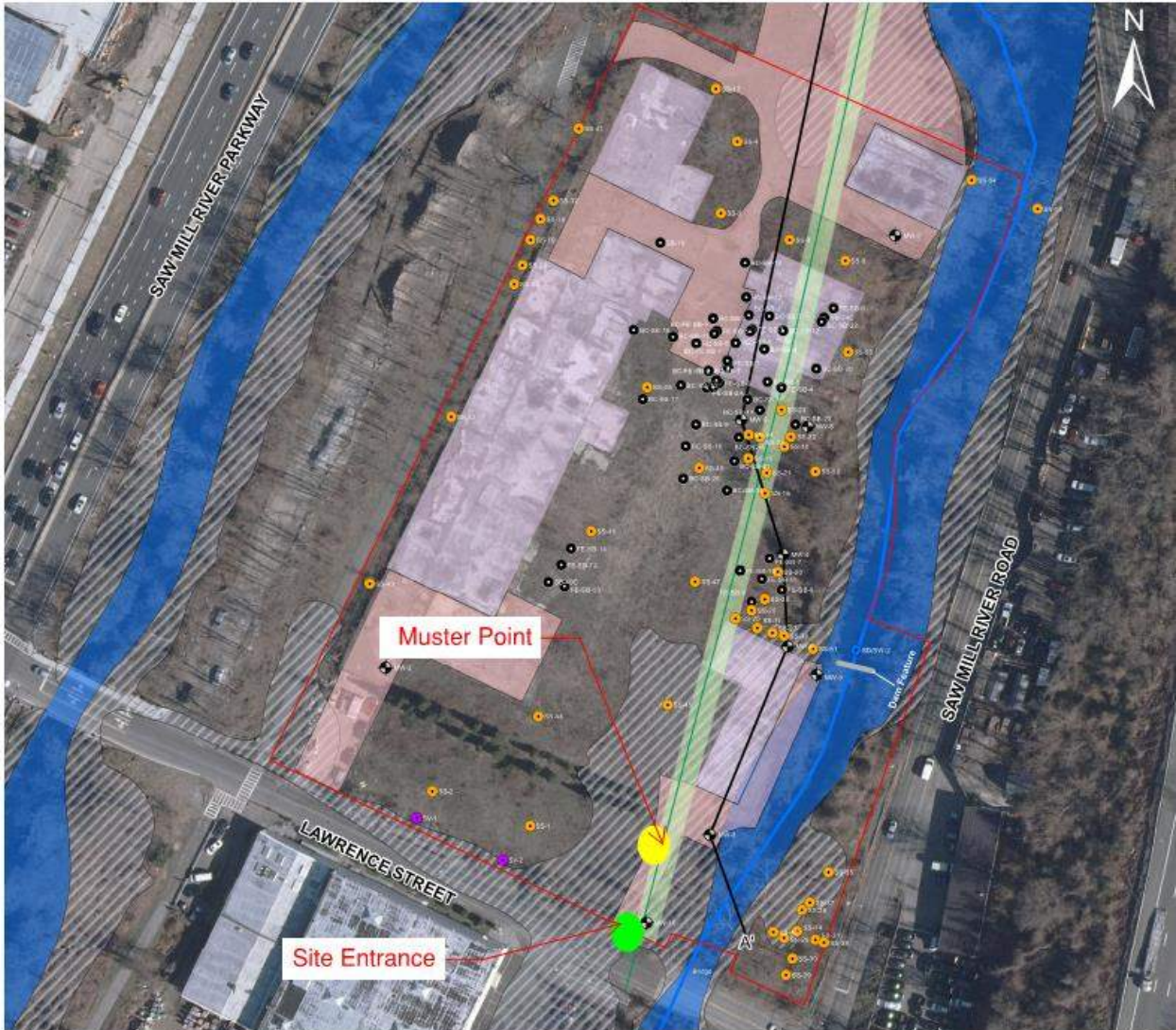
HOSPITAL INFORMATION:

St. John's Riverside Hospital
Dobbs Ferry Pavilion
128 Ashford Ave
Dobbs Ferry, Greenburgh, NY 10522

Phone: (914) 693-0700



Site Emergency Map



EMERGENCY FIRST AID PROCEDURES

THE RESPONDER SHOULD HAVE APPROPRIATE TRAINING TO ADMINISTER FIRST AID OR CPR.

1. Survey the situation. Do not endanger your own life. **DO NOT ENTER A CONFINED SPACE TO RESCUE SOMEONE WHO HAS BEEN OVERCOME. FOLLOW PROTOCOLS INCLUDING THAT A STANDBY PERSON IS PRESENT.** IF APPLICABLE, REVIEW SAFETY DATA SHEETS (SDSs) TO EVALUATE RESPONSE ACTIONS FOR CHEMICAL EXPOSURES.
2. Call 911 (if available) or the fire department **IMMEDIATELY**. Explain the physical injury, chemical exposure, fire, or release.
3. Decontaminate the victim if it can be done without delaying life-saving procedures or causing further injury to the victim.
4. If the victim's condition appears to be non-critical, but seems to be more severe than minor cuts, he/she should be transported to the nearest hospital by the SSO or designated personnel: let the doctor assume the responsibility for determining the severity and extent of the injury. If the condition is obviously serious, contact emergency medical services (EMS) for transport or appropriate actions.

Complete the Preliminary Incident Investigation Form included as Appendix E of this HASP and submit to SM for review within 24-hour of incident occurrence. Final Incident Report within the Electronic Incident Reporting System must be completed within 72-hour of incident occurrence.

STOP BLEEDING AND CPR GUIDELINES	
To Stop Bleeding	CPR
<ol style="list-style-type: none"> 1. Give medical statement indicating that you are trained in First Aid. 2. Assure: airway, breathing and circulation. 3. Use DIRECT PRESSURE over the wound with clean dressing or your hand (use non-permeable gloves). Direct pressure will control most bleeding. 4. Bleeding from an artery or several injury sites may require DIRECT PRESSURE on a PRESSURE POINT. Use pressure on pressure points for 30 to 60 seconds to help control severe bleeding. 5. Continue primary care and seek medical aid as needed. 	<ol style="list-style-type: none"> 1. Give medical statement indicating that you are trained in CPR. 2. Check for responsiveness: Tap shoulders and shout, "Are you OK?" If unresponsive and not breathing: 3. Send someone to call 911 and to obtain an AED and first aid kit (or, if you are alone, complete these actions yourself). It is very important to call for emergency assistance prior to initiating CPR. 4. Open the airway with the person lying on his or her back, tilt head back slightly to lift chin. Check for breathing for no more than 10 seconds. If there is no breathing: 5. Immediately begin CPR, starting with compressions: <ul style="list-style-type: none"> • COMPRESSIONS: <ul style="list-style-type: none"> - at least 2 inches deep - rate of 100 to 120 compressions per minute • RESCUE BREATHS: <ul style="list-style-type: none"> - Open airway: tilt head past neutral position and lift chin. - Pinch nose and form seal over mouth. 6. Continue CPR steps performing compressions and rescue breaths until breathing resumes or emergency services arrive. 7. When AED is available, use it in accordance with the AED instructions. 8. If breathing resumes, maintain an open airway and monitor for any changes in condition.



Section 1

Introduction

It is **Brown and Caldwell's (BC's)** goal to manage projects in a manner that controls the risks associated with recognized workplace hazards and prevent injury or illness to BC project personnel, subcontractors, client personnel and the public, as well as preventing damage to property and/or the environment.

The philosophy and objectives to achieve this goal are:

- The health and safety (H&S) of project personnel is FIRST priority.
- Successful project performance can best be achieved if sound H&S practices are an integral part of daily project activities.
- Sound project H&S practices are responsibilities that must be shared equally, without exception, by all personnel working on the project.
- Management and supervisors, including subcontractors, are accountable for the H&S of the personnel for whom they are responsible.
- Each person involved with the project is expected to use common sense and necessary safety precautions to conduct their daily activities in a manner consistent with this policy.

This Health and Safety Plan (HASP) has been developed for use during **Remedial and Post-Remedial Monitoring Activities conducted** at the **Former Akzo Nobel Pilot Plan Site** located at **1 Lawrence Street, Ardsley, New York** ("the site"). Activities conducted under BC's direction at the site will be in compliance with applicable Occupational Safety and Health Administration (OSHA) regulations, particularly those in Title 29 of the Code of Federal Regulations, Part 1910.120 (29 CFR 1910.120), and other applicable federal, state, and local laws, regulations, and statutes.

A copy of this HASP will be kept on-site during scheduled field activities. This HASP addresses the identified hazards associated with planned field activities at the site. It presents the minimum H&S requirements for establishing and maintaining a safe working environment during work. In the event of conflicting requirements, the procedures or practices that provide the highest degree of personnel protection will be implemented. If scheduled activities change or if site conditions encountered are found to differ substantially from those anticipated, the Safety Manager (SM) and Project Manager (PM) will be informed immediately upon discovery and appropriate changes will be made to this HASP.

BC's H&S programs and procedures, including medical monitoring, respiratory protection, injury and illness prevention, hazard communication, and personal protective equipment (PPE) are documented in the BC H&S Manual. The BC H&S Manual is readily accessible to BC employees via the BC Pipeline. These H&S procedures are incorporated herein by reference and BC employees will adhere to the procedures specified in the manual.

BC's HASP has been prepared specifically for this project and is intended to address H&S issues solely with respect to the activities of BC's own employees at the site. A copy of BC's HASP may be provided to subcontractors to help them identify expected conditions at the site and general site hazards. The subcontractor shall remain responsible for identifying and evaluating hazards at the site as they pertain to their activities and for taking appropriate precautions. For example, BC's HASP does not address specific hazards associated with tasks and equipment that are particular to the subcontractor's scope of



work and site activities (e.g., operation of a drill rig, excavator, crane or other equipment). Additionally, subcontractors are not to rely on BC's HASP to identify all hazards that may be present at the site.

1.1 COVID-19

Do not come to work if you are experiencing COVID-like symptoms (see below) or if you have been in close contact with a positive COVID case or suspected COVID case within the past 14 days. Contact the COVID Response Team (covidinfo@brwncald.com) for further instructions and notify your supervisor.

Most common symptoms

- ✓ Fever with temp > 100.4°F/38 °C
- ✓ Sore throat
- ✓ Dry cough
- ✓ Fatigue or tiredness
- ✓ Congestion or runny nose
- ✓ Nausea or vomiting

Less common symptoms

- ✓ Muscle or body aches and pains (chills/shaking)
- ✓ Diarrhea
- ✓ Conjunctivitis/Eye irritation
- ✓ Headache of unknown origin
- ✓ New loss of taste or smell
- ✓ Skin rash or discoloration of toes or fingers

Serious symptoms

- ✓ Shortness of breath /difficulty breathing
- ✓ Persistent chest pain or pressure
- ✓ New confusion or loss of speech/movement
- ✓ Bluish lips or face
- ✓ Difficulty waking or inability to stay awake

Contact tracing is required when:

- When an individual (BC employee or subcontractor, vaccinated or non-vaccinated) reports any COVID-19 symptoms not explained by other diagnosis or has a confirmed COVID-19 diagnosis by rapid test or PCR test. (NOTE: If initial results are reported by rapid test and subsequently reported differently by a follow-up PCR test, the PCR results will be accepted as the final result).
- When a vaccinated or non-vaccinated individual reports a **close contact*** with an individual who has been diagnosed, is under investigation based on symptoms, or is otherwise self-quarantined for possible COVID-19 illness.

***Close contact** - Someone **sharing the same indoor airspace** (e.g., home, work trailer, office space, meeting room, airplane etc.) for a cumulative total of 15 minutes or more over a 24-hour period (for example, three individual 5-minute exposures for a total of 15 minutes) during an infected infectious period.

Contact the COVID Response Team (covidinfo@brwncald.com) to report when a suspected or confirmed close contact occurs at work.

1.2 Site Background

The Site location and history described below was previously provided in the “Remedial Investigation Work Plan for the Former Akzo Nobel Pilot Plant, 1 Lawrence Street, Ardsley, New York” (First Environment, 2017). An abridged version is presented herein with slight modifications/additions. Also provided below is a brief summary of the investigation findings to-date associated with the Site.

1.2.1 Site Location and Description

The Site is location at 1 Lawrence Street in the Town of Greenburgh (adjacent to the Village of Ardsley), Westchester County, New York. Latitude and longitude coordinate for the property are approximately 41° 00' 11.91" north latitude and 73° 51' 15.08" west longitude.

The Site consists of approximately 9.62 acres and formerly contained seven freestanding structures, which were demolished circa 2008. Except for an area of undeveloped land to the north, the property is



largely covered by impervious surfaces including asphalt parking areas, landscaped areas, and clean brick and concrete rubble, which was used to grade the Site following demolition activities.

The topography of much of the Site is generally flat. The Site is located in the Saw Mill River valley and situated between the Saw Mill River Parkway to the west and a bank of the Saw Mill River to the east. Lawrence Street borders the property to the south and undeveloped land borders the Site to the north. The Saw Mill River is a tributary of the Hudson River, and flows in a general easterly direction along the northern portion of the Site and then in a southerly direction along the Site's eastern boundary. A small water course between the Site and the Saw Mill River Parkway appears to connect with the Saw Mill River approximately 0.2 mile south of the Site. A Site Location Map is included as Figure 1 of the work plan. A Site Plan depicting Site features and existing/proposed monitoring wells is provided as Figure 2 of the work plan.

1.2.2 Site History

The property was initially developed by Stauffer Chemical Company (Stauffer) in the 1920s. Stauffer manufactured citric acid, potash, carbon disulfide and insoluble sulfur and a variety of biocides and pesticides at various times until chemical manufacturing at the facility ceased in 1984. Research and development (R&D) operations began in the 1950s and continued after cessation of the manufacturing activities.

Akzo Nobel acquired Stauffer in 1987 and initially continued Stauffer's R&D operations but eventually converted the R&D operations away from the Stauffer processes towards Akzo's products. R&D operations continued at the Site until January 2006, at which time all site operations ceased.

1.3 Scope of Work

This has been developed to cover BC support activities during remedial activities to be conducted on-site that includes both BC subcontractors as well as observation/documentation of 3rd party contractor activities. These activities include the following:

- As need surveying and other general site visits/walks.
- BC will observe a 3rd party subcontractor surveying the inverts of the sanitary sewer through on-Site manholes.
- BC will observe the demolition and subsequent removal of selected foundation slabs and paving by a 3rd party contractor.
- Where not covered by paving or building foundations, the Site will be covered with 12 inches of imported fill material. The imported cover material will be placed over a demarcation layer (i.e., orange snow fence or geotextile fabric). BC will observe this placement of Site cover material by a 3rd party contractor.
- BC will observe the abandonment by a 3rd party contractor of the existing well MW-5 following grouting in-place methodology once the monitoring well vault has been removed. Additionally, BC will observe the installation conducted by a 3rd party contractor of a replacement well for existing well MW-5 (MW-5R) to be located immediately down-gradient of the ISCO injection area. Well MW-5R will be installed as a conventional 2" PVC monitoring well.
- BC will conduct a Baseline Groundwater Sampling event that will consist of 1 round of pre-ISCO (baseline) groundwater sampling will be conducted for comparison with post-ISCO sampling data to evaluate treatment performance. Samples will be collected and sent off-site for laboratory analysis.



- BC will observe the implementation of ISCO soil mixing by a 3rd party contractor that will be utilized to treat PCE concentrations in soil near the former solvent shed source area (hereafter “treatment area”). Contractor activities include mobilization, site preparation, soil mixing, site restoration, and waste management. A copy of respective product SDS will be maintained on-site by the respective contractor and reviewed prior to BC supporting specific activities. During product mixing and injection activities, BC personnel will remain at least 25-feet away from respective zone. If closer access is needed, the SSO will contact the project’s Safety Manager to discuss PPE upgrade requirements to enter this exclusion zone.
- BC will conduct Post-ISCO Groundwater Sampling events (multiple) to evaluate remedial performance. Samples will be sent off-site for laboratory analysis.
- BC will conduct as-need and routine Site Inspections.



Section 2

Roles and Responsibilities

Brian Taylor is the BC Project Manager (PM) and **Sarah Everman** is the BC Safety Manager (SM). **Max Maroney** has been designated as the BC Site Safety Officer (SSO) for this project. Other critical project team members are identified under the Critical Information Section of this HASP with contact information.

2.1 THINK SHARP: Pause, Think, Go

To prevent mishaps, BC personnel and subcontractors are expected to analyze the risks associated with his/her role and associated activities at the site. A logic tool referenced as **THINK SHARP: Pause, Think, Go** should be utilized to aid project personnel through the risk management process. **THINK SHARP: Pause, Think, Go** requires each person to thoroughly and thoughtfully perform the following before starting each task:

- **PAUSE:**
 - What can go wrong?
 - What are lessons learned from previously performing this task?
 - Do the personnel performing this task have experience?
 - What site conditions or periphery activities could affect safety while performing this task?
- **THINK:**
 - What precautions are needed?
 - What PPE is needed?
 - What tools are needed to perform this work safely?
 - Are the correct tools present to perform the activity (e.g., no “rigging” tools)?
- **GO:**
 - Proceed only when it is determined the task can be performed safely.

If a job cannot be done in a safe manner, it should not be undertaken. It is important for personnel involved with this project to understand that each person has the authority to call a halt to work or activities that have the potential to cause harm to persons, property, or the environment. If an unsafe condition is encountered, each person has the right, responsibility, and obligation to report it without fear of reprisal.

2.2 General Responsibilities

Members of the workforce shall be made aware of their obligation to **stop work** that they consider to be unsafe and that they have the authority, obligation, and responsibility to stop any task or operation where there are concerns or questions regarding the control of the hazards or risks associated with a task or operation that is being performed.



No work will resume until 'Stop Work' concerns or questions have been adequately addressed and associated risks have been eliminated or mitigated to acceptable levels. Instances of work being stopped for reasons of safety shall be recorded, properly investigated, and the results documented, either on the Daily Tailgate Meeting Form (Appendix D) or Incident Investigation Form (Appendix E), as appropriate.

Field Personnel are considered those personnel associated with the project, directly through BC or through another party (subcontractor, client, regulator, etc.) that has received comprehensive H&S training that meets applicable requirements of 29 CFR 1910.120. Depending on project activities, additional specialized H&S training may be required. Additional training requirements that may be required are outlined in Section 3 Hazard Analysis.

Visitors will be considered personnel that do not meet the minimum requirements to be classified as Field Personnel and shall have controlled access to the work zone (or site if controlled by BC) during active performance of this project's scope of work. It is the responsibility of the SSO to adequately define the applicable work zones (Section 10) along with monitoring and controlling access. Entry into the work zone by a Visitor shall require a H&S briefing from the SSO and donning of minimum on-site PPE by visitor. To enter the exclusion zone, all activities within the zone shall cease and the visitor will be escorted by the SSO or another designated representative.

2.3 Project Management Team

The following are the key management roles and associated responsibilities for this project.

2.3.1 BC Project Manager

The PM is responsible for evaluating hazards anticipated at the site, the scope of work along with being responsible for working with designated field staff, the SSO and the SM to prepare this HASP to address the identified hazards. The PM is also responsible for the following:

- Empowering project team members to implement **THINK SHARP** philosophy.
- Informing project participants of H&S hazards identified at the site.
- Providing a copy of and requiring that each project team field member, including subcontractors, reads or is briefed on the HASP. This shall be documented by individual signatures on the Acknowledgement Form (Appendix C).
- Checking that the BC project team is adequately trained and performing safety briefings in accordance with this HASP.
- Providing the resources necessary for maintaining a safe and healthy work environment for BC personnel.
- Communicating project safety concerns to the SM for determining corrective actions, as applicable.

2.3.2 BC Site Safety Officer

The SSO has on-site responsibility for verifying that BC team members, including subcontractors, comply with the provisions of this HASP. The SSO has the authority to monitor and correct H&S issues as noted on-site. The SSO is responsible for the following:

- Implementing and encouraging the implementation of **THINK SHARP** philosophy.
- Reporting unforeseen or unsafe conditions or work practices at the site to the PM or SM.



- Stopping operations that threaten the H&S of BC field team members, subcontractors, client personnel or members of the surrounding community.
- Monitoring the safety performance of site personnel to evaluate the effectiveness of H&S procedures.
- Performing or verifying the performance of air monitoring, as necessary, as prescribed in this HASP.
- Documenting field team compliance with this HASP by completing the appropriate BC forms contained in the appendices of this document.
- Conducting daily tailgate safety meetings and assuring that project personnel understand the requirements of this HASP (as documented by each BC field team member's signature on the Signature Pages of the Daily Tailgate Form and the HASP Acknowledgement Form).
- Limiting access to BC work areas on the site to BC field team members and authorized personnel.
- Enforcing the "buddy system" or minimum 2-person teams as appropriate for site activities.
- Performing periodic inspections to evaluate safety practices at the site.
- Identifying the location and route to a nearby medical facility with emergency services, identifying emergency contact information, and coordinating appropriate responses in the event of an emergency.

2.3.3 BC Safety Manager

The SM is responsible for final review and modification of this HASP. Modifications to this HASP that result in less protective measures than those specified may not be employed by the PM or SSO without the approval of the SM. In addition, the SM has the following responsibilities:

- Developing and coordinating the overall BC H&S program.
- Advising the PM and SSO on matters relating to H&S on this project/site.
- Recommending appropriate safeguards and procedures.
- Modifying this HASP, if necessary, and approving changes in H&S procedures at the site.

2.4 Field Personnel

BC employees and subcontractors are responsible for familiarizing themselves with H&S aspects of the project and for conducting their activities in a safe manner. This includes attending site briefings, communicating H&S observations and concerns to the SSO, maintaining current medical and training status and maintaining and using proper tools, equipment and PPE. Proper work practices are part of ensuring a safe and healthful working environment. Safe work practices are essential and it is the responsibility of BC employees and field team members to follow safe work practices when conducting scheduled activities. Safe work practices to be employed during the entire duration of fieldwork include, but are not limited to, the following:

- Implement **THINK SHARP** philosophy.
- Review safety-related information from other parties (e.g., client or contractors) as it relates to BC's activities.
- Inspect PPE before on-site use, using only intact protective clothing and related gear, and changing suits, gloves, etc. if they are damaged or beyond their useful service life.



- Set up, assemble, and check out all equipment and tools for integrity and proper function before starting work activities.
- Assist in evaluating the effectiveness of site procedures (including decontamination) for personnel, PPE, sampling equipment and containers, and heavy equipment and vehicles.
- Practice the “buddy system” as appropriate for site activities.
- Do not use faulty or suspect equipment.
- Do not use hands to wipe sweat away from face. Use a clean towel or paper towels.
- Practice contamination avoidance whenever possible.
- Do not smoke, eat, drink, or apply cosmetics while in chemically affected areas of the site or before proper decontamination.
- Wash hands, face, and arms before taking rest and lunch breaks and before leaving the site at the end of the workday.
- Check in and out with the SSO upon arrival and departure from the site.
- Perform decontamination procedures as specified in this HASP.
- Notify the SSO immediately if there is an incident that causes an injury, illness or property loss. Incidents that could have resulted in injury, illness, or property loss (close-call) will also be reported to the SSO.
- Do not approach or enter an area where a hazardous environment (e.g., oxygen deficiency, toxic or explosive) may exist without employing necessary engineering controls, proper PPE, and appropriate support personnel.
- Use respirators correctly and as required for the site; check the fit of the respirator with a negative or positive pressure test; do not wear respirator with facial hair or other conditions that prevent a face-to-face piece seal.
- Confined spaces will not be entered without appropriate evaluation, equipment, training, and support personnel.



Section 3

Hazard Analysis

Hazards at the site may include physical hazards, chemical hazards or biological hazards. Each type of hazard is briefly addressed in the following section. Hazards that are the specialty of a subcontractor (e.g., operation of a drill rig or excavator) are not addressed in this HASP. Subcontractors are responsible for identifying potential hazards associated with their activities and implementing proper controls.

It is important to note that BC personnel may be exposed to the potential hazards presented below but may not be creating them or be responsible for hazard mitigation or safe operation of equipment that is the responsibility of the client or their contractor(s).

3.1 Hazard Communication

In accordance with the Hazard Communication (HazCom) standard, Safety Data Sheets (SDSs), formerly known as material safety data sheets (MSDSs), will be maintained on-site for chemical products used by BC personnel at the site (e.g., spray paint, cement, diesel, laboratory sample kit preservatives, etc.). Most often, SDSs are incorporated as part of Appendix F of this FWSP. Note that occasionally, prior to bringing a product on-site to a client facility, a copy of the product SDS may need to be provided to obtain approval of use.

Subcontractors will be responsible for maintaining SDSs for chemical products they bring on-site. In addition, containers will be clearly labeled in English to indicate their contents with appropriate hazard warnings. Please note that labeling containers includes, but is not limited to, any waste, used PPE, and/or decontamination materials collected.

BC employees will maintaining a minimum of 25-foot buffer from 3rd party contractor ISCO soil mixing activities and have a copy of SDS readily accessible during activities.

3.2 Chemical Hazards

Exposure pathways of concern for chemical compounds that may be present at the site are: inhalation of airborne contaminants, direct skin contact with contaminated materials, and incidental ingestion of affected media. Wearing protective equipment and following decontamination procedures listed in Section 7 can minimize dermal contact and incidental ingestion. To minimize inhalation hazards, dust or vapor control measures will be implemented, where necessary, and action levels will be observed during scheduled activities. Site-specific action levels and air monitoring requirements are presented in Section 5.

Site-Specific Chemicals of Concern			
Known or Suspected Compounds	Source (soil/water/sludge, etc.)	Known Concentration Range Specify (mg/kg, mg/l)	
		Lowest	Highest
Dieldrin	Soil/Groundwater	Soil: ND	Soil: 6.47 mg/kg



Site-Specific Chemicals of Concern			
Known or Suspected Compounds	Source (soil/water/sludge, etc.)	Known Concentration Range Specify (mg/kg, mg/l)	
		Lowest	Highest
		Groundwater: ND	Groundwater: 5.26 ug/L
Tetrachloroethene	Soil/Groundwater	Soil: ND Groundwater: ND	Soil: 520 mg/kg Groundwater: 2,000 ug/L
Lead	Soil	Soil: ND	Soil: 10,200 mg/kg
Polychlorinated Biphenyls	Soil	Soil: ND	Soil: 7.1 mg/kg
Carbon Disulfide	Soil/Groundwater	Soil: ND Groundwater: ND	Soil: 1.1 mg/kg Groundwater: 2,600 ug/L
Crystalline Silica	Soil/Well Completion Materials	Unknown	Unknown

Chemical descriptions of select chemicals of concern, including health effects and exposure limits, are presented in the following paragraphs. Each chemical description includes physical and odor recognition characteristics, the health effects associated with exposure, and exposure limits expressed as an 8-hour time-weighted average (TWA). Provided are federal OSHA (OSHA) permissible exposure limits (PELs); (located in 29 CFR 1910.1000); California OSHA (Cal/OSHA) PELs (located in 8 CCR 5155); and the American Conference of Governmental Industrial Hygienists (ACGIH) threshold limit values (TLVs). For sites outside California, Cal/OSHA PELs are included as an additional reference.

3.2.1 Dieldrin

Dieldrin is a light brown crystal with a mild chemical odor. Short-term exposure to dieldrin can cause hyperirritability, headaches, dizziness, nausea, vomiting, blood in the urine, tremors, convulsions, and coma.

- The OSHA PEL is listed as 0.25 mg/m³.
- The Cal/OSHA PEL is listed as 0.25 mg/m³.
- The TLV is listed as 0.1 mg/m³.

Note: Published exposure limits designate a skin notation indicating that dermal contact can contribute to the overall exposure.

WARNING: This chemical is known to the State of California to cause cancer.

3.2.2 Tetrachloroethene (PCE)

PCE (also known as perchloroethylene) is a colorless liquid with an ether-like odor. Short-term exposure to PCE may cause headaches, nausea, drowsiness, dizziness, incoordination, unconsciousness, irritation of the eyes, nose, and throat, and flushing of the face and neck. In addition, it may cause liver damage with such findings as yellow jaundice and dark urine. Liver damage may become evident several weeks after exposure. Skin contact may create a dry, scaly, itchy dermatitis. PCE is classified by the U.S. Environmental Protection Agency as a Group B2 probable human carcinogen.

- The OSHA PEL is listed as 100 ppm with a Ceiling Limit of 200 ppm.
- The Cal/OSHA PEL is listed as 25 ppm.
- The TLV is listed as 25 ppm with a Ceiling Limit of 100 ppm.

WARNING: This chemical is known to the State of California to cause cancer.



3.2.3 Lead

Lead (inorganic) is a bluish-white, silver or gray odorless solid. Short-term exposure to lead can cause decreased appetite, insomnia, headache, muscle and joint pain, colic, and constipation. Considerable data exist on the effects of lead exposure in humans. It is a poison by ingestion and a suspected human carcinogen of the lungs and kidneys. There are data to suggest that lead is a mutagen and can cause reproductive effects. Human systemic effects by ingestion and inhalation (the two routes of absorption) include loss of appetite, anemia, malaise, insomnia, headache, irritability, muscle and joint pains, tremors, flaccid paralysis without anesthesia, hallucinations and distorted perceptions, muscle weakness, gastritis, and liver changes. Recent experimental evidence suggests that blood levels of lead below 10 µg/dl (micrograms per deciliter) can have the effect of diminishing the IQ scores of children.

- The OSHA PEL is listed as 0.05 mg/m³ and the OSHA PEL for tetraethyl lead and tetramethyl lead is listed as 0.075 mg/m³.
- The Cal/OSHA PEL for elemental lead is listed as 0.05 mg/m³ and the Cal/OSHA PEL for tetraethyl lead and tetramethyl lead is listed as 0.075 mg/m³.
- The TLV for elemental lead is listed as 0.05 mg/m³, the TLV for tetraethyl lead is 0.1 mg/m³ and the TLV for tetramethyl lead is 0.15 mg/m³.

Note: Published exposure limits designate a skin notation indicating that dermal contact (to organic forms) can contribute to the overall exposure.

WARNING: This chemical is known to the State of California to cause cancer.

WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

3.2.4 Polychlorinated Biphenyls (PCBS)

PCBs are a series of technical mixtures consisting of many isomers and compounds that vary from mobile oil liquids to white crystalline solids and hard non-crystalline resins. Technical products vary in composition, in the degree of chlorination, and possibly according to batch. Generally, they are moderately toxic by ingestion, and some are poisons by other routes. Most are suspect human carcinogens and experimental tumorigens, and exhibit experimental reproductive effects. They have two distinct actions on the body: a skin effect (chloracne) and a toxic action on the liver. The higher the chlorine content, the more toxic the PCBs tend to be.

- The OSHA PEL is listed as 0.5 mg/m³ for 54% chlorine content (as a PCB) and 1.0 mg/m³ for 42% chlorine content (as a PCB).
- The Cal/OSHA PEL is listed as 0.5 mg/m³ for 54% chlorine content (as a PCB) and 1.0 mg/m³ for 42% chlorine content (as a PCB).
- The TLV is listed as 0.5 mg/m³ for 54% chlorine content (as a PCB) and 1.0 mg/m³ for 42% chlorine content (as a PCB).

Note: Published exposure limits designate a skin notation indicating that dermal contact can contribute to the overall exposure.

WARNING: These chemicals are known to the State of California to cause cancer.

WARNING: These chemicals are known to the State of California to cause birth defects or other reproductive harm.



3.2.5 Carbon Disulfide

Inhalation of carbon disulfide reportedly causes adverse effects on human spermatogenesis. Carbon disulfide is a human poison by ingestion and possibly other routes. The main toxic effect is on the central nervous system, acting as a narcotic and anesthetic in acute poisoning and death following from respiratory failure. In chronic poisoning, the effect on the nervous system is one of central and peripheral damage, which may be permanent if the damage is severe.

- The OSHA PEL is listed as 20 ppm.
- The Cal/OSHA PEL is listed as 4 ppm.
- The TLV is listed as 1 ppm.

Note: Published exposure limits designate a skin notation indicating that dermal contact can contribute to the overall exposure.

WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

3.2.6 Crystalline Silica (as respirable dust)

Crystalline silica is a basic component of soil, sand, granite, and many other minerals and is considered moderately toxic as an acute irritating dust. Exposure to crystalline silica can occur during many different construction activities and include, but may not be limited to, abrasive blasting, drilling, grinding, cement mixing, and dust from driving on dry gravel roadways. The prolonged inhalation of dusts containing free silica may result in the development of a disabling pulmonary fibrosis known as silicosis. The action of crystalline silica on the lungs results in the production of a diffuse, nodular fibrosis in which the parenchyma and the lymphatic systems are involved. This fibrosis is, to a certain extent, progressive, and may continue to increase for several years after exposure is terminated.

- The OSHA PEL is 50 µg/m³ over an 8-hour period.
- The TLV is listed as 25 µg/m³ for respirable quartz and cristobalite.

Where there is a potential for workers to be exposed to respirable crystalline silica above 25 µg/m³ calculated as a time-weighted average (TWA) over an 8-hour period, the requirements outlined within OSHA 29 CFR 1910.1053 or 29 CFR 1926.1153, as applicable, shall be addressed as part of this HASP and/or respective subcontractor project-specific Safety Plan. As part of this requirement, subcontractors must include a written Exposure Control Plan that should address all of the following but not be limited to worker exposure assessment, engineering and work practice control methods, medical monitoring/surveillance, training and respiratory protection. It is the responsibility of subcontractors to assess their potential for respirable crystalline silica exposure for their specific tasks in accordance with the aforementioned criteria and implement as applicable for the project.

3.3 Physical Hazards

The following physical hazards, as marked below, have been identified and may be encountered during scheduled field activities:

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Driving/Vehicle Operation | <input checked="" type="checkbox"/> Work On or Near Roadways | <input checked="" type="checkbox"/> Slips, Trips and Falls |
| <input checked="" type="checkbox"/> Housekeeping | <input checked="" type="checkbox"/> Noise | <input checked="" type="checkbox"/> Materials and Equipment Handling or Lifting |
| <input checked="" type="checkbox"/> Overhead Utilities | <input checked="" type="checkbox"/> Underground Utilities | <input type="checkbox"/> Elevated Platforms/Working Surfaces |
| <input type="checkbox"/> Stairway or Ladder Use | <input checked="" type="checkbox"/> Portable Hand and Power Tools | <input checked="" type="checkbox"/> Removing/Replacing Manhole Covers |



- | | | |
|--|--|---|
| <input type="checkbox"/> Electrical Hazards | <input type="checkbox"/> Energy/System Isolation | <input type="checkbox"/> Personal Safety - Violence/Crime Prone Areas |
| <input type="checkbox"/> Arc Flash | <input checked="" type="checkbox"/> Equipment Refueling | <input type="checkbox"/> Personal Safety - Forested Areas |
| <input type="checkbox"/> Confined Spaces | <input checked="" type="checkbox"/> Excavations | <input type="checkbox"/> Personal Safety - Hunting Areas |
| <input checked="" type="checkbox"/> Heavy/Mobile Equipment | <input checked="" type="checkbox"/> Fire/Explosion | <input type="checkbox"/> Personal Safety - Shooting Ranges |
| <input checked="" type="checkbox"/> Drilling | <input checked="" type="checkbox"/> High-Pressure Hazards | <input checked="" type="checkbox"/> Preserved Laboratory Sample Kits |
| <input type="checkbox"/> ATV or UTV Use | <input checked="" type="checkbox"/> Working On or Near Water | <input checked="" type="checkbox"/> Groundwater Sampling |
| <input type="checkbox"/> Building Collapse | <input checked="" type="checkbox"/> Fatigue | <input type="checkbox"/> Working at Night |
| <input checked="" type="checkbox"/> Drum Handling | <input type="checkbox"/> Mobile Data Collection | <input type="checkbox"/> Other: |
| <input type="checkbox"/> Other: | <input type="checkbox"/> Other: | <input type="checkbox"/> Other: |

Actions to be taken to protect against the hazards identified are provided in the sections below.

3.3.1 Driving/Vehicle Operation

A lot of driving is required to get to, from and between project Sites. Safe vehicle maintenance and operation must be a priority. It requires knowledge of directions to (and conditions of) the Site in advance, careful exiting and merging into traffic, anticipating the unexpected, remaining alert to one's physical and mental condition and contacting assistance when needed.

As a BC policy and a policy for many facilities, cell phones should **not** be used while driving. Additionally, employees may **not** use electronic devices to send/receive text messages, emails, communicate with the internet, program a GPS navigation system, or other similar activities while operating a vehicle. Distracted driving should be avoided when possible. Best practice regarding cell phones and other electronics while driving is to pull over and stop at a safe location to use your cell phone.

While operating a motor vehicle on behalf of BC to/from a Site or while on-Site, personnel are also expected to comply with the following safe practices:

- Driver and all passengers **must** wear seat belts when vehicle is in motion.
- Obey all traffic laws, ordinances, traffic signals and road signs.
- Operate the vehicle in a safe manner and drive within the posted speed limit.
- Do not drive if your vision, hearing or alertness is impaired due to fatigue, illness or any other cause.
- Do not drive while under the influence of alcohol or any other drug, including prescription or over-the-counter medication that may impair the operator.
- As applicable, ensure loads are properly secured and do not exceed the vehicle manufacturer's specifications and legal limits.
- Attempt to pull-through or back-in when parking unless otherwise restricted.
- Perform a vehicle walk-around prior to pulling forward or backing out when parked for extended periods.
- Use horn to notify those nearby that vehicle is about to move forward. Note that some facilities have specific number of "honks" depending on the direction a vehicle would be moving.



- Chock parked vehicles is recommended and required for some facilities.

Report all vehicle collisions/incidents to BC's Property Loss Risk Manager and contact your SM regarding additional incident reporting requirements.

3.3.2 Housekeeping

Personnel shall maintain a clean and orderly work environment. Keep aisles and passageways clear and in good repair to provide free and safe movement of employees and material-handling equipment. Make sure that all materials stored in tiers are stacked, racked, blocked, interlocked or secured to prevent sliding, falling, collapse or overturning. Do not allow materials to accumulate to a degree that it creates a safety or fire hazard.

During construction activities, scrap and form lumber with protruding nails and other items shall be kept clear from work areas, passageways and stairs. Combustible scrap and debris shall be removed at regular intervals. Safe means must be provided to facilitate removal of debris.

Containers must be provided for collecting and separating waste, used rags and other debris. Containers used for garbage and other oily flammable or hazardous waste such as caustics, acids, harmless dusts, etc., must be separated and equipped with covers. Garbage and other waste shall be disposed of at frequent and regular intervals.

3.3.3 Overhead Utilities

If work is to be conducted near overhead electrical utilities, the owner of the overhead line will be contacted to determine the maximum voltage. Any overhead utility will be considered to be energized unless and until the person owning or operating such line verifies that the line is not energized and the line is visibly grounded at the work Site.

Workers will not perform work in close proximity to energized high-voltage lines (including scaffolding, drilling, pile driving or hoisting equipment) until danger from accidental contact with the high-voltage lines has been effectively guarded against. Equipment with articulated upright booms or masts are not permitted to operate within 10 feet of an overhead utility line (less than 50kV) while the boom is in the upright position. For transmission lines in excess of 50kV, an additional distance of 0.5 inches for every 1 kV over 50kV will be used.

For situations where a subcontractor requires access to areas near overhead utilities that are less than 10 feet from the line or if the line is greater than 50kV, a Control of Work (CoW) Permit may be required and the project SSO or SM should be consulted.

3.3.4 Heavy/Mobile Equipment

Equipment including earth-moving equipment, cranes, haul trucks, drill rigs or other heavy machinery designed to move dirt, material or equipment will be operated in compliance with the manufacturer's instructions, specifications and limitations, as well as any applicable regulations. The operator of equipment shall be appropriately training and qualified for role and is responsible for inspecting the equipment prior to use each work shift to verify that it is functioning properly and maintaining documentation of noted deficiencies and resolutions, as applicable. On active construction Sites, except where more stringent requirements may exist, all mobile equipment operations shall be in accordance with OSHA 29 CFR 1926 Subpart O.

Important: Many types of mobile equipment have large blind spots and inhibit the operator's ability to clearly see all around the equipment as well as a huge swing radius. Because of this, personnel must be aware of the location and operations of mobile equipment at all times and never assume that the

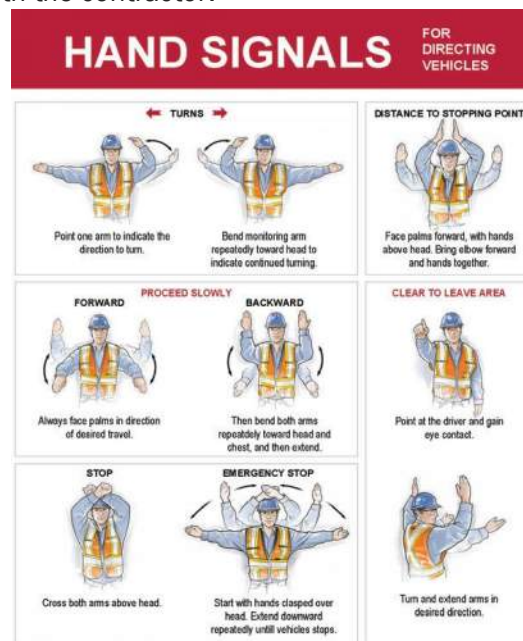


operator sees them. Personnel should not walk directly in the swing radius or in front, back or sides of mobile equipment without first making eye contact with the operator and obtaining approval. The use of high visibility safety vest is required.

The following precautions should be observed whenever heavy/mobile equipment is in use:

- PPE should include steel-toed boots, safety glasses, high visibility vests and hard hats at a minimum.
- Personnel must be aware of the location and operation of heavy equipment and take precautions to avoid getting in the way of its operation. Workers must never assume that the equipment operator sees them; eye contact and hand signals should be used to inform the operator of the worker's intent.
- Personnel should not walk directly behind, or to the side of, heavy equipment without the operator's knowledge. Workers should avoid entering the swing radius of equipment and be aware of potential pinch points.
- Nonessential personnel will be kept out of the work area.

The following are common hand signals used to communicate with mobile equipment operators. It should be noted that hand signals do occasionally vary by region and should be confirmed with the operator prior to starting work with the contractor.



Cooperation and clear, consistent communication between operators and spotters can minimize the potential for harm or damage. A spotter is a person designated to assist the operator in the safe movement of their equipment to make sure the heavy equipment doesn't inadvertently damage people, property and/or equipment/vehicles. Generally, spotters are required when:

- The operator's view of the intended path of travel or any part of its travel is obstructed (e.g. reversing, restricted side clearances)
- Operating equipment is in a location in which a person may be endangered by its intended path of travel

- Equipment is passing beneath or near overhead hazards (e.g. overhead power lines, communication lines, pipe racks)

The above-mentioned list is not all inclusive; the operator may identify other situations in which the use of a spotter will help prevent an incident. Spotters should be appropriately trained and qualified to perform task.

3.3.5 Drilling

The operator of drilling equipment shall be appropriately training and qualified for the role and is responsible for inspecting the drilling equipment prior to use each work shift to verify that it is functioning properly and maintaining documentation of noted deficiencies and resolutions, as applicable. During drilling activities, environmental or geotechnical, the operator must verify that the appropriate level of protection and safety procedures are utilized. Additionally, the operator and drill crew should provide a general equipment safety awareness orientation at the as part of initial mobilization activities to orient BC personnel to the equipment hazard zones, emergency shut-down procedures and coordinate setup of work spaced. Hard hats, steel-toed boots, hearing and eye protection will be required at all times when working around drill rigs. The proximity of underground and overhead utilities must be identified before any drilling is attempted, refer to respective hazard descriptions for additional information and precautions. The operator is required to verify that equipment “kill switches” are functioning properly at the start of each day’s use and the rig may not be moved with the mast in the upright position.

Hazards associated with drilling, beyond that associated with heavy/mobile equipment (see separate hazard description for additional information) include, but are not limited to, the risk of becoming physically entangled in rotating machinery, slipping and falling, impact injury to eyes, head and body and injury from machinery operations. Never work or walk on piles of casing or drill rods. Additionally, make sure all high-pressure lines and hoses have whip checks attached.

3.3.6 Drum Handling

Drum handling presents numerous serious physical hazards including back injury, crushing, bruising, laceration, and trauma from mishandling. Drum contents may represent a fire or explosion hazard or may also be pressurized or be acutely toxic/corrosive. Drum handling may, therefore, represent both physical and chemical hazards. A Site-specific drum handling protocol should be developed and followed prior to initiating drum handling activities on-Site.

Appropriate procedures for handling drums varies depending on the drum contents. Prior to handling, drums labels should be noted visually to identify their contents and the drums should be inspected for the following helpful information:

- Signs of deterioration such as corrosion, rust and leaks.
- Indications that the drum is under pressure, such as bulging.
- Configuration of the drumhead. For example, if the whole lid of the drum can be removed, then it was designed to contain solid material; if the lid has a bung, then the drum was intended for liquids. If the drumhead contains a liner, the drum may contain highly corrosive or otherwise hazardous materials.
- Noting the type of drum in conjunction with its label also may be useful for identifying potential hazards in unusual storage conditions. Polyethylene or PVC-lined drums often contain strong acids or bases. If the lining is punctured, the substance usually quickly corrodes the steel, and may cause a significant leak or spill. Exotic metal drums (e.g., aluminum, nickel, stainless steel)



are very strong and expensive, and are often used to store extremely dangerous materials. Single-walled drums used as a pressure vessel have fittings for both the storage product and for an inert gas. These drums may contain reactive, flammable, or explosive substances.

To avoid incidents, drums should only be handled when necessary. In all phases of handling, personnel should be alert for new information about potential hazards and should respond to new hazards before continuing with routine handling operations. The following procedures can be used to maximize worker safety during drum handling and movement:

- Only personnel fully qualified to handle waste drums will be used (often a specialty subcontractor).
- Train personnel in proper lifting and moving techniques.
- Personnel should wear appropriate PPE for the hazard, which at minimum, will include steel-toed boots, safety glasses and gloves to protect against the potential contaminant (as defined in this safety plan).
- Personnel should not lift or move the drum alone. Get help or use a drum dolly.
- When using a drum dolly; make sure the dolly is appropriate for the task; the drum is properly closed, loaded and secured to the dolly; and the pathway is clear of obstructions.
- Drums and containers that cannot be moved without rupture, leakage or spillage should be emptied into a sound container using a device classified for the material being transferred.

3.3.7 Work On or Near Roadways

Vehicular traffic presents opportunities for serious injury to persons or property and is considered a project hazard not only when BC or our subcontractors are working along or within road Right-of-Ways (RoWs) but also when conducting activities in facility parking lots, alleyways and access roads.

All work on, or adjacent to, existing public and jobsite roadways shall be performed in conformance to site requirements and applicable jurisdiction requirements. Refer to the current U.S. Federal Highway Administration Manual on Uniform Traffic Control Devices for guidelines. Where required, an approved Traffic Control Plan (TCP) shall be developed and proper permits obtained. Additionally, when activities are conducted within any roadway, whether minor or major road, a barricade vehicle or other barricade device must be in-place prior to proceeding with activities. This include when there is the potential for support equipment/support to encroach within this area.

The following good operating practices will be implemented, at a minimum, when working in or near traffic areas in addition to the aforementioned requirements:

- Site personnel will wear ANSI Class 3 high-visibility traffic safety vests or outerwear whenever activities are conducted in areas of heavy traffic. Note some activities and clients may require vest or outerwear to meet ANSI Class 3 criteria, such as when working at night or along major roadways (such as highway or interstate).
- **Never turn your Back on Traffic.** When working in or near a roadway, walk and work with your face to the oncoming traffic. If you must turn your back to traffic, have a coworker watch oncoming traffic for you.
- Consider using amber/yellow warning lights to alert traffic to the work zone. Note that amber/yellow warning lights may be required by specific clients or ordinances and should be utilized when conducting windshield surveys along major roadways where BC or subcontractor vehicles would have stop/go operations.



- It is important to be conscious of all vehicular traffic that may be present while conducting field operations. Use caution tape, barricades, or safety cones to denote the boundaries of the work area and to alert vehicle operators to the presence of operations, which are non-routine to them. Be careful when exiting the work area and especially when walking out from between parked vehicles to avoid vehicular traffic. Note this includes working within the RoW, not only while conducting activities in the roadway.
- As previously stated, if required by local ordinances or if work will be conducted along a major roadway, a Traffic Control Plan (TCP) will be developed by a qualified and competent person. This TCP will be incorporated as part of this H&S Plan as an attachment and implemented accordingly. If professional flagging will be required as part of this TCP, then an appropriate company will be subcontracted to perform services.
- **Vehicle and Positioning.** Whenever possible, place a vehicle between your work area and oncoming traffic when working within the row. Not only is the vehicle a large, visible warning sign, but also if an oncoming car should fail to yield or deviate, the parked vehicle, rather than your body, would absorb the first impact of a crash. Turn the wheels so that if the vehicle were struck, it would swing away from the area of work. Even though the vehicle would protect you in a crash, it might be knocked several feet backward. Always leave some room between the rear of the vehicle and the work area.
- **Use of Signs and Cones to Direct Traffic.** Traffic signs and cones are used to inform drivers and direct traffic away from and around you. Cones and signs are only effective if they give oncoming drivers enough time to react and make it clear how traffic should react. The most common coning situation is setting a taper of cones that creates a visual barrier for oncoming motorists and gradually closes a lane. The position of the taper depends on the road width, position and size of the work area, and on the characteristics of the traffic.

3.3.8 Noise

Noise may result primarily from the operation of heavy equipment, process machinery or other mechanical equipment. Hearing protection with a Noise Reduction Rating (NRR) of 28 or above shall be worn in areas with high noise levels. A good rule of thumb to determine if hearing protection is needed is the inability to have a conversation at arm's length (3 feet) without raising voice levels or if noise is greater than 85 decibels. If loud noise is present or normal conversation becomes difficult, hearing protection in the form of earplugs, or equivalent, will be required.

3.3.9 Underground Utilities

Reasonable efforts will be made to identify the location(s) of underground utilities (e.g., pipes, electrical conductors, fuel lines, and water and sewer lines) before intrusive soil work is performed. The state underground utility notification authority (e.g., 811, USA, Dig Alert, Blue Stake, etc.) will be contacted prior to the start of intrusive field activities in accordance with local notification requirements. Additionally, for some projects a Control of Work (CoW) permit for ground disturbance activities may be required to be issued prior to breaking ground and the project SSO or SM should be consulted.

In areas not evaluated or serviced by the underground utility notification authority, and a reasonable potential for underground utilities exists, one or more of the following techniques will be employed to determine the location of subsurface structures.

- Contracting the services of a qualified private utility locator.



- Having a survey of the subject area conducted by staff trained in the use of subsurface utility locating equipment.
- Subsurface testing (i.e., hand digging or potholing) to the expected depth of probable utilities (not less than 5 feet).

If utilities cannot be located or if un-located utilities are suspected to be present, subsurface activities (i.e., borings, excavation) should not be conducted before the location(s) or absence of underground utilities is confirmed.

Typical subsurface location marks are as follows:

- Red – electrical,**
- Yellow – gas/oil/steam,**
- Blue – water,**
- Green – sanitary/storm drains/culverts,**
- Orange – communications, and**
- White – proposed excavation or boring.**

Intrusive work should be limited to outside the area 3.3 feet (1 meter) on either side of the location marks. In some special cases, such as fiber optics and high-pressure pipelines this area should be expanded to 16.5 feet (5 meters) on either side of the utility. If work must occur within these boundary areas, the location of the utility will be visually confirmed via hand clearance methods prior to starting activities.

3.3.10 Portable Hand and Power Tools

Personnel may be required to use hand and power tools to perform a task in the field, including cutting activities. While performing these activities on active construction Sites, except where more stringent requirements may exist, all hand and power tool operations shall be in accordance with OSHA 29 CFR 1926 Subpart I.

Cutting Utensils

Frequently, field tasks require the cutting of items such as rope, packaging or other containers. Care should be exercised in using knives and/or cutting implements while performing such cutting tasks. Note that many facilities ban the use of open blades such as knives or box-cutters and the use of these type of tools are generally discouraged. The following are general safe practices regarding the use of cutting utensils:

- Use utensils that have a safety blade holder with a retraction spring on a track where blade mounts with a hook type blade which has a reduced cutting edge. When the hook of the blade is cutting the object, it keeps the blade extended. If the blade breaks or the operator's hand slips the blade automatically retracts into the handle of the safety blade holder.
- Replace blades when they become dull. If material becomes hard to cut, then the blade is dull.
- Wear cut-resistant (such as Kevlar) gloves and safety glasses.
- Personnel should cut down and away from their body and other personnel.
- The item being cut should be braced or secured from movement while cutting.
- If you drop the knife or other cutting utensil, just let it fall to the ground and DO NOT try to catch it.



- If you lay the knife or other cutting utensil down, make sure the blade is retracted into the holder or the knife or other utensil is placed in a protective holder.

General Safe Practices for Hand and Power Tools

The following are general safe practice regarding the use of hand and power tools:

- All hand and power tools shall be visually inspected by the user prior to use for any defects. Tools with defects shall not be used and tagged out of service.
- Personnel shall only use tools for which they have been trained and in accordance with manufacturer requirements.
- Tools should only be used for the task for which the tool has been designed.
- Power tools shall not be used if safety equipment such as shields, tool rests, hoods, and guards have been removed or otherwise rendered inoperative.
- Employees using tools under conditions that expose them to risk of flying objects, harmful dusts, and/or noise shall be provided with the required additional PPE to complete the task such as hearing protection, respirator and/or face shield.
- All electrically powered tools shall be properly grounded. Outlets for 110-volt tools shall be protected by ground fault circuit interruption devices whenever used in outdoor or wet environments. Double-insulated electrical hand tools are required.
- Portable grinders will be provided with hood-type guards with side enclosures that cover the spindle and at least 50% of the wheel. All wheels will be inspected regularly for signs of fracture, have a ring test performed and check that wheels are rated for the grinder's RPM.
- Hoses supplying pneumatic tools shall have couplings secured to prevent accidental disconnection. "Push, twist, click" locking connection disconnects shall be used. Where those cam lock connectors are not used, a safety pin and whip check must be utilized. Quick disconnects larger than 3/4-inch inside diameter must have safety pins and whip cables attached to the hose, pipe connection and between connected hoses, unless automatic shutoff valves are used. Whip checks are required for air hoses 3/4-inch or larger.
- Air supply lines will be protected from damage, inspected regularly and maintained in good condition. Air sources supplying hoses exceeding 1/2-inch ID shall be protected by excess flow valves to prevent whipping in the event of hose separation or failure.
- The pressure of compressed air used for cleaning purposes will be reduced to 30 psi or less (this does not apply to cleaning of forms, etc.). Hose extensions always will be used. At no time shall compressed air be directed toward a person.

3.3.11 Equipment Refueling

Care shall be exercised while refueling generators, pumps, vehicles and other equipment to prevent fire and spills. Personnel shall eliminate static electricity by grounding themselves (touching metal) prior to using refueling hoses and or containers of petroleum liquids. Items being refueled shall be grounded or be located on the ground and not on a trailer, workbench or inside a truck bed. Equipment that is hot must be allowed to cool prior to refueling. Spill response materials shall be available when conducting refueling operations.



3.3.12 Excavations

BC employees should not perform excavation work; however, these activities may be performed on-Site by a subcontractor or prime contractor. Personnel should maintain a safe distance from the open excavation and coordinate with equipment operators and designated competent person prior to accessing the immediate work area. Note that for some projects use of a Control of Work (CoW) permit may be required and field personnel should consult their SSO or SM.

On occasion, BC employees may need to enter some excavations, up to 10-feet in depth, for the purpose of collecting soil samples. For excavation entry, no greater than 10-feet in depth, BC employees will do the following each time prior to entering the excavation:

- Employees will communicate with the designated excavation competent person to ask:
 - If this excavation is designated as a permit-required confined space,
 - What are the safe procedures for entering the excavation, and
 - Has the excavation been inspected that day and determined safe for entry.
- Employees will not enter excavations unless above questions are addressed to satisfaction. If an excavation is a permit-required confined space then BC will pause work to develop an entry procedure.
- A competent person who is capable of identifying existing and predictable hazards in the surroundings, or working conditions that are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them, will be present during excavation activities.
- The atmosphere will be tested in excavations, before employees are permitted to enter and begin work, greater than 4 feet in depth or where oxygen deficiency or toxic or flammable gases are likely to be present. The atmosphere shall be ventilated and re-tested until flammable gas concentrations less than 5 percent of the lower explosive limit (LEL) and site-specific action levels are obtained (Section 5). Worker entry will not be allowed if the oxygen concentration is less than 20 percent. In addition, a safe means of access and egress (i.e., a ladder, stairs or ramp) must be provided so that no more than 25 feet of lateral travel is required by employees.
- If excavation area is considered potentially chemically impacted, additional precautions should be implemented to protect personnel from exposure such as donning Tyvek booties and potentially additional air monitoring. These additional precautions should be coordinated with the SM prior to entry.

Workers will not enter unstable excavations or excavations greater than 4 feet in depth without appropriate protective systems such as benching, sloping, or shoring. If shoring or shielding systems are not used, side slopes will not be steeper than 1½:1 without written confirmation from the competent person that the slope is safe for the soil conditions. Excavations will be constructed in accordance with the OSHA Excavation Safety Standard (29CFR1926 Subpart P).

The competent person will inspect excavations daily. If there is evidence that a cave-in or slide is possible, work will cease until the necessary safeguards have been taken. Excavated material will be placed far enough from the edge of the excavation (a minimum of 2 feet) so that it does not fall back into the opening or affect the integrity of the sidewall. Additionally, operating equipment should maintain a 2-foot setback from the excavation edge to reduce potential for soil surcharge and subsequent cave-in. At the end of each day's activities, open excavations will be clearly marked and secured to prevent nearby workers or unauthorized personnel from entering them. Remote sampling techniques will be the preferred method of sample collection in excavations.



3.3.13 Fire/Explosion

Site workers should have an increased awareness concerning fire and explosion hazards whenever working with or near flammable materials, especially when performing any activity that may generate sparks, flame or other source of ignition. Intrinsically safe equipment is required when working in or near environments with the potential for an explosive or flammable atmosphere. The SSO will verify facility requirements for a “hot work” permit before activities that may serve as a source of ignition are conducted.

Flammable materials will be kept away from sources of ignition. In the event of fire, work will cease, the area will be evacuated, and the local fire response team will be notified immediately. Only trained, experienced fire fighters should attempt to extinguish substantial fires at the Site. Site personnel should not attempt to fight fires, unless properly trained and equipped to do so. A fully charged ABC dry chemical fire extinguisher will be readily available for use during all scheduled activities at the Site.

In the event of a wildfire, field personnel including subcontractors are to evacuate the area immediately and contact emergency services along with the SM. If caught in a wildfire, choose downhill routes when possible but avoid canyons, chutes or draws. Stay low if flames are upon you and breathe through your clothing, fire blankets are to be used only as a last resort.

3.3.14 High-Pressure Hazards

Personnel may be exposed to high-pressure scenarios while performing work at this Site. High-pressure exposure may come from, but not be limited to, ruptures in pressurized lines/pipes, use of pressurized equipment (i.e. cleaning equipment), when working with compressed gas, or even develop in normally non-pressured vessels (i.e. volatilization in sealed waste drum).

Direct exposure to high-pressure streams may cause lacerations, burns, loss of eyesight, infections from water and/or debris trapped beneath the skin, or even the loss of an appendage. Additional injuries could also be inflicted from whiplash from a broke pressurized line.

Drummed/Sealed VOC Waste:

If high VOC concentrations are present and/or drums or other sealed containers are stored in direct sun, due to volatilization the vessel may become pressurized. Prior to moving, sealed drums should be inspected for signs that the drum is under-pressure, such as bulging. If determined to be under-pressure, care should be taken to ensure pressure is relieved before opening or removing. A face shield should be utilized while relieving the pressure in addition to appropriate gloves and/or outerwear for chemical exposure (Section 4). Refer to Drum Handling for additional information regarding safe drum handling procedures.

Pressurized Hoses:

Pressurized hoses may be used at the Site to run tools like air knives and pressure washers. While the tools they power can make a worker's job much easier, the hoses themselves can be dangerous if handled improperly. The hoses derive power from the liquid or gas that moves inside them; however, that power also creates a reactive force. If the force is strong enough, it can cause the hose to whip, possibly causing serious injury if it strikes a worker and property damage.

The following tips can help prevent hose whipping hazards:

- Inspect hoses for torn outer jackets, damaged inner reinforcing or soft spots before using them. Hoses with these types of damage should be removed from service.



- Reduce the pressure in the hose to a lower level if possible. Setting pressure regulators to 30 psi or less can minimize the possibility of the hose whipping.
- Restrain pressurized hoses that are unavoidably located near other employees with guards that are strong enough to keep the hoses in place if a leak or rupture occurs.
- Use solid lines with tight fittings if possible instead of flexible hoses when working near other employees. Solid lines do not whip or leak as readily as flexible hoses, which can develop leaks from vibration, pressure cycles and aging.
- Examine the connections on pressurized hoses frequently to prevent any accidental detachment of the line, which would result in uncontrollable whipping. Hose clamps with a restraining chain should be used to minimize the whipping effect if hose connections should accidentally become loose.
- Never connect or disconnect pressurized hoses, always depressurize first.
- Don't stop the airflow in a hose by bending or crimping with pliers as this could cause major hose damage.

3.3.15 Working On or Near Water

Working on or in close proximity to water bodies (e.g. streams, ponds, etc) presents many hazards to field personnel that can range from uneven or slick terrain, potentially dangerous water levels/currents, entrapment from sloughing ground, chemical/sewage exposure to electrocution. Accidentally falling into a water-body could result in physical injuries, hypothermia and in severe cases drowning. Remember that a person can drown in as little as 2-inches of water. Risks should always be assessed for the scope to be implemented in relation to additional hazards present by completed tasks on, in or in close proximity to water prior to proceeding with activities. While working over or near water on active construction Sites, except where more stringent requirements may exist, activities shall be conducted in accordance with 29 CFR 1926.106.

General Safe Practices for Working Around Water-bodies

- Prior to commencing work, the task should be evaluated for associated hazards posed by the water and at a minimum an emergency response plan for a water-related emergency, such as worker falling into the water, high-currents or wave action or inclement weather, should be developed. Keep water rescue equipment easily accessible.
- Keep rescue and emergency equipment close and easily accessible, not more than 200-feet away from the work area.
- Know the water depth, subsurface conditions and ground conditions before you begin work along a bank or within the water-body (i.e., stream walk, sampling, etc.).
- Keep equipment a safe distance back from the water's edge.
- Under no circumstances will personnel enter water bodies without protective clothing (i.e., rubber boots, waders, wet suit, etc.).
- Avoid traveling over ice covered water and make sure you have spare clothing available to address the potential of hypothermia if someone falls into the water during the winter or cooler weather conditions.
- Where the potential of drowning exists, personnel shall be provided a US Coast Guard (USCG)-approved life jacket or buoyant work vest (also known as personal floatation devices [PFDs]). It



is recommended to don such PPE in when working within 6-feet of a water-body 3-feet or deeper.

- Prior to and after each use, PFDs shall be inspected for defects which would alter their strength or buoyancy, with defective items removed from service.
- Where possible erect barricades or warning devices such as traffic cones, plastic fencing or caution tape to prevent access and/or serve as a warning system if a worker unintentionally approaches the water body.

Streams/Storm Water Conveyances

Personnel may need to work along or within streams, creeks, small rivers or storm water conveyances as part of Site activities. These features may be located near freeways and highways that present additional hazards and the hazard description for working on or near roadways should be reviewed. Additionally, these features may have high flows or strong currents under normal conditions or following storm events that present a threat to workers. Work in and around streams will require the use of the buddy system for safety purposes. Prior to entering water, employees must evaluate the need to wear PFDs, rubber boots or waders and use them as is deemed necessary based on conditions presented. Some factors to consider when evaluating the need to wear a PFD are stream current speed, streambed material (e.g. slippery stones vs. small gravel/sand), water depth and how far out from the bank the employee will be required to go into the stream. When walking in the stream, efforts will be made to walk in the shallow and/or slower moving parts of the stream whenever possible.

During storm events that cause streams and rivers to rise to dangerously high conditions, employees should discontinue their work until safe working conditions resume. When precipitation falls in the area, water levels within the stream may change quickly. Rising water levels may be dangerous. All personnel should exit the stream once wet weather has occurred in the area. If the forecast calls for rain, the group should meet and discuss alternative activities that may be planned for the day. After a rain, the SSO must evaluate field conditions and halt fieldwork if there is the possibility of the development of a hazardous condition.

3.3.16 Fatigue

Fatigue is an acute, ongoing state of tiredness that leads to mental and physical exhaustion and prevents people from functioning within normal boundaries. It is more than feeling tired and drowsy, it is a physical condition that can occur when a person's physical or mental limits are reached. Signs of fatigue include tiredness even after sleep, psychological disturbances, loss of energy and inability to concentrate. Fatigue can affect the ability to communicate clearly, work safely and productively and react optimally in an emergency situation. Additionally, fatigue and related consequences can be significant contributing factors in incidents.

Fatigue can occur as a result of various factors that may be work-related, lifestyle related or a combination of both. Work factors can include the work task, work scheduling and planning and environmental conditions. Lifestyle factors can include inadequate or poor quality of sleep due to sleep disorders, social life, secondary employment, travel time, health and wellbeing.

Everyone in the workplace has a responsibility to help ensure fatigue does not pose a H&S risk at work. If an employee is experiencing fatigue or notices a co-worker exhibiting signs of fatigue, he or she should contact the PM or SSO to discuss alternative work arrangements. The following signs or symptoms may indicate a co-worker is fatigued:

- Excessive yawning or falling asleep at work



- Short-term memory problems and an inability to concentrate
- Noticeably reduced capacity to engage in effective interpersonal communication
- Impaired decision-making and judgment
- Reduced hand-eye coordination or slow reflexes
- Other changes in behavior, for example repeatedly arriving late for work
- Increased rates of unplanned absence

Personnel must take reasonable care for their own health both at work and during off hours to prevent workplace fatigue. It is the responsibility of each field personnel to communicate their field work commitments to their supervisor and other PMs to ensure that work assignments are appropriately managed to reduce the potential of creating worker fatigue.

3.3.17 Removing/Replacing Manhole Covers

Removing and replacing manhole covers can present potential hazards (e.g. overexertion, struck by, caught between, contaminated air, traffic, etc.) to personnel. Therefore, personnel should always first seek to have client or contractor personnel remove and install the manhole cover whenever possible. If this is not possible, then BC personnel need to plan and carefully consider all the potential hazards and controls associated with the removal and installation. Hardhat, safety glasses, safety boots, and leather/cut-resistant gloves must be used when attempting to remove manhole covers.

When working near an open sewer manhole, air monitoring must be performed to verify that the atmosphere is safe for work activities. At no time are personnel to break the plane of the manhole with any part of their body. Where entry must be made, the requirements of the Confined Spaces section of this health and safety plan must be complied with at all times (i.e. training, air monitoring, ventilation, permitting, rescue, etc.).

The following are general guidelines for the removal and replacement of manhole covers. Use procedures as they apply to the specific covers to be removed. Additional tools or different procedures may be necessary for a particular location.

- **Unseating the Manhole Cover.** Lift the cover with the Hook and Lifter tool. If needed, remove any encrustation with a cold chisel prior to lifting if cover appears stuck in frame. Next, attach the hook and lifter tool to the outer edge/rib before trying to move the cover. Unseat the cover, about four inches, by pulling and lifting with a fluid motion. If the cover still appears stuck, place a block of wood on the cover near the rim and hit the block of wood with a heavy hammer. Do this at different points around the rim until the cover has loosened.
- **Removing the Manhole Cover.** Use proper body mechanics – using the leg and arm muscles to lift and pull the cover – do not use your back. With your feet properly positioned evenly apart and footing secure, pull the cover clear of the frame. Once clear of the frame keep pulling the cover with a steady motion and remove it from the work area. Potential pinch points exist to the hands, fingers, and feet. Never place your hands, fingers, or feet under the manhole cover. Whenever possible, have someone assist with the removal and replacement of the manhole cover.
- **Replacing the Manhole Cover.** Stand parallel to the desired direction of travel for moving the manhole and check the cover frame of the manhole to make sure it is free of any obstructions or debris. Place the point of the Hook and Lifter tool under the edge of the cover, lift slightly, and drag the cover toward its frame. Move to the opposite side of the cover and repeat the lifting and dragging motion. Continue alternating the lifting and dragging until the cover is



partially over the manhole frame. With the hook, lift the edge that is farthest from the opening until the cover slides into the frame of the manhole. Check the cover for proper seating in the manhole cover frame.

3.3.18 Slip, Trips and Falls

Slipping hazards may exist due to uneven terrain, wet or slick surfaces, leaks or spills. Tripping hazards may be present from elevation changes, debris, poor housekeeping or tools and equipment. Some specific hazards may include climbing/descending ladders, scaffolding, berms or curbing. Collectively, injuries from these types of hazards account for nearly 50 percent of all occupational injuries.

Prevention requires attention and alertness on the part of each worker, situational awareness of their surroundings, following and enforcing proper procedures that include good housekeeping practices and wearing appropriate footwear for the terrain. If personnel are working within a congested area or in rough terrain, effort should be made to establish a clear, safe walking path or access way to/from the work area involving the engagement of Client personnel or other Site contractors, if necessary.

3.3.19 Materials and Equipment Handling or Lifting

The movement and handling of equipment and materials on-Site or when preparing to mobilize/demobilize from a Site pose a risk to workers in the form of muscle strains and minor injuries. These injuries can be avoided by using safe handling practices, proper lifting techniques and proper personal protective equipment such as steel-toed boots and sturdy work gloves. Where practical, mechanical devices will be utilized to assist in the movement of equipment and materials. Workers will not attempt to move heavy objects by themselves without using appropriate mechanical aids such as drum dollies, carts or hydraulic lift gates. Personnel are discouraged from carrying loads over 50 pounds without employing the buddy system or utilizing mechanical equipment for assistance.

Prior to lifting and/or carrying a load, personnel are encouraged to plan for the lift by first identifying if an alternative to lifting is available (buddy system, mechanical assistance, etc.) and if the lifting is determined necessary, follow proper lifting techniques. Proper lifting techniques include, but are not limited to, the following:

- Face the object squarely and get as close to it as you can.
- Lift with the strength of your knees, not your back.
- Firmly plant your feet approximately shoulder-width apart.
- Turn your whole body, do not bend or twist at the waist.
- Be sure that the path is clear of obstructions or tripping hazards; avoid carrying objects that will obstruct your vision.
- Use caution when holding an object from the bottom to prevent crushing of the hands or fingers when lowering.
- Lower the object in the reverse of way you picked it up, keeping your back straight, tightening your abdomen, and bending at the knees.
- Whenever possible, store heavy loads off the floor.
- Don't twist your body when lifting or setting an object down.



3.3.20 Preserved Laboratory Sample Kits

When environmental media samples are collected, some laboratory analyses require the addition of preservative in the sample bottle prior to receipt. Personnel should be aware of the potential for preservative (HCL, sulfuric acid, nitric acid, etc.) to leak during shipment. When opening laboratory kit coolers/boxes, personnel should exercise caution to minimize splash potential and wear appropriate PPE, which would include, at a minimum, nitrile gloves and safety glasses. If leakage is observed, the shipping container or cooler should be appropriately cleaned and/or discarded. Additionally, personnel should notify the respective laboratory about the leakage and request that preventative measures be implemented to minimize potential for leakage moving forward.

3.3.21 Groundwater Sampling

Sampling approach for the collection of groundwater samples from monitoring and/or extraction wells varies based on multiple factors that may include depth, diameter, volume of groundwater produced and local state requirements. Anticipated sampling equipment may include, but not be limited to, bailers, inertial pumps (foot-valves), submersible pumps (plastic or stainless steel), peristaltic/suction pumps, bladder pumps and piston/pneumatic pumps. It should be noted that BC personnel conducting groundwater-sampling activities may not only be exposed to hazards associated with sample pump operation but also laboratory kit and purge water handling.

The operation of pumps, including the installation/removal and accessing work-area, include the following potential hazards:

- Back strain from carrying equipment to/from work-area.
- Back strain from lifting/lowering the device within a well. It should be noted that the deeper the well the more effort would be spent removing the device.
- Repetitive motion injury from sampling large number of wells/locations and/or bailing larger diameter or deep wells.
- Electrical shock potential from operating pump from battery, car or generator.
- Back strain from moving support equipment to operate pumps such as compressed gas cylinders or generators.
- Chemical exposure from impacted groundwater potentially splashing or spilling between discharge point and sample or purge container.
- Chemical exposure from removing equipment from well following sampling.
- High-pressure exposure from broken/ruptured compressed gas line (bladder or pneumatic pumps).
- Chemical exposure and possible ignition of gasoline used to power generators (from filling up gas canisters to filling up generator; submersible pumps).
- Possible burn from handling overheated pumps - consider using cooling shroud, if appropriate. (submersible pumps).
- Potential burns or property damage from possible battery leakage.
- Potential encounters with stinging insects or spiders in outer protective casing.
- Injuries from cutting tubing/string or using tools to open casing covers/lids.
- Tripping over cords, tubing, string, etc.



Personnel performing groundwater-sampling activities should be familiar with the type of pump used and be trained in the appropriate operation of respective device. Additionally, selection of pump should not only take into consideration technical project requirements but also environmental conditions (e.g., carry only access, intrinsically safe, etc.). The following are tips to help minimize hazard exposure during groundwater sampling pump operation:

- Practice proper lifting techniques. Where practical, mechanical means should be utilized to assist in the movement of equipment and materials. Do not attempt to lift by bending forward. Bend your hips and knees to squat down to your load, keep it close to your body, and straighten your legs to lift. Avoid turning or twisting your body while lifting or holding a heavy object. Refer to Equipment and Materials Handling or Lifting Hazard for additional information.
- Consider the well area and access when setting up workspace to avoid creating additional slip, trip and fall hazards. Maintain good housekeeping.
- Utilize carts, gators or dollies when loading equipment into a vehicle and/or moving equipment and/or industrially derived waste (IDW) around the Site.
- Utilize hose or cord reels and/or winches when possible.
- Consider wearing sturdy work gloves with chemically protective glove to protect hands from scrapes or punctures when carrying equipment and/or lowering/removing the equipment from wells.
- Remember to consider pinch-points when connecting and disconnecting sampling/pump equipment.
- When connecting pump cables to a battery (portable or car), always connect the red (positive) cables first and do not touch the metal clamps.
- Inspect all equipment components such as lines, wires, straps or cases for damage and wear and tear that could cause sharp edges, electrical failure, pump failure or failure of the case while carrying.
- Appropriately ground electrical equipment and utilize GFCIs where applicable. If unsure how to ground selected equipment, personnel should consult the equipment vendor and/or the BC ESO. Refer to Electrical Hazards for additional guidance in relation to temporary grounding.
- Use caution when refueling and running generators. Refer to Equipment Refueling Hazard for additional information.
- Portable batteries should be self-contained and/or placed in a cooler to assist with transport and to provide secondary containment if battery corrodes and leaks. Between each use, battery should be inspected for possible corrosion and replaced as applicable.
- If operating electrical pumps during rain or snow events, batteries should not be placed directly on the wet ground surface and should be covered. Similar protection should be provided to pump controllers. If using a generator, check vendor operating procedures to determine if and how to operate equipment in such conditions.
- If utilizing compressed gas cylinders to operate pump equipment, refer to High Pressure Hazards for additional hazard information and guidance.
- If requirement to move/manage IDW drums while on-site, refer to the Drum Handling Hazard for additional guidance.



- Additionally, be aware of biological hazards while opening stick up or flush mount protective casings and be prepared for exposure prior to approaching well. Refer to Biological Hazards for additional information regarding potential biological hazards identified for this Site.

3.4 Natural Phenomena

Natural phenomena such as weather-related emergencies and acts of nature can affect employees' safety. Natural phenomena can occur with little or no warning. If an emergency situation arises as a result of natural phenomena, adhere to the contingency procedures outlined in Section 10.

The following natural phenomena have been identified and may be encountered during scheduled field activities:

- [Sunburn](#) [Heat Stress](#) [Cold Stress](#)
- [Lightning/Electrical Storms](#) [Hurricanes/Nor' Easters](#) [Tornados and Strong/Straight Line Winds](#)
- [Earthquakes](#) [Flooding](#) [Snow/Freezing Rain](#)
- [Other:](#)

Actions to be taken to protect against the hazards identified are provided in the sections below.

3.4.1 Sunburn

Working outdoors with the skin unprotected for extended periods can cause sunburn to the skin. Excessive exposure to sunlight is associated with the development of skin cancer. Field staff should take precautions to prevent sunburn by using sunscreen lotion and/or wearing hats and long-sleeved garments.

3.4.2 Heat Stress

Climate conditions, particularly heat, are important considerations in planning and conducting Site operations. Heat-related illnesses range from heat fatigue to heat stroke, with heat stroke being the most serious condition. Workers should be trained and aware of signs and symptoms of heat-related illnesses, as well as first aid for these conditions, summarized in the table below. The SSO and Site workers will monitor each other for signs of heat stress. If an employee exhibits signs or symptoms of heat-related illness, the SSO or designee must be notified and the appropriate response procedures initiated.

Heat Related Illness			
Condition	Signs	Symptoms	Response
Heat Rash or Prickly Heat	Red rash on skin.	Intense itching and inflammation.	Increase fluid intake and observe affected worker.
Heat Cramps	Heavy sweating, lack of muscle coordination.	Muscle spasms, and pain in hands, feet, or abdomen.	Increase fluid uptake and rest periods. Closely observe affected worker for more serious symptoms.
Heat Exhaustion	Heavy sweating; pale, cool, moist skin; lack of coordination; fainting.	Weakness, headache, dizziness, nausea.	Remove worker to a cool, shady area. Administer fluids and allow worker to rest until fully recovered. Increase rest periods and closely observe worker for additional signs of heat exhaustion. If symptoms of heat exhaustion recur, treat as above and release worker from the day's activities after he/she has fully recovered.



Heat Related Illness			
Condition	Signs	Symptoms	Response
Heat Stroke	Red, hot, dry skin; disorientation; unconsciousness	Lack of or reduced perspiration; nausea; dizziness and confusion; strong, rapid pulse.	Immediately contact emergency medical services by dialing emergency medical services. Remove the victim to a cool, shady location and observe for signs of shock. Attempt to comfort and cool the victim by administering small amounts of cool water (if conscious), loosening clothing, and placing cool compresses at locations where major arteries occur close to the body's surface (neck, underarms, and groin areas). Carefully follow instructions given by emergency medical services until help arrives.

The effects of ambient temperature can cause physical discomfort, loss of efficiency, personal injury and can increase the probability of mishaps. Protective clothing that decreases the body's ventilation can be an important factor leading to heat-related illnesses.

To reduce the potential for heat-related illness, workers are encouraged to drink plenty of water/fluids to stay properly hydrated. In addition, a work schedule will be established that will provide sufficient rest periods for cooling down (at least five minutes when workers feel the need to do so) and have access to shade from the sun (which, in addition to natural shade or canopies, includes resting inside a vehicle with the air conditioner running). **Personnel must maintain an adequate supply of non-caffeinated drinking fluids on Site for personal hydration – a minimum of one quart of water per employee per hour.**

3.4.3 Cold Stress

Workers performing activities during winter and spring months may encounter extremely cold temperatures, as well as conditions of snow and ice, making activities in the field difficult. Adequate cold weather gear, especially head and footwear, is required under these conditions. Workers should be aware of signs and symptoms of hypothermia and frostbite, as well as first aid for these conditions. These are summarized in the table below.

Cold Stress Symptoms and Response			
Condition	Signs	Symptoms	Response
Hypothermia	Confusion, slurred speech, slow movement.	Sleepiness, confusion, warm feeling.	Remove subject to a non-exposed, warm area, such as truck cab; give warm fluids; warm body core; remove outer and wet clothing and wrap torso in blankets with hot water bottle or other heat source. Get medical attention immediately.
Frostbite	Reddish area on skin, frozen skin.	Numbness or lack of feeling on exposed skin.	Place affected extremity in warm, not hot, water, or wrap in warm towels. Get medical attention.
Trench Foot	Swelling and/or blisters of the feet	Tingling/itching sensation; burning; pain in the feet	Remove wet/constrictive clothing and shoes. Gently dry and warm feet with slight elevation. Seek medical attention.

3.4.4 Lightning/Electrical Storms

Lightning can be unpredictable and may strike many miles in front of, or behind, a thunderstorm. Workers will therefore cease field operations at the first sign of a thunderstorm and suspend activities until **at least 30 minutes after the last observed occurrence of lightning or thunder.** For purposes of this HASP, signs of a thunderstorm will include any visible lightning or audible thunder.



In the event of a thunderstorm, field personnel will take the following actions:

- Get inside a permanent building structure (not a shed or canopy) or fully enclosed metal vehicle (not a convertible or camper shell) with the windows fully up.
- If in a house or building, do not use the telephone or any electrical appliance that is connected to the building's electrical wiring.
- Stay away from tall isolated objects, such as trees, drill rigs, telephone poles, or flagpoles.
- Avoid large open areas, such as fields or parking lots, where a person is the relatively highest object.
- Stay away from lakes, ponds, railroad tracks, fences, and other objects that could transmit current from a distant lightning strike.
- If caught out in the open without time to escape or find shelter, seek a low area (if time permits), crouch down, and bend forward holding the ankles. Tuck the head so that it is not the highest part of the body, without letting it touch the ground. Under no circumstances lay down.

If a person is struck by lightning contact emergency medical services, even if he/she appears only stunned or otherwise unhurt as medical attention may still be needed. Check for burns, especially at fingers and toes, and areas next to buckles and jewelry.

3.4.5 Hurricanes/Nor' Easters

The key to responding to hurricane conditions is being informed. Before taking to the roads to leave for or from a jobsite during suspect hurricane conditions, listen to the radio for current and forecast conditions. Know what the weather reports mean by "watch" and "warning." A hurricane watch means hurricane conditions are possible in the specified area of the watch, usually within 36 hours. A hurricane warning indicates hurricane conditions are expected in the specified area of the warning, usually within 24 hours.

If watch or warning conditions exist, employees will communicate with the project manager to determine the appropriate course of action. Travel to or from work is not recommended if the employee will travel near a hurricane warning area. Restrictions on travel during hurricane watches are largely dependent on the actual weather conditions at the time. Employees are discouraged from driving during weather conditions where visibility and vehicle control are severely limited.

Nor'easters have the potential to cause as much damage as hurricanes, with powerful winds, rain or snow and large waves. They can pound and erode beaches with heavy surf, affect inland areas with flooding, or coat the land with thick layers of ice and snow.

Nor'easters result from the counterclockwise rotation of a low-pressure system and the clockwise rotation of a high-pressure system, combining to bring wind and moisture to the northeast. The nor'easter's ferocity will depend on the strength of the two systems.

One reason nor'easters are so dangerous is that they tend to move much more slowly than hurricanes. That slow movement allows the storm's effects to accumulate in an area.

A nor'easter's wind circulation can cause tidal waters in back bays to be held in place, and not allow the water to drain through inlets into the ocean. The accumulation of more and more water in tidal areas can cause widespread flooding.

Nor'easters can occur all year long, but are primarily a risk between September and April.

In the event of a hurricane or nor'easter, be prepared by:



- Checking NOAA Weather Radio All Hazards, your local radio and TV stations (i.e, The Weather Channel) for updates, watches, warnings or emergency instructions.
- Know the Coastal Evacuation Route for coastal areas or an inland area with chronic flooding.

For long term projects with temporary or permanent offices, keep an emergency preparedness kit consisting of, but not limited to:

- Current project/office contacts list – (how to reach folks in an emergency),
- Blankets,
- Flashlights,
- Radio (operated by batteries),
- Batteries for flashlight and radio (note: batteries should be replaced annually to assure freshness),
- Water (unless there is a water bubbler that can be used with no electricity), and
- Snack crackers, dried fruit, etc. - a source of food that will not go bad.

3.4.6 Flooding

Flooding may occur at or en-route to and from the Site and may be the result of weather conditions or due to thawing of ice and snow (especially in the Spring).

In the event flooding occurs:

- Stay tuned to NOAA Weather Radio All Hazards, your local radio and TV stations (i.e., The Weather Channel) for updates, watches, warnings or emergency instructions.
- Know the Coastal Evacuation Route for coastal area or an inland area with chronic flooding
- If the waters start to rise inside before you have evacuated, retreat to higher ground, including the roof. Use cell phone or landline to call for help. Take a flashlight and a portable radio. Then, wait for help. Do not try to swim to safety; wait for rescuers to come to you.
- Avoid flooded areas. Do not attempt to cross any flooded areas in a vehicle or on foot. Floodwaters may be deeper than they look.
- Avoid low-lying areas like ditches, creeks, and rivers.
- Before entering or re-entering a building, check for any signs of structural damage.
- When entering a building, do not use matches, lighters, or open flame. Use a flashlight only.
- After a flood, steps and floors are often slippery with mud and covered with debris, including nails and broken glass. Be careful walking around.

3.4.7 Snow/Freezing Rain

If a winter storm “watch” is issued for your area, it means that conditions are right for severe weather. If a winter storm “warning” is issued, it means that severe weather exists and may be moving into your area. Stay tuned to local weather information for updates on changing conditions. If a winter storm “warning” is issued for your area, stay indoors and travel only if it is absolutely necessary.

If a snow or ice storm occurs while at work, BC personnel should stay or leave at his or her own discretion. If you must travel during serious winter weather, do the following:

- Keep your gas tank full.



- Be sure your car is winterized with the proper anti-freeze.
- Keep survival supplies in your trunk.
- Let someone know your destination and the exact route you will be taking, in case you become stranded.

If you become stranded, stay with your car. Start your car and let it run with the heater on for approximately 10 minutes per hour. Be sure the exhaust pipe is clear of snow. When your car is running, leave the dome light on so that it is easier for someone to see you. Keep a window open a crack that is not exposed to strong winds. Move your arms and legs frequently to help keep blood circulating.

Avoid downed power lines. If power lines contact your car, stay inside until professional rescuers arrive. Most cars are insulated, providing protection from electricity as long as you avoid contact with metal parts of the car. Similarly, avoid rescuing anyone from a car that has encountered downed power lines.

When conducting Site activities in snow/freezing rain conditions, exposure to the elements should be limited. This is particularly important for the extremities such as hands/fingers, feet/toes, and the face/nose. See Section 3.3.3 for information about Cold Stress signs, symptoms and treatment.

3.5 Biological Hazards

The following biological hazards have been identified and may be encountered during scheduled field activities:

- | | | |
|--|--|---|
| <input type="checkbox"/> Bloodborne Pathogens/Sanitary Waste | <input checked="" type="checkbox"/> Rodents | <input checked="" type="checkbox"/> Other Mammals/Predators |
| <input checked="" type="checkbox"/> Venomous Insects | <input checked="" type="checkbox"/> Mosquitoes | <input checked="" type="checkbox"/> Poisonous Plants |
| <input type="checkbox"/> Fire Ants (Venomous Insects) | <input checked="" type="checkbox"/> Ticks | <input type="checkbox"/> Phragmites |
| <input checked="" type="checkbox"/> Spiders/Scorpions | <input type="checkbox"/> Pets/Farm Animals | <input type="checkbox"/> Snakes |
| <input type="checkbox"/> Alligators | <input type="checkbox"/> Chiggers | <input type="checkbox"/> Other: |

If any biological hazards are identified at the site, workers in the area will immediately notify the SSO and nearby personnel.

3.5.1 Venomous Insects

Common examples include bees, fire ants and wasps. Avoid contact with insects and their hives. If stung, remove the stinger by gently scraping it out of the skin (do not use tweezers). If the worker is stung by an insect, immediately apply an ice pack to the affected area and wash area with soap and water and apply antiseptic. If an allergic reaction occurs, contact emergency medical services for appropriate treatment. Seek medical attention immediately if you are allergic to venomous stings such as bees or if anaphylaxis symptoms are present.

3.5.2 Spiders/Scorpions

The black widow and brown recluse spiders are the most venomous. Avoid contact with spiders and scorpions and areas where they may hide. They favor dark hiding places. Inspect clothing and shoes before getting dressed. Wear gloves and safety shoes when working with lumber, rocks, inspecting buildings, etc. Signs and symptoms of bites include: headache, cramping pain/muscle rigidity, rash and/or itching, nausea, dizziness, vomiting, weakness or paralysis, and convulsions or shock. Wash bite



area with soap and water and apply antibiotic cream. Contact emergency medical services if allergic reaction or severe symptoms occur.

3.5.3 Mosquitoes

Mosquitoes may transmit diseases such as West Nile Virus. Symptoms of West Nile Virus include: fever, headache, tiredness, body aches, and occasional rash. Avoid mosquito bites by wearing a long sleeved shirt and long pants. Apply insect repellent to clothes and/or skin (if FDA approved for topical use). Report any dead birds in the area to local health officials. Mosquitoes are most active from dusk to dawn.

3.5.4 Ticks

Ticks are known to carry disease-causing microbes and the potential for transmission of these microbes and related diseases increases the longer a tick has been embedded following a bite. These diseases include, but are not limited to, Lyme disease and Rocky Mountain Spotted fever as the most common. Ticks are found throughout the United States and come in varying sizes from small, medium to large depending on their stage in life; however, deer ticks are known to be small around the size of a pin-point. Habitats range from tall grassy to woodland areas. Whenever possible, avoid areas likely to be infested with ticks during the spring and summer months.

When a potential tick habitat is identified, the following controls should be implemented:

- Ask the question of your PM if the potential tick habitat area needs to be accessed, prior to proceeding, making the attempt to remove the identified hazard (potential of tick exposure).
- If you are unable to remove the hazard, see if there are other options to reduce the exposure potential such as asking the PM or client whether the area can be cleared or mowed prior to entering.
- Even with a reduced exposure potential, exposure control precautions must be taken prior to entering the area. These include, but are not limited to:
 - Wear light-colored clothing so ticks will be visible on the surface.
 - Wear a long-sleeved shirt and Not only tuck pants into socks/boots but also tuck your shirt into your pants.
 - Persons with long hair should tie their hair back to minimize the potential for ticks to nestle in the scalp.
 - Use an FDA-approved insect repellent that contains DEET or other insect repellents that are known to contain chemicals/products (picaridin, Oil of Lemon Eucalyptus, para-methanesiol, etc.) to address ticks specifically.
 - In areas known to have high-tick populations don clothing that is pre-treated with tick repellent such as Permethrin. If pre-treated clothing is not available, don tyvek suits prior to entering the area and immediately removing them following exposure. Please note that using Tyvek suits may increase the risk of heat stress conditions so extra precautions should be taken, such as more frequent breaks and drinking plenty of fluids

Following exposure:

- Separate clothing and PPE that has been exposed to ticks for disposal or cleaning.
- Conduct a thorough check immediately following exposure.
- Shower as soon possible after being outdoors. Consider having a second person perform a tick check on you; it is difficult to see what is behind you.



If a tick is embedded in the skin, use pointy tweezers to grasp the tick's head (near the skin) and pull straight out. Consider saving the removed tick for potential future laboratory analysis. Once the tick-bite area has been treated using standard first-aid measures, notify your SM of the incident. Incident Intervention may be offered as an added first-aid measure to assist employee in monitoring for signs/symptoms of tick-borne diseases.

Signs of Lyme disease include a reddish "bull's-eye" around the affected area approximately a week after the bite. Symptoms include headache, fever, and muscle/joint pain. Persons suspecting infection should immediately notify their SM or the BC Injury Risk Manager.

3.5.5 Poisonous Plants

Common examples include poison ivy, poison oak and poison sumac. Avoid contact. Long-sleeved shirts and pants will allow some protection against inadvertent contact. If contact occurs, immediately wash the affected area thoroughly with soap and water. If an allergic reaction occurs, seek the care of a medical professional.

Poison Ivy grows in many forms including groundcover, shrub or is a trailing or climbing woody vine with leaves that are each divided into three broad, pointed leaflets found throughout the United States (US) with the exception of California, Alaska and Hawaii. The leaflets are commonly dark glossy green on top and slightly hairy underneath. They produce small yellowish or greenish flowers followed by berry-like drupes.



Poison Oak is a member of the same family as poison ivy and has a very similar appearance; however, not as widespread. There are 2 species found in the US: Eastern Poison Oak and Western Poison Oak. Both species of poison oak has leaves divided into three leaflets and generally has three to seven distinct lobes. Typically, they are a shrubby type plant that can grow to eight feet in height, or sometimes can be a climbing plant. Colors range and from bronze, bright green, yellow-green or red as the seasons change and may also contain greenish-white or tan berries.



Poison Sumac is a deciduous woody shrub or small tree found in the eastern United States in swamp or other wet area, pine woods, and shady hardwood forest habitats. Poison sumac grows up to 20 feet with leaves consist of 7–13 leaflets (always an odd number). Distinctive features include reddish stems and petioles. Leaflets are elongated, oval, and have smooth margins. Poison sumac also produces clusters of small berries that are white or grey.



The best way to prevent exposure is the ability to recognize these plants. Conduct an initial survey of the area to determine if the plants are present in the work area, and avoid contact with them.

If plants are located and work must be conducted in that area, speak with your PM or Client about having the plants removed if possible. If this is not possible, wear long sleeved shirts, gloves, and a heavy material type pants. Remember not to touch contaminated clothing. There are products available that can be applied to exposed skin, similar to sunscreen products, prior to working around the plants. Tyvek suits may be another option used at the wearer's discretion to keep poisonous plant oils from getting on clothing. Please note that using Tyvek suits may increase the risk of heat stress conditions so extra precautions should be taken, such as more frequent breaks and drinking plenty of fluids

3.5.6 Other Mammals/Predatory Animals

Animals such as stray dogs, bears, or wild predators (i.e., cougars or coyotes) may pose an attack hazard.

Do not attempt to enter or work in an area if you observe an aggressive animal or predator in that area. If you are working and an aggressive animal or predator moves into your area, then slowly back away in a non-threatening manner. In order to avoid such encounters, use the buddy system and make noise when working in areas where such animals may be present.



Section 4

Personal Protective Equipment

A hierarchical approach that employs engineering and administrative controls including Personal Protective Equipment (PPE) will be utilized to mitigate hazards likely to be encountered during the performance of the project scope of work. Because of this hazard management approach, PPE will be required for site personnel. The amount and type of PPE used will be based on the nature of the hazard encountered or anticipated.

Dermal protection, primarily in the form of chemical-resistant gloves and coveralls, will be worn whenever contact with chemically affected materials (e.g., soil, groundwater or sludge) is anticipated. Respiratory protection will be utilized when an airborne hazard has been identified using real-time air monitoring devices, or as a precautionary measure in areas designated by the SM or SSO.

Based on the hazards identified for this project, the following levels of PPE will be required and used. Changes to the specified levels of PPE will not be made without the approval of the SSO after consultation with the SM.

4.1 Level D Protection

In general, site activities will commence in Level D PPE unless otherwise specified, or if the SSO determines on-site that a higher level of PPE is required. Air monitoring of employee breathing zones will be routinely conducted using real-time air monitoring devices to determine if upgrading to Level C PPE is necessary. Level D PPE will be permitted as long as air monitoring data indicates that airborne concentrations of chemicals of concern are maintained below the site-specific action levels defined in Section 5. Level A or B PPE is not anticipated and is therefore not addressed in this plan. If Level A or B PPE is necessary, this HASP will be revised to reflect changes as appropriate.

The following is the minimum PPE required to conduct activities at the site:

- Work shirt and long pants,
- ASTM- approved steel/safety-toed boots,
- ANSI-approved safety glasses, and
- ANSI-approved (Class 2 or 3) High-visibility traffic safety vest or outerwear

The following additional task-specific PPE should be donned as appropriate:

- ANSI-approved hard hat when working around heavy equipment, during ISCO activities when within construction zone, during well abandonment or when overhead hazards are present.
- Hearing protection with a Noise Reduction Rating (NRR) of 28 or above when working around operating equipment, or other environment where excessive noise exposure is a potential.
- Sturdy work gloves (e.g., leather, Kevlar, others as appropriate) when hand abrasion, cuts or puncture is a potential.
- Outer nitrile gloves (4 mil or thicker) and inner nitrile surgical gloves during groundwater monitoring events when direct contact with chemically affected soils or groundwater is



anticipated (nitrile surgical gloves may be used for collecting or classifying samples as long as they are removed and disposed of immediately after each sampling event).

- Safety shoes/boots with protective over-boots or knee-high PVC polyblend boots when direct contact with chemically affected soils is anticipated.
- US Coast Guard (USCG) approved Personal Flotation Device (PFD) when working within 6-feet of water's edge.

4.2 Stop Work Conditions

If air monitoring indicates that the site-specific action levels defined in Section 5.3 are exceeded, activities will cease, and personnel must evacuate the designated Exclusion Zone. The PM and SM will be contacted immediately.

Work will also cease if unanticipated conditions or materials are encountered or if an imminent danger is identified. The SSO will immediately contact the SM for consultation.



Section 5

Air Monitoring Plan

Air monitoring will be conducted as outlined in this Section during the following activities:

- Manhole cover removal and when working around open manhole (multi-gas),
- Well vault/cap opening,
- Water level gauging
- Monitoring well development/purge/sampling activities (note Multi-gas additionally required during post-ISCO event sampling).
- During completion of intrusive activities such as drilling (well abandonment), hand auguring, hydro-excavation, and concrete cutting/removal, and
- During remedial activities (ISCO, slab demolition and soil cover placement).

Real-time air monitoring devices will be used to analyze airborne contaminant concentrations approximately every 15 minutes in the workers' breathing zones while workers are in the designated Exclusion Zone, or when task or exposure conditions change (whichever frequency is less). If elevated concentrations are indicated, the monitoring frequency will be increased, as appropriate.

Background concentrations will be determined at the beginning of each work shift by collecting several instrument readings upwind of the scheduled activities. Alternatively, background levels can be determined by collecting readings from a nearby (upwind) area that can reasonably be considered unaffected by site activities.

Real-time measurements will be made as near as feasible to the breathing zone of the worker with the greatest exposure potential in each active work area. If authorized by the SM, real-time measurements may cease being taken when sufficient historical data is generated to warrant its cessation. Air monitoring will be reinstated if potential exposure conditions change.

The equipment will be calibrated daily, and the results will be recorded on BC's Air Monitoring Form. The results of air monitoring will also be recorded on the Air Monitoring Form and will be retained in the project files following completion of field activities. A copy of the Air Monitoring Form is located in Appendix A.

5.1 Monitoring Instruments

A calibrated photoionization detector (PID) with a lamp strength of 11.7 eV or flame ionization detector (FID) will be used to monitor changes in exposure to volatile organic compounds (VOCs). During pos-ISCO groundwater monitoring and when observing sewer inspection activities, a multi-gas monitoring device will be used to verify that atmospheric conditions that include concerns with hydrogen sulfide, oxygen levels and lower explosive limit are acceptable for performing Formal dust monitoring will not be required for activities outlined above based on activity's potential to generate dust and expectation that subcontractor(s) will implement applicable controls to mitigate the generation of dusts as required by OSHA Respirable Crystalline Silica Standard (1910.1153/1926.1053).



The SSO, or designee, will perform routine monitoring during site operations to evaluate concentrations of target constituents as defined above in employee breathing zones. If concentrations are detected above or outside predetermined action levels, specified in Section 5.2, the procedures found in Section 4 of this HASP will be followed.

5.2 Site-Specific Action Levels

The following action levels were developed for exposure monitoring with real-time air monitoring instruments. Air monitoring data will determine the required respiratory protection levels at the site during scheduled intrusive activities. The action levels are based on sustained readings indicated by the instrument(s). Air monitoring will be performed and recorded at up to 15-minute intervals. Note that if 3rd party contractor is performing air monitoring that meets or exceeds criteria defined here-in and will provide BC copy of data in a timely manner, this may be accepted instead of BC documentation for respective activities.

If elevated concentrations are indicated, the monitoring frequency will be increased, as appropriate. If during this time, sustained measurements are observed, the following actions will be instituted, and the PM and SM will be notified. For purposes of this HASP, sustained readings are defined as the average airborne concentration maintained for a period of 5 minute above established background levels.

VOC – Action Levels		
Activity	Action Level	Level of Respiratory Protection
Groundwater monitoring (gauging, development, purging and sampling). Soil-intrusive activities – including ISCO, slab demolition and soil cover placement.	< 1.0 ppm above background	Level D: No respiratory protection required.
	> 1.0 ppm above background	Increase engineering control efforts and re-monitor effectiveness. If concentrations remain elevated, cease operations and evacuate work area upwind.. Contact SM immediately to discuss next steps.

Multiple Gases – Action Levels		
Activity	Action Level	Level of Respiratory Protection
Opening or working around open Manholes and Post-ISCO Groundwater Monitoring	O ₂ (>19.5%; <23.5%) H ₂ S (<10 ppm) LEL (<10%) CO (<25 ppm)	Level D: No respiratory protection required.
	O ₂ (<19.5%; >23.5%) H ₂ S (>10 ppm) LEL (>10%) CO (>25 ppm)	Cease operations and evacuate work area. Contact SM and PM immediately.



5.2.1 Opening Wells and Well Vaults

When VOCs are identified as part of a Site's potential chemicals of concern, direct-reading instrumentation will be used to monitor any work in or immediately around a well or well vault. The well vault (outer protective casing/cover and/or well plug) will be opened carefully with personnel staying upwind as much as possible and then left open for a minimum of three (3) minutes to allow the well to vent. Please note that if there are other established protocols that differ from 3 minutes; the more protective time increment will be followed. Personnel should stay upwind as much as possible while working in and around the vault. Additional information regarding direct-reading instrumentation, associated action levels and documentation requirements is outlined within the projects Air Monitoring Plan included as Section 5 of this plan.



Section 6

Site Control Measures

The SSO will conduct a safety inspection of the work site before each day's activities begin to verify compliance with the requirements of the HASP. Results of the first day's inspection will be documented on the Site Safety Checklist. A copy of the checklist is included in Appendix B. Thereafter, the SSO should document unsafe conditions or acts, along with corrective action, in the project notes or field logbook.

Procedures must be followed to maintain site control so that persons who may be unaware of site conditions are not exposed to hazards. The work area will be barricaded by tape, warning signs, or other appropriate means. Site equipment or machinery will be secured and stored safely.

Access to the specified work area will be limited to authorized personnel. Only field personnel and subcontractors meeting the training requirements as defined within this HASP will be admitted to the work site. Visitors may be escorted into the work area if they have received the orientation training as defined within this HASP, donned appropriate PPE and all activities within the area have ceased. All personnel entering the work area, including visitors, are required to sign the H&S Plan Review Acknowledgement Form of this HASP, indicating they have read and accepted the H&S practices outlined in this plan.

In some instances, it may be necessary to define established work zones: an Exclusion Zone, a Contamination Reduction Zone and a Support Zone. Work zones may be established based on the extent of anticipated contamination, projected work activities, and the presence or absence of non-project personnel. The physical dimensions and applicability of work zones will be determined for each area based on the nature of job activity and hazards present. Within these zones, prescribed operations will commence using appropriate PPE. Movement between zones will be controlled at checkpoints.

Considerable judgment is needed to maintain a safe working area for each zone, balanced against practical work considerations. Physical and topographical barriers may constrain ideal locations. Field measurements combined with climatic conditions may, in part, determine the control zone distances. Even when work is performed in an area that does not require the use of chemical-resistant clothing, work zone procedures may still be necessary to limit the movement of personnel and retain adequate site control.

Personnel entering the designated Exclusion Zone should exit at the same location. There must be an alternate exit established for emergency situations. In all instances, worker safety will take precedence over decontamination procedures. If decontamination of personnel is necessary, exiting the site will include the decontamination procedures described in the following section.



Section 7

Decontamination Procedures

Despite protective procedures, personnel may come in contact with potentially hazardous compounds while performing work tasks. Decontamination will take place in the decontamination area identified on-site and needs utilize an Alconox®, Liqui-Nox® or Trisodium Phosphate (TSP) wash followed by a rinse with clean water.

Workers, PPE, sampling equipment and heavy equipment leaving the exclusion area will be inspected to determine the level of decontamination necessary to prevent the spread of potentially hazardous materials. Unnecessary equipment and support vehicles are to be left outside the designated Exclusion Zone so that decontamination will not be necessary.

Standard decontamination procedures for Levels C and D are as follows:

- equipment drop,
- boot cover and outer glove wash and rinse,
- boot cover and outer glove removal,
- suit removal,
- safety boot wash and rinse,
- inner glove wash and rinse,
- respirator removal,
- inner glove removal, and
- field wash of hands and face.

Site workers should employ only applicable steps in accordance with level of PPE worn and extent of contamination present. The SSO shall maintain adequate quantities of clean water to be used for personal decontamination (i.e., field wash of hands and face) whenever a suitable washing facility is not located in the immediate vicinity of the work area.

Disposable items will be disposed of in an appropriate container. Wash and rinse water generated from decontamination activities will be handled and disposed of properly. Non-disposable items (e.g., respirators) may need to be cleaned or sanitized before reuse. Each site worker is responsible for the maintenance, decontamination and sanitizing of their own PPE.

Used equipment may be decontaminated as follows:

- Remove adhered materials (e.g., dirt or mud) to increase the effectiveness of the decontamination process.
- An Alconox®, Liqui-Nox® or TSP and water solution may be used to wash the equipment.
- The equipment will then be rinsed with clean water until it is determined clean.

Each person must follow these procedures to reduce the potential for transferring chemically affected materials off-site.



Section 8

Training Requirements

Field Personnel, including subcontractors, conducting work in controlled areas of the site, must have completed the appropriate training as required by 29 CFR 1910.120. In addition, the designated SSO(s) will have completed the 8-hour Site Supervisor course, have current training in first aid and CPR along with any additional training appropriate to the level of site hazards.

Field personnel, subcontractors and visitors will receive a site orientation training that will include, but not necessarily be limited to, emergency procedures, site control, personnel responsibilities and the provisions of this HASP. Field Personnel, subcontractors and visitors will document that they have been briefed on the hazards identified at the site and that they have read and understand the requirements of this HASP by signing the HASP Acknowledgement Form attached as Appendix C.

A daily morning briefing, to cover safety procedures and contingency plans in the event of an emergency, is to be included with a discussion of the day's activities. It is expected that field personnel, subcontractors and visitors will participate in these meetings that will be recorded on the Daily Tailgate Safety Meeting Form. A copy of the Daily Tailgate Safety Meeting Form is included in Appendix D.



Section 9

Medical Surveillance Requirements

Field personnel, including subcontractors, who will or may work in an area designated as an exclusion zone must have fulfilled the appropriate medical monitoring requirements in accordance with 29 CFR 1910.120(f). Field Personnel, including subcontractors, entering an exclusion zone must have successfully completed an annual surveillance examination and/or an initial baseline examination within the last 12 months.

Medical surveillance is conducted as a routine program for BC field staff in accordance with the requirements of 29 CFR 1910.120(f). There will not be any special medical tests or examinations required for BC staff involved in this project.

A Hepatitis B vaccination will be offered to BC personnel before the person participates in a task where direct exposure to potentially infectious materials is a possibility (e.g., first aid or CPR). For personnel who have potential exposure to sanitary wastes, a current tetanus/diphtheria inoculation or booster is recommended.



Section 10

Contingency Procedures

Minimum emergency equipment maintained on-site will include a fully charged ABC dry chemical fire extinguisher, an adequately stocked first aid kit, and an emergency eyewash station (when corrosive chemicals are present). In addition, employees will consider maintaining the personal emergency supply items listed in Section 3.4: Natural Phenomena, as appropriate.

In the event of an emergency, site personnel will signal distress with three blasts of a horn (a vehicle horn will be sufficient), or another predetermined signal. Communication signals, such as hand signals, must be established where communication equipment is not feasible or in areas of loud noise.

It is the SSO's duty to evaluate the seriousness of the situation and to notify appropriate authorities. The first part of this plan contains emergency telephone numbers as well as directions to the hospital. Nearby telephone access must be identified and available to communicate with local authorities. If a nearby telephone is not available, a cellular telephone will be maintained on-site during work activities. The operation of the cellular phone will be verified to confirm that a signal can be achieved at the work location.

The SSO, or designee, should contact local emergency services in the event of an emergency. After emergency services are notified, the PM and SM will be notified of the situation as soon as possible. If personal injury, property damage or equipment damage occurs, the PM and BC Risk Manager will be contacted as soon as practicable. An Incident Investigation Report will be completed within 24 hours by the SSO, or another designated person. A copy of the Incident Investigation Report is included in Appendix E.

10.1 Injury or Illness

If an exposure or injury occurs, work will be temporarily halted until an assessment can be made to determine it is safe to continue work. The SSO, in consultation with the SM, will make the decision regarding the safety of continuing work. The SSO will conduct an investigation to determine the cause of the incident and steps to be taken to prevent recurrence.

In the event of an injury, the extent and nature of the victim's injuries will be assessed and first aid/CPR will be rendered as appropriate. If necessary, emergency services will be contacted or the individual may be transported to the nearby medical center. The mode of transportation and the eventual destination will be based on the nature and extent of the injury. A hospital route map is presented at the front of this HASP.

In the event of a life-threatening emergency, the injured person will be given immediate first aid and emergency medical services will be contacted by dialing the number listed in the Critical Project Information section at the beginning of this plan. The individual rendering first aid will follow directions given by emergency medical personnel via telephone.



10.2 Vehicle Collision or Property Damage

If a vehicle collision or property damage event occurs, the SSO, or designee, will contact the BC Risk Manager for appropriate action.

10.3 Fire

In the event of fire, the alarm will be sounded and site personnel will evacuate to a safe location (preferably upwind). The SSO, or designee, should contact the local fire department immediately by dialing 911. When the fire department arrives, the SSO, or designated representative, will advise the commanding officer of the location and nature of the fire, and identification of hazardous materials on-site. Only trained, experienced fire fighters should attempt to extinguish substantial fires at the site. Site personnel should not attempt to fight fires, unless properly trained and equipped to do so. Site personnel should not attempt to fight a fire if it poses a risk to their personal safety.

Note that smoking is not permitted in controlled areas (e.g., exclusion or contamination reduction zones), near flammable or combustible materials, or in areas designated by the facility as non-smoking areas.

10.4 Underground Utilities

In the event that an underground conduit is damaged during subsurface work, mechanized equipment will immediately be shut off and personnel will evacuate the area until the nature of the piping can be determined. Depending on the nature of the broken conduit (e.g., natural gas, water, or electricity), the appropriate local utility will be contacted.

10.5 Site Evacuation

The SSO will designate evacuation routes and refuge areas to be used in the event of a site emergency. Site personnel will stay upwind from vapors or smoke and upgradient from spills. If workers are in an Exclusion or Contamination Reduction Zone at the start of an emergency, they should exit through the established decontamination corridors, if possible. If evacuation cannot be done through an established decontamination area, site personnel will go to the nearest safe location and remove chemically-affected clothing there or, if possible, leave it near the Exclusion Zone. Personnel will assemble at the predetermined refuge following evacuation and decontamination. The SSO, or designated representative, will count and identify site personnel to verify that all have been evacuated safely.

10.6 Spill of Hazardous Materials

If a hazardous material spill occurs, site personnel should locate the source of the spill and determine the hazard to the H&S of site workers and the public. Attempts to stop or reduce the flow should only be performed if it can be done without risk to personnel.

Isolate the spill area and do not allow entry by unauthorized personnel. De-energize sources of ignition within 100 feet of the spill, including vehicle engines. Should a spill be of the nature or extent that it cannot be safely contained, or poses an imminent threat to human health or the environment, an emergency cleanup contractor will be called out as soon as possible. Spill containment measures listed below are examples of responses to spills.

- Right or rotate containers to stop the flow of liquids. This step may be accomplished as soon as the spill or leak occurs, providing it is safe to do so.



- Sorbent pads, booms, or adjacent soil may be used to dike or berm materials, subject to flow, and to solidify liquids.
- Sorbent pads, soil, or booms, if used, must be placed in appropriate containers after use, pending disposal.
- Contaminated tools and equipment shall be collected for subsequent cleaning or disposal.



Section 11

Documentation

The implementation of the HASP must be documented on the appropriate forms (see appendices) to verify employee participation and protection. In addition, the regulatory requirements must be met for recordkeeping on training, medical surveillance, injuries and illnesses, exposure monitoring, health risk information and respirator fit-tests. Documentation of each BC employee's H&S records is maintained electronically by the H&S Data Manager.

H&S documentation and forms completed, as specified by this plan, are to be retained in the project file.

Other relevant project-specific H&S documents, such as SDSs or client-specified procedures, will be attached to this HASP in Appendix F.



Appendix A: Air Monitoring Form



A



AIR MONITORING FORM

Page ____ of ____

Air Monitoring Documentation/Log

Project Name:	Project Number:
---------------	-----------------

Site Location:

Employee/Company Performing Air Monitoring (Name/Signature):	Date:
--	-------

Instrument(s)

Manufacturer/Model:	Manufacturer/Model:
---------------------	---------------------

Does the instrument(s) have a current calibration per the manufacturer's instructions? Yes No

Was the instrument(s) field checked (i.e. bump tested or field calibrated) per the manufacturer's instructions? Yes No

Remarks:

Monitoring Data

Time	Location and Activity	P/FID (ppm)	Colorimetric Tubes (PPM)	RAM (mg/m ³)	Multi-Gas Detection			
					%LEL	H ₂ S	O ₂	Other





AIR MONITORING FORM

Page ____ of ____

Air Monitoring Documentation/Log (continued)

Time	Location and Activity	P/FID (ppm)	Colorimetric Tubes (PPM)	RAM (mg/m ³)	Multi-Gas Detection			
					%LEL	H ₂ S	O ₂	Other



Appendix B: Site Safety Checklist



Appendix C: Acknowledgement Form



C



ACKNOWLEDGMENT FORM

H&S Plan Review and Site Orientation Acknowledgement

Project Name:	Project Number:
---------------	-----------------

Site Location:

Employee/Company Performing Review (Name/Signature):	Date of Review:
--	-----------------

BC Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on this Safety Plan and understand the potential hazards/ controls for the work to be performed.

Print	Sign	Date	Print	Sign	Date

Subcontractor Acknowledgment:

Subcontractors are responsible for developing, maintaining, and implementing their own health and safety programs, policies, procedures and equipment as necessary to protect their workers, and others, from their activities. Subcontractors should operate equipment in accordance with their standard operating procedures as well as manufacturer's specifications. Any project monitoring activities conducted by BC at the site shall not in any way relieve subcontractors of their critical obligation to monitor their operations and employees for the determination of exposure to hazards that may be present at the site and to provide required guidance and protection. If requested, subcontractors will provide BC with a copy of their own Safety Plan for this project or other health and safety program documents for review.

BC's Safety Plan has been prepared specifically for this project and is intended to address health and safety issues solely with respect to the activities of BC's own employees at the site. A copy of BC's Safety Plan may be provided to subcontractors in an effort to help them identify expected conditions at the site and general site hazards. The subcontractor will remain responsible for identifying and evaluating hazards at the site as they pertain to their activities and for taking appropriate precautions. For example, BC's H&S Plan does not address specific hazards associated with tasks and equipment that are particular to the subcontractor's scope of work and site activities. (e.g., operation of a drill rig, excavator, crane or other equipment). Subcontractors are not to rely on BC's Safety Plan to identify all hazards that may be present at the site. Subcontractor personnel are expected to comply fully with subcontractor's H&S Plan and to observe the minimum safety guidelines applicable to their activities, which may be identified in the BC Safety Plan. Failure to do so may result in the removal of the subcontractor or any of the subcontractor's workers from the job site.

Print	Sign	Date	Print	Sign	Date



Appendix D: Tailgate Meeting Form



D



TAILGATE MEETING FORM

Page ____ of ____

Tailgate Meeting Participation Acknowledgement

Project Name:	Project Number:
Site Location:	
Employee/Company Performing Briefing (Name/Signature):	Date of Briefing:

PAUSE - Plan of the Day

(Describe the activities that are planned to be performed today. Discuss what is the worst that could happen?)

THINK - Potential Hazards and Controls

(Describe the potential hazards and controls that may be associated with planned activities. Are all necessary precautions in place?)

Hazard Type	Site-Specific Hazard Discussion	Discussed Controls
<input type="checkbox"/> Physical		
<input type="checkbox"/> Natural		
<input type="checkbox"/> Chemical		
<input type="checkbox"/> Biological		
<input type="checkbox"/> Electrical		
<input type="checkbox"/> Other (specify):		

GO - Only when work can be performed safely!

Important Notice to Subcontractor(s):

Subcontractors are responsible for developing, maintaining, and implementing their own health and safety programs, policies, procedures and equipment as necessary to protect their workers, and others, from their activities. Subcontractors shall operate equipment in accordance with their standard operating procedures as well as manufacturer's specifications. Any project monitoring activities conducted by BC at the Site shall not in any way relieve subcontractors of their critical obligation to monitor their operations and employees for the determination of exposure to hazards that may be present at the Site and to provide required guidance and protection. If requested, subcontractors will provide BC with a copy of their own H&S Plan for this project or other health and safety program documents for review.

This FWSP has been prepared specifically for this project and is intended to address health and safety issues solely with respect to the activities of BC's own employees at the site. A copy of the FWSP may be provided to subcontractors in an effort to help them identify expected conditions at the site and general site hazards. The subcontractor shall remain responsible for identifying and evaluating hazards at the site as they pertain to their activities and for taking appropriate precautions. For example, FWSP does not address specific hazards associated with tasks and equipment that are particular to the subcontractor's scope of work and site activities. (e.g., operation of a drill rig, excavator, crane or other equipment). Subcontractors are not to rely on FWSP to identify all hazards that may be present at the Site. Subcontractor personnel are expected to comply fully with subcontractor's Health and Safety Plan and to observe the minimum safety guidelines applicable to their activities which may be identified in the FWSP. Failure to do so may result in the removal of the subcontractor or any of the subcontractor's workers from the job site.



TAILGATE MEETING FORM

Field Personnel Acknowledgement:

The following signatures indicate that these personnel (BC and Subcontractors) have read and/or been briefed on this Safety Plan and understand the potential hazards/controls for the work to be performed and have reviewed these hazards and/or task-specific hazards prior to commencing activities on a daily basis.

Print	Sign	Date	Print	Sign	Date



Appendix E: Preliminary Incident Investigation Form





PRELIMINARY INVESTIGATION FORM

Page ____ of ____

Privileged and Confidential – Attorney Work Product

Instructions: The form has been developed to support the incident investigation and reporting process and should be maintained under Privileged and Confidential protocols and never distributed outside of Brown and Caldwell. If shared via email internally, transmittal should be directed to BC Legal Counsel with other employees copied as applicable. Note that this form is for preliminary investigation purposes and a final report should be completed within the BC Electronic System within a reasonable time following the incident and preliminary assessment and corrective action activities.

General Information

Date/Time of Incident Occurred:	Project/Work Area Incident Occurred:
---------------------------------	--------------------------------------

Incident Classification:

Close Call/Near Miss
 Injury/Illness
 Property Damage
 Environmental
 Vehicle
 Security
 Fire/Explosion
 Chemical/Hazardous Atmosphere Exposure
 Other:

Incident/Close Call Immediate Response:

First Aid Provided
 Incident Intervention Initiated
 Facility Emergency Services Notified
 Site Evacuated
 Off-site Local Emergency Services Notified – Service:
 Off-site Transport for Medical Attention - Method of Transport:
 Other:

Facility/Site Regulated Under Either of the Following:

Mining Safety and Health Administration (MSHA)
 Federal Railroad Administration (FRA)

Personnel Involved (Company/Name):

Witnesses (Company/Name):

Notifications

Date/Time Incident/Close Call Reported:	Incident/Close Call Reported to Whom:
---	---------------------------------------

Date/Time Incident/Close Call Reported to BC:	Incident/Close Call Reported to Whom at BC:
---	---

Date/Time Client Notified of Incident/Close Call	Method Client Notified: <input type="checkbox"/> Phone Call <input type="checkbox"/> Email <input type="checkbox"/> Other:
--	---

Field Investigation

Field Investigation Lead (Company/Name)	Date/Time Incident Investigated:
---	----------------------------------





PRELIMINARY INVESTIGATION FORM

Page ____ of ____

Privileged and Confidential – Attorney Work Product

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General Information	
Date/Time of Incident Occurred:	Project/Work Area Incident Occurred:
Task/Activities Performed at time of Incident:	
Brief Description of Incident:	

Field Investigation (Continued)	
Witness(s) Statement (use additional sheets as applicable):	
Technical Expert(s) Consulted: <input type="checkbox"/> Yes <input type="checkbox"/> No	Technical Expert(s) (Company/Name):
Technical Expert(s) Statement (use additional sheets as applicable):	
Root-Cause Analysis	



PRELIMINARY INVESTIGATION FORM

Page ____ of ____

Privileged and Confidential – Attorney Work Product

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Field Investigation (Continued)

Substandard Actions:

What substandard actions caused or could have caused the accident/incident?

- | | | |
|--|--|---|
| <input type="checkbox"/> Failure to recognize hazard(s) | <input type="checkbox"/> Improper lifting | <input type="checkbox"/> Servicing equipment in operation |
| <input type="checkbox"/> Failure to use equipment or use it properly | <input type="checkbox"/> Improper loading, placement, or position for task | <input type="checkbox"/> Using defective equipment |
| <input type="checkbox"/> Failure to use PPE or use it properly | <input type="checkbox"/> Performing excessive repetitive activities | <input type="checkbox"/> Unclassified (not determined) |
| <input type="checkbox"/> Failure to warn, secure, or barricade | <input type="checkbox"/> Operating equipment without authority | <input type="checkbox"/> Other: |
| <input type="checkbox"/> Horseplay | <input type="checkbox"/> Removing or making safety devices inoperable | |

State the actions on the part of the employee or others that contributed to the occurrence of the accident/incident.

Substandard Conditions:

What substandard conditions caused or could have caused the accident/incident?

- | | | |
|---|---|--|
| <input type="checkbox"/> Congested or restricted area | <input type="checkbox"/> Inadequate guards or barriers | <input type="checkbox"/> Poor housekeeping |
| <input type="checkbox"/> Defective tools, equipment, or materials | <input type="checkbox"/> Inadequate or excessive illumination | <input type="checkbox"/> Radiation exposures |
| <input type="checkbox"/> Fire or explosion hazards | <input type="checkbox"/> Inadequate ventilation | <input type="checkbox"/> Unclassified (not determined) |
| <input type="checkbox"/> Hazardous environmental conditions (vapors, dusts, etc.) | <input type="checkbox"/> Inadequate walking/working surfaces | <input type="checkbox"/> Other: |
| <input type="checkbox"/> High or low temperature exposures | <input type="checkbox"/> Noise Exposures | |

State the conditions that existed at the time of the accident (the specific control factors that were or may have been the direct or immediate cause or causes of the accident):



PRELIMINARY INVESTIGATION FORM

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Root-Cause Analysis (Continued)

Personal and Job Factors:

What personal and/or job factors caused or could have caused the accident/incident?

Personal Factors:

- Alcohol or drug influence (possible)
- Inattention
- Unclassified (not determined)
- Fatigue
- Rushing to complete work
- Other:
- Inadequate skill, capability, knowledge, or training

Job Factors:

- Inadequate engineering
- Inadequate planning or accelerated schedule
- Unclassified (not determined)
- Inadequate leadership/supervision
- Inadequate tools/equipment
- Other:
- Inadequate maintenance, wear, abuse, or misuse
- Inadequate work standards/procedures

State the influencing factors or underlying causes, either conditions or actions or both, that contributed to the accident/incident.

Remedial/Corrective Actions

- Equipment repair or replacement
- Install safety guard or device
- Use safer materials or equipment
- Improve design or construction
- Reinstruction or reprimand of personnel involved
- Develop and publish lessons learned
- Improve housekeeping
- Temporary/permanent reassignment of personnel
- Employee Re-training
- Improve PPE
- Work method change
- Unclassified (not determined)
- Removal of Employee from site
- Removal of Company from site
- Other:

Briefly describe the actions taken or planned to prevent recurrence of accident/incident - provide the implementation date and person responsible for any planned corrective action.



PRELIMINARY INVESTIGATION FORM

Page ____ of ____

Privileged and Confidential – Attorney Work Product

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Root-Cause Analysis (Continued)

[Empty area for Root-Cause Analysis]

Responsible Party (Company/Name):	Assigned Deadline for Implementation (Date/Time):
-----------------------------------	---



SITE SAFETY CHECKLIST

Page ____ of ____

Appendix F: Miscellaneous H&S Information

Appendix G: COVID-19 Addendum



COVID-19: H&S Plan Addendum

To assist in mitigating the 2019 Novel Coronavirus (COVID-19) potential exposure and transmission risks associated with conducting field operations on behalf of BC, this Standard Operating Procedure (SOP) has been developed to supplement existing project-specific controls and provide further guidance around expectations for field activities to be protective of BC employees, subcontractors, and client personnel to the extent possible. These interim procedures have been developed in consideration of the Hierarchy of Controls along with currently available Center for Disease Control (CDC), BC Centre for Disease Control (BCCDC), and World Health Organization (WHO) guidance. Due to the evolving nature of this pandemic, these procedures may be amended as additional guidance is made available by the various health organizations. This addendum is effective until further notice and will only be discontinued once the long-term impact of COVID-19 is better understood at which time these controls will be incorporated into BC's standard H&S Plans on some level. Note that this SOP does not cover the situation where a member of the field team tests positive for COVID-19 and related, potential, site/facility disinfection. If this situation develops, work activities are expected to stop and the project's Safety Manager contacted immediately for next-step planning, at a minimum.

WHAT IS COVID-19

COVID-19 is a new coronavirus that has not been previously identified and is not the same as the coronaviruses that commonly circulate among humans causing mild illness, like the common cold. People can catch COVID-19 from others who have the virus through their potential transmittal of small droplets via coughing/exhaling that can then be breathed-in by others and/or contact surfaces touched by others followed by subsequent contact with one's own eyes, nose, or mouth. Current symptoms reported for COVID-19 patients include, but may not be limited to, mild to severe respiratory illness with fever, cough, and difficulty breathing. Long-term effects are not known at this point in time; however, in some serious cases COVID-19 can be fatal. Currently, the CDC believes that symptoms of COVID-19 may appear in as few as 2 days or as long as 14 days after exposure to the virus.

PRE-FIELD MOBILIZATION REVIEW

Prior to moving forward with the guidance included within this SOP, Project Managers (PMs), or their designee, shall review the following questions with their project field teams to determine if they should proceed with scheduled field activities or delay field activities. If a team member answers "yes" to any of the following questions, the PM shall pause on proceeding with mobilizing and elevate engagement to their CSM, group/operations leader (or delegate), and Safety Manager for further discussion.

- Are there any federal, state, or local restrictions impacting ability to access the site? (Include consideration of limited access to restaurants, public restrooms, shelter in place mandates, or other mandatory closings/curfews)
- Does the client or the client's contractor have restrictions impacting ability to access the site?
- Does accessing the site for the team require air travel or other use of public transportation?
- Does any member of the field team express concern with proceeding with the activities and/or travel as being asked?

NOTE: Moving beyond these questions with field activities assumes that field team members, including subcontractor personnel, have indicated they are free of symptoms of COVID-19 for the 24-hours prior to field mobilization and have not knowingly been in contact with someone who has tested positive for COVID-19 within the prior 14-days. See additional reference to completing required COVID-19 Continued Work Testimony Form and conducting daily Wellness Checks in following procedures.

COVID-19: H&S Plan Addendum

During the course of the project, if someone identifies that they may be experiencing potential COVID-19 symptoms, have been diagnosed with COVID-19 or may have been exposed to COVID-19 as defined here-in, their exposure risk will be evaluated at that time based on the BC COVID-19 Protocol.

PROCEDURES

For projects where activities have been deemed necessary to proceed in the field (outside of an office environment), per review of the above questions and/or higher levels of engagement, this SOP will be added to the appendices of the project's existing H&S Plan and implemented, as applicable, for the work and environmental conditions. Please note that these procedures have been developed with consideration of the collection of environmental samples and sample quality concerns regarding use of disinfection products.

- Field personnel including subcontractors shall sign a one-time COVID-19 Continued Work Testimony Form regarding their commitment to report signs of flu-like symptoms, diagnosis of COVID-19 or known exposure to COVID-19. Thereafter, on a daily basis, they will sign a tailgate wellness log. Note, if this form has been signed for other BC projects, please provide a copy to the Project Manager for project-specific files.
- Temperature screening as a site entry requirement is being implemented by some clients and is allowable during a pandemic under employment laws. Where temperature screening is not currently used, conduct a daily Wellness Check utilizing the Tailgate Wellness Check Log as part of tailgate meeting each morning prior to the day's operations starting. Field personnel, including subcontractors, indicating they have flu-like symptoms and/or prior "close contact" with COVID-19 must contact their Supervisor, HR Partner (BC Employee), and BC Project Manager immediately for further guidance.
- Field personnel shall implement social distancing to 6 ft (2m) with co-workers, other on-site personnel, client representatives, field equipment supplier courier(s), laboratory sample courier(s), common carrier(s) (e.g., FedEx), etc. If working in a as part of a multi-person team, individuals should work independently; however, eyesight and/or constant communications will remain to meet buddy system requirements. Note exemption for emergency or first-aid care if required provided assisting personnel have donned appropriate PPE.
 - Do not shake hands or making personal contact with other people to extent possible.
 - BC personnel will travel with no more than 1 person per vehicle, if there is an inability to acquire multiple field vehicles (fleet or rental), then no more than 2 BC personnel should be in a single vehicle that is utilized for work purposes.
 - The number of people within a project office space (i.e. construction trailer) should be limited based on the ability to maintain 6 ft (2 m) separation. Daily tailgate meetings and other larger group meetings should be conducted outdoors in open space to allow for the ability to maintain social distancing requirements.
 - Before troubleshooting components and systems that require multiple personnel, field personnel must discuss options to effectively evaluate components/systems while maintaining the 6 ft. social distancing standoff. Examples of alternatives to working in proximity of each other include, but are not limited to:
 - Rotating personnel between terminals or panels (while ensuring to sanitize hands and/or disinfect work surfaces as appropriate); or

COVID-19: H&S Plan Addendum

- Sending one person to troubleshoot and having that person video conference the investigation to the team using a mobile device.
- Field personnel should presume that all surfaces in the field, temporary or long-term project office spaces, and supporting vehicle(s) (BC fleet or rental) are potentially infected and take applicable precautions including maintain an adequate supply of cleaning and disinfection products.
 - Interior surfaces in field-use vehicles subject to hand contact, including but not limited to steering wheel, shifter, seats (if not cloth) door handles, console, etc. should be disinfected to the extent possible prior to use and frequently throughout the workday using disinfectant wipes as directed by product label.
 - Routinely clean all frequently touched surfaces in temporary office/workspaces, such as workstations, countertops, tables, and doorknobs. Use the cleaning agents (e.g. disinfectant spray, bleach solution) that are usually used in these areas and follow the directions on the product label.
 - Disinfectants are not recommended for use on sample collection equipment and supplies to avoid inadvertently contaminating samples. These equipment/supplies should be disposed of following use or appropriately decontaminated as defined in other protocols included within the project-specific H&S Plan. Exceptions will be for disinfection of hands, phones, tablets and laptop computers, but only outside of the immediate sample collection area.
 - Additionally, disinfectants that are used on surfaces, should be used outside of the exclusion area (when applicable) and should be allowed to dry thoroughly prior to use.
- Emphasis shall be placed on maintaining an adequate supply of and using PPE that meets both task-specific requirements as defined in the project-specific H&S Plan and added COVID-19 protection, which includes at a minimum, the following:
 - Donning of disposable, nitrile gloves (gloves) for handling of disinfection products.
 - Donning of gloves when handling objects, sampling equipment, supplies, etc. that may have potentially been handled or will be handled by others.
 - When required to don gloves as part of task-specific PPE, consider wearing double gloves maintaining an inner layer through the task and disposing of the outer layer, as needed, between touching objects that others may or have handled.
 - If working with multiple people, responsibilities for supplies/equipment handling should be split to minimize the potential cross contamination of objects between field team members.
 - If providing first-aid or other emergency support to an injured person in the field, personnel are expected to follow the universal precautions requirements for such activities as otherwise defined within the H&S Plan.
- Field personnel should lather/scrub hands for at least 20-seconds (per CDC/BCCDC guidance) and then rinse with clean water and dry with paper towels. Do not rinse hands in a container holding pre-used water. Employees should utilize hand sanitizer (60% or greater alcohol content) if standard handwashing is not feasible. Note that if relying on hand sanitizer, additional supplies shall be available to clean hands of dirt prior to disinfection.

COVID-19: H&S Plan Addendum

- Field personnel are expected to follow good personal hygiene practices beyond washing hands that include, but may not be limited to, covering of mouth with arm for coughs or sneezes, turning head or stepping away from others for coughs/sneezes when possible, utilizing tissues with immediate disposal following use, etc.

- Adequate receptacles should be maintained on-site and/or within work vehicles to the appropriate disposal of used disinfection products, tissues, etc.

Note: "close contact" is defined as: a) being within approximately 6 feet (2 meters) of a COVID-19 case for a prolonged period of time; close contact can occur while caring for, living with, visiting, or sharing a healthcare waiting area or room with a COVID-19 case

Version Management:

Version No.	Date	Name	Changes
1	3/21/20	M/Bixby/S. Everman/K. Hoff	Initial SOP

Appendix H: Wellness Check Tailgate



Tailgate Wellness Check Log

DATE: _____

Instructions: If you agree with the statement add an "X" in response to each question below your name. If you do not agree, leave the box blank.

Printed Name of employee	Signature of employee/contractor	I do not currently have a fever, nor have had a fever within the past 24 hours (i.e., greater than 100.4 °F / 38 °C), respiratory symptoms, diarrhea, or other unexplained severe illness.	To the best of my knowledge, I have not had "close contact"* with someone with COVID-19 (within the last 14 days).

**Note: "close contact" is defined as:
a) being within approximately 6 feet of a COVID-19 case for a prolonged period of time; close contact can occur while caring for, living with, visiting, or sharing a healthcare waiting area or room with a COVID-19 case; or
b) having direct contact with infectious secretions of a COVID-19 case (e.g., being coughed or sneezed on by someone who has been diagnosed).*



Appendix I: COVID-19 Continued Work Testimony





COVID-19 Continued Work Testimony Form

Commitment Statement

I understand it is my responsibility to, and am committed to, report to both my Supervisor and BC Project Manager or Primary BC Point of Contact if any of the following apply to me while I am actively supporting and/or performing work on behalf of Brown and Caldwell:

Self-Monitoring Attestations

- I have been free of fever (100.4° F [38.0° C]) signs of a fever, and any other flu-like or cold-like symptoms for at least 24 hours, without the use of fever-reducing or other symptom-altering medicines (e.g. acetaminophen).
- To the best of my knowledge, I have not been in close contact* with anyone who has been diagnosed with COVID-19 or who are exhibiting any of the symptoms listed above.
- I have not traveled back from a CDC Warning Level 3 country in the last 14 days (check [CDC website](#) for latest updates).
- I have not been on a cruise in the last 14 days.

*Note: "close contact" is defined as:

a) being within approximately 6 feet (2 meters) of a COVID-19 case for a prolonged period of time; close contact can occur while caring for, living with, visiting, or sharing a healthcare waiting area or room with a COVID-19 case

- or -

b) having direct contact with infectious secretions of a COVID-19 case (e.g., being coughed or sneezed on by someone who has been diagnosed).

In addition to this commitment, I will also sign the BC Tailgate Wellness Log prior commencing activities on a daily basis to confirm that none of the above circumstances would be considered applicable prior to starting work.

Acknowledgement

Name (print)

Signature

Date





APPENDIX I -- SITE MANAGEMENT FORMS

INSPECTION FORM
Ardsley LLC
Site# C360146
Town of Greenburgh, Westchester County, New York
[See Attached Site Plan]

BACKGROUND: Periodic inspection are conducted at the Ardsley LLC Site to in accordance with the Site Management Plan.

Periodic inspections are conducted at least annually to ascertain that established institutional controls and engineering controls remain in effect.

INSTRUCTIONS:

- Check-in with facility personnel (if any) upon arrival, and check-out prior to leaving the Site. Lock access gate upon departure.
- Complete all blanks (print legibly). Indicate N/A if not applicable.
- Note locations of pertinent observations on a Site Plan. Append the site plan to this inspection form (if needed).
- Scan the completed Inspection Form and Site Plan mark-up using a high resolution scan setting and save to project folder.
- If the answer to any question below is 'Yes', inform the project manager immediately.

A. General Information:

Inspector: _____ Date: _____ Last Inspection Date: _____
Title: _____ Affiliation (employer): _____
Street Address: _____ City: _____ State: _____
Zip Code: _____ Telephone: _____ Email: _____
Weather Conditions: _____

B. Activities and Uses

1. Is there any observable evidence that the usage of the Site is not consistent with the commercial use limitation, such as residences?

Yes _____ No _____ If Yes, explain below.

2. Is there any evidence of Site groundwater usage, such as the presence of a supply well completion, additional protective casings aside from groundwater monitoring wells, etc.?

INSPECTION FORM

Ardsley LLC

Site# C360146

Town of Greenburgh, Westchester County, New York

[See Attached Site Plan]

Yes _____ No _____ If Yes, explain below.

3. Is there any evidence of trespassing or other unauthorized Site usage?

Yes _____ No _____ If Yes, explain below.

INSPECTION FORM

Ardsley LLC

Site# C360146

Town of Greenburgh, Westchester County, New York

[See Attached Site Plan]

C. Remedial Components and Surface Covers

1. Asphalt Pavement

(a) Condition of the asphalt pavement. Describe any cracks, disturbances, subsidence, excessive weathering, evidence of excavation or other penetrations, etc. Field mark observations with paint and photo-document. Annotate attached Site plan showing locations of observations.

(b) Describe maintenance activities, if any, performed since the last inspection:

(c) Photo document the condition of the Asphalt Pavement.

(d) Are repairs recommended? Yes _____ No _____ If yes, describe type, location, and size of repair area.

INSPECTION FORM
Ardsley LLC
Site# C360146
Town of Greenburgh, Westchester County, New York
[See Attached Site Plan]

2. Site Cover

(a) Is there evidence of erosion or disturbance/excavation? Field mark observations with flagging and photo-document. Annotate attached Site plan showing locations of observations.

Yes _____ No _____ If Yes, explain below.

If soil excavation of disturbance, obtain from facility personnel documentation of proper soil characterization and disposal in accordance with the Soil Excavation Plan (Appendix B of SMP). If documentation is not available, explain below.

(b) Photo document the conditions of the surface cover.

(c) Are repairs recommended? Yes _____ No _____ If yes, describe type, location, and size of repair area.

3. Fencing

(a) Is there evidence of disturbance? Field mark observations with flagging and photo-document. Annotate attached Site plan showing locations of observations.

Yes _____ No _____ If Yes, explain below.

(b) Photo document the conditions of the fence.

INSPECTION FORM

Ardsley LLC

Site# C360146

Town of Greenburgh, Westchester County, New York

[See Attached Site Plan]

(c) Are repairs recommended? Yes _____ No _____ If yes, describe type, location, and size of repair area.

4. Remainder of Site including the undeveloped areas beyond fence and adjacent to Saw Mill River (east and west banks).

Is there evidence of erosion or disturbance/excavation? Field mark observations with flagging and photo-document. Annotate attached Site plan showing locations of observations.

Yes _____ No _____ If Yes, explain below.

If soil excavation of disturbance, obtain from facility personnel documentation of proper soil characterization and disposal in accordance with the Soil Excavation Plan (Appendix B of Site Management Plan). If documentation is not available, explain below.

(c) Photo document the condition of the remainder of the Site.

INSPECTION FORM
Ardsley LLC
Site# C360146
Town of Greenburgh, Westchester County, New York
[See Attached Site Plan]

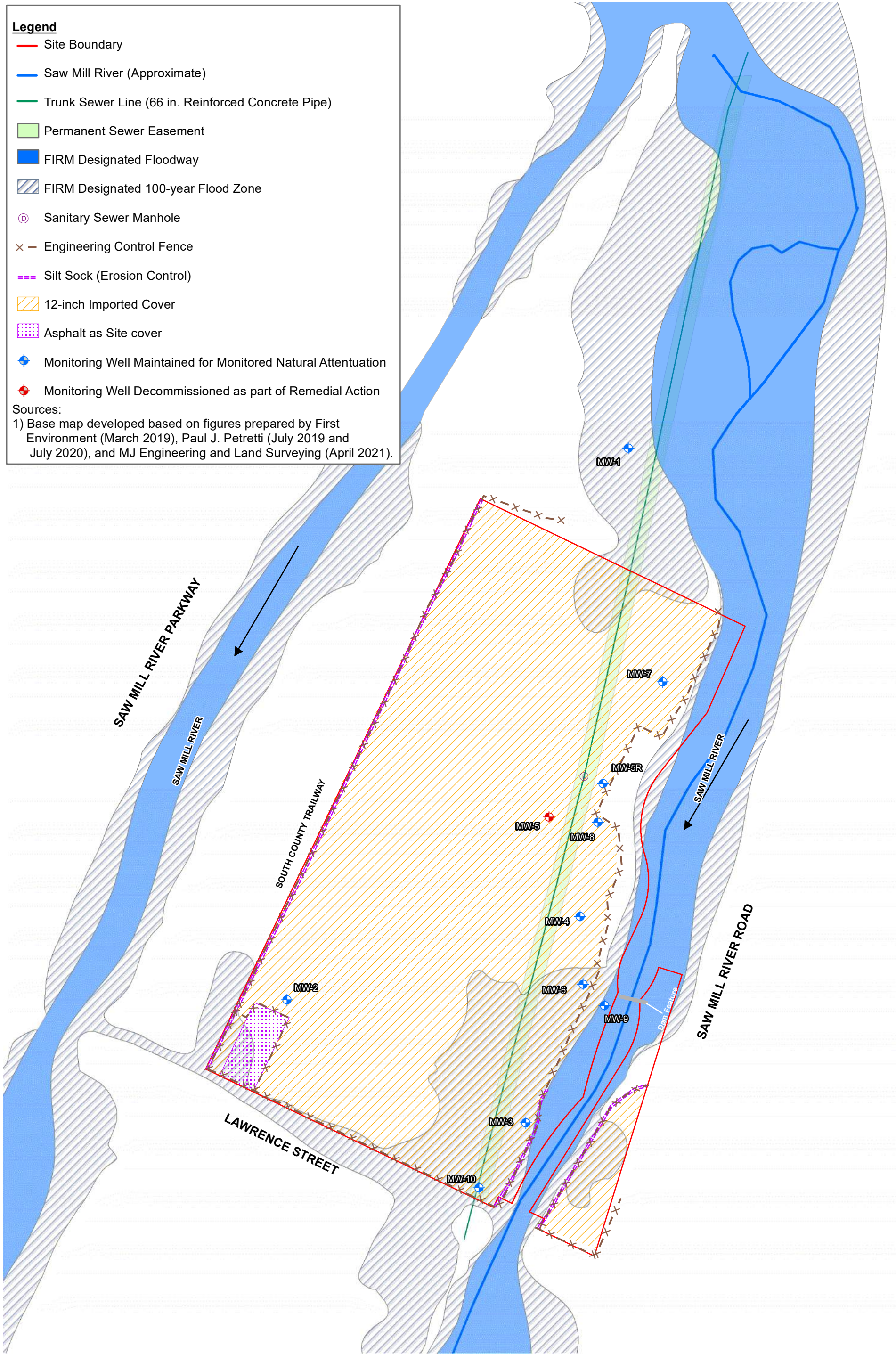
D. Additional Comments

Legend

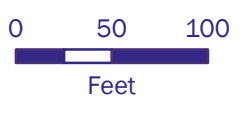
- Site Boundary
- Saw Mill River (Approximate)
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement
- FIRM Designated Floodway
- FIRM Designated 100-year Flood Zone
- D Sanitary Sewer Manhole
- x — Engineering Control Fence
- - - Silt Sock (Erosion Control)
- 12-inch Imported Cover
- Asphalt as Site cover
- + Monitoring Well Maintained for Monitored Natural Attenuation
- + Monitoring Well Decommissioned as part of Remedial Action

Sources:

1) Base map developed based on figures prepared by First Environment (March 2019), Paul J. Petretti (July 2019 and July 2020), and MJ Engineering and Land Surveying (April 2021).



SITE INSPECTION - DATE: _____
ENGINEERING CONTROLS LOCATION (COVER/FENCE)
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK





Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: _____
Sample I.D.: _____ (if different from well no.)

Project: _____ Date: _____ Time: _____
Personnel: _____ Weather: _____ Air Temp.: _____

WELL DATA:

Casing Diameter: _____ Stainless Steel Steel PVC Teflon® Other: _____
Intake Diameter: _____ Stainless Steel Galv. Steel PVC Teflon® Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: Top of Protective Casing Top of Well Casing Other:
CONDITION: Is Well clearly labeled? Yes No Is well clean to bottom? Yes No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) Yes No
Does Weep Hole adequately drain well head? Yes No
Is Concrete Pad Intact? (not cracked or frost heaved) Yes No
Is Padlock Functional? Yes No NA Is Inner Casing Intact? Yes No
Is Inner Casing Properly Capped and Vented? Yes No

VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: Bailer, Size: _____ Bladder Pump 2" Submersible Pump 4" Submersible Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
MATERIALS: Pump/Bailer: Teflon® Stainless Steel PVC Other: _____
Tubing/Rope: Teflon® Polyethylene Polypropylene Other: _____
Pumping Rate: _____ Elapsed Time: _____ Volume Pumped: _____
Was well Evacuated? Yes No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: Dedicated Prepared Off-Site Field Cleaned

SAMPLING DATA:

METHOD: Bailer, Size: _____ Bladder Pump 2" Submersible Pump 4" Submersible Pump
 Syringe Sampler Peristaltic Pump Inertial Lift Pump Other: _____
MATERIALS: Pump/Bailer: Teflon® Stainless Steel
Tubing/Rope: Teflon® Polyethylene
SAMPLING EQUIPMENT: Dedicated Prepared Off-Site Field Cleaned
Metals samples field filtered? Yes No Method: _____
APPEARANCE: Clear Turbid Color: _____ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.
DUP: No Yes Name: _____
MS/MSD: No Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: _____

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: _____ Client: _____ Personnel: _____ Purge/Sample Depth: _____	Project Number: _____ Date: _____ Well ID: _____ Sample ID: _____
---	--

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond ()	DO (mg/L)	Turbidity (NTU)				

Certified Sample Information:
 Time of Sample: _____ Analyst Signature: _____

Instrument Data:
 Manufacturer/Model: _____
 Serial No. Unit: _____ Serial No. Handheld: _____
 Calibration Date/Time: _____

Are low-flow parameters subject to field lab certification? Yes No (not required for CERCLA sites or sites outside of NJ)
 If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

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 J -- FEMA FLOOD INSURANCE RATE MAP

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 18. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NINGS 12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from digital orthophotography provided by the New York State Office of Cyber Security & Critical Infrastructure Coordination. This information was produced as 20-centimeter resolution natural color orthoimagery from photography dated April 2004.

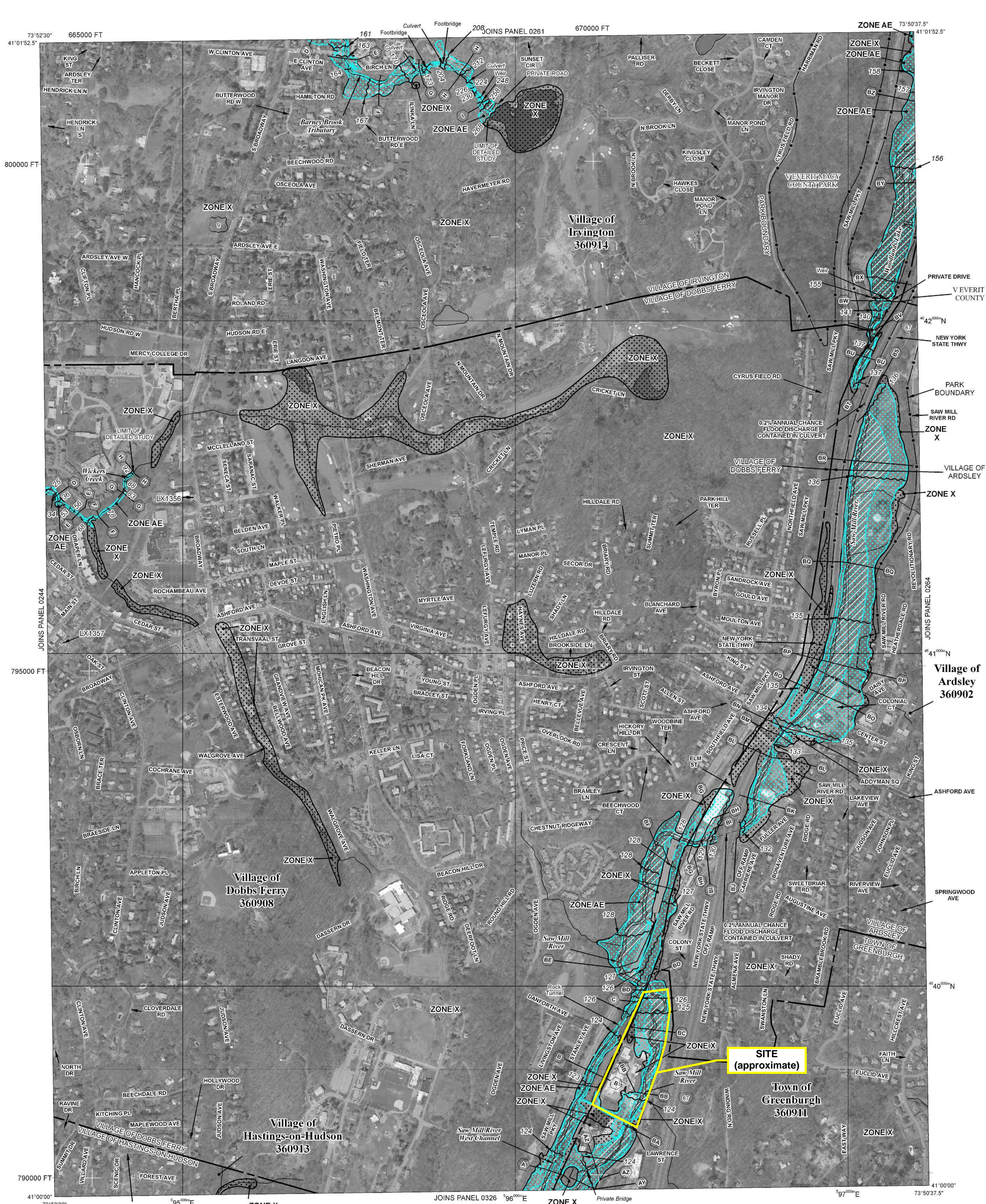
Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://msc.fema.gov>.

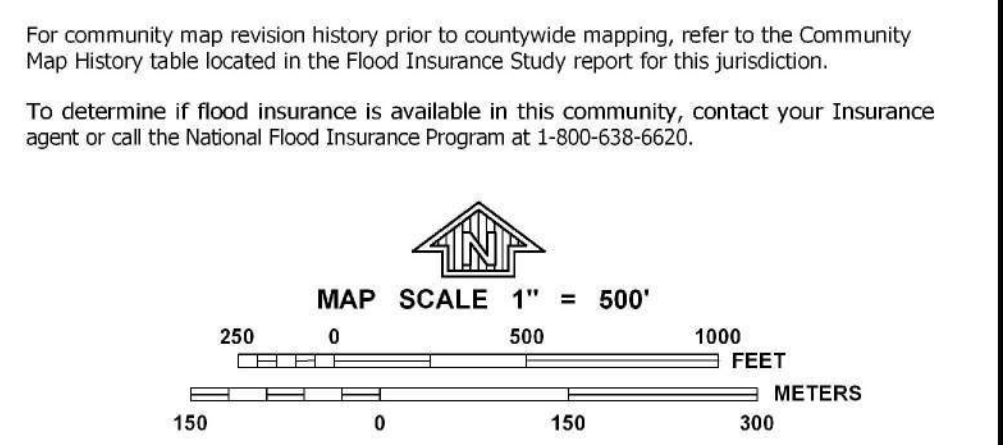
If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.



LEGEND

- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently declassified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS**
- Areas determined to be outside the 0.2% annual chance floodplain.
- Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*

- * Referenced to the North American Vertical Datum of 1988
- Cross section line
- Limited detail cross section line
- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1000-meter Universal Transverse Mercator grid values, zone 18N
- 5000-foot grid ticks: New York State Plane coordinate system, East zone (FIPSZONE 3101), Transverse Mercator projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile
- MAP REPOSITORY**
- Refer to listing of Map Repositories on Map Index.
- EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP**
- September 28, 2007
- EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0263F

FIRM

FLOOD INSURANCE RATE MAP

for WESTCHESTER COUNTY, NEW YORK (ALL JURISDICTIONS)

CONTAINS:

COMMUNITY	NUMBER
ARDSLEY, VILLAGE OF	360902
DOBBS FERRY, VILLAGE OF	360908
GREENBURGH, TOWN OF	360911
HASTINGS-ON-HUDSON, VILLAGE OF	360913
IRVINGTON, VILLAGE OF	360914

OF PANEL 263 OF 426
MAP SUFFIX: F
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
36119C0263F

EFFECTIVE DATE
SEPTEMBER 28, 2007

Federal Emergency Management Agency

**APPENDIX K -- SPREADSHEETS FOR ENVIRONMENTAL FOOTPRINT
ANALYSIS**

Environmental Footprint Summary

Core Element	Metric		Unit of Measure	Footprint						
				Site-Wide Inspection	Post-Remediation Monitoring and Sampling (Year 1)	Post-Remediation Monitoring and Sampling (Year 2 and Beyond)	< Component 4 >	< Component 5 >	< Component 6 >	Total
Materials & Waste	M&W-1	Refined materials used on-site	Tons	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M&W-2	% of refined materials from recycled or reused material	%							
	M&W-3	Unrefined materials used on-site	Tons	0.000	0.000	0.000	0.000	0.000	0.000	0.0
	M&W-4	% of unrefined materials from recycled or reused material	%							
	M&W-5	On-site hazardous waste disposed of off-site	Tons	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M&W-6	On-site non-hazardous waste disposed of off-site	Tons	0.0	0.1	0.1	0.0	0.0	0.0	0.2
	M&W-7	Recycled or reused waste	Tons	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M&W-8	% of total potential waste recycled or reused	%		0.0%	0.0%				0.0%
Water (used on-site)	W-1	Public water use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-2	Groundwater use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-3	Surface water use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-4	Reclaimed water use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-5	Storm water use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-6	User-defined water resource #1	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-7	User-defined water resource #2	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-8	Wastewater generated	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy	E-1	Total energy used (on-site and off-site)	MMBtu	2.4	19.0	9.5	0.0	0.0	0.0	30.8
	E-2	Energy voluntarily derived from renewable resources								
	E-2A	On-site renewable energy generation or use + on-site biodiesel use + biodiesel and other renewable resource use for transportation	MMBtu	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	E-2B	Voluntary purchase of renewable electricity	MWh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	E-3	Voluntary purchase of RECs	MWh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	E-4	On-site grid electricity use	MWh	0.000	0.000	0.000	0.000	0.000	0.000	0.0
Air	A-1	On-site NOx, SOx, and PM emissions	Pounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	A-2	On-site HAP emissions	Pounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	A-3	Total NOx, SOx, and PM emissions	Pounds	0.8	13.2	6.6	0.0	0.0	0.0	20.5
	A-3A	Total NOx emissions	Pounds	0.6	11.6	5.8	0.0	0.0	0.0	18.0
	A-3B	Total SOx emissions	Pounds	0.1	1.0	0.5	0.0	0.0	0.0	1.5
	A-3C	Total PM emissions	Pounds	0.1	0.6	0.3	0.0	0.0	0.0	1.0
	A-4	Total HAP emissions	Pounds	0.1	0.6	0.3	0.0	0.0	0.0	1.0
	A-5	Total greenhouse gas emissions	Tons CO2e*	0.2	1.4	0.7	0.0	0.0	0.0	2.3
Land & Ecosystems	Qualitative Description									

* Total greenhouse gases emissions (in CO2e) include consideration of CO2, CH4, and N2O (Nitrous oxide) emissions.

"MMBtu" = millions of Btus

"MG" = millions of gallons

"CO2e" = carbon dioxide equivalents of global warming potential

"MWh" = megawatt hours (i.e., thousands of kilowatt-hours or millions of Watt-hours)

"Tons" = short tons (2,000 pounds)

The above metrics are consistent with EPA's Methodology for Understanding and Reducing a Project's Environmental Footprint (EPA 542-R-12-002), February 2012

Notes: Totals for Site-Wide Inspection and Post-Remediation Monitoring and Sampling (Year 2 and Beyond) only take into account one year of activities. These activities will be completed until no longer required.

APPENDIX L -- FIGURES FROM REMEDIAL INVESTIGATION REPORT

Legend

- Site Boundary
- Saw Mill River (Approximate)
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Sources:

- 1) Base map developed based on figures prepared by First Environment (March 2019) and Paul J. Petretti (July 2019 and July 2020).
- 2) Aerial photo from NYSDOP 2016 Survey.

Notes:

Areas of Concern as presented in the First Environment RIWP. Locations and dimensions are approximate.

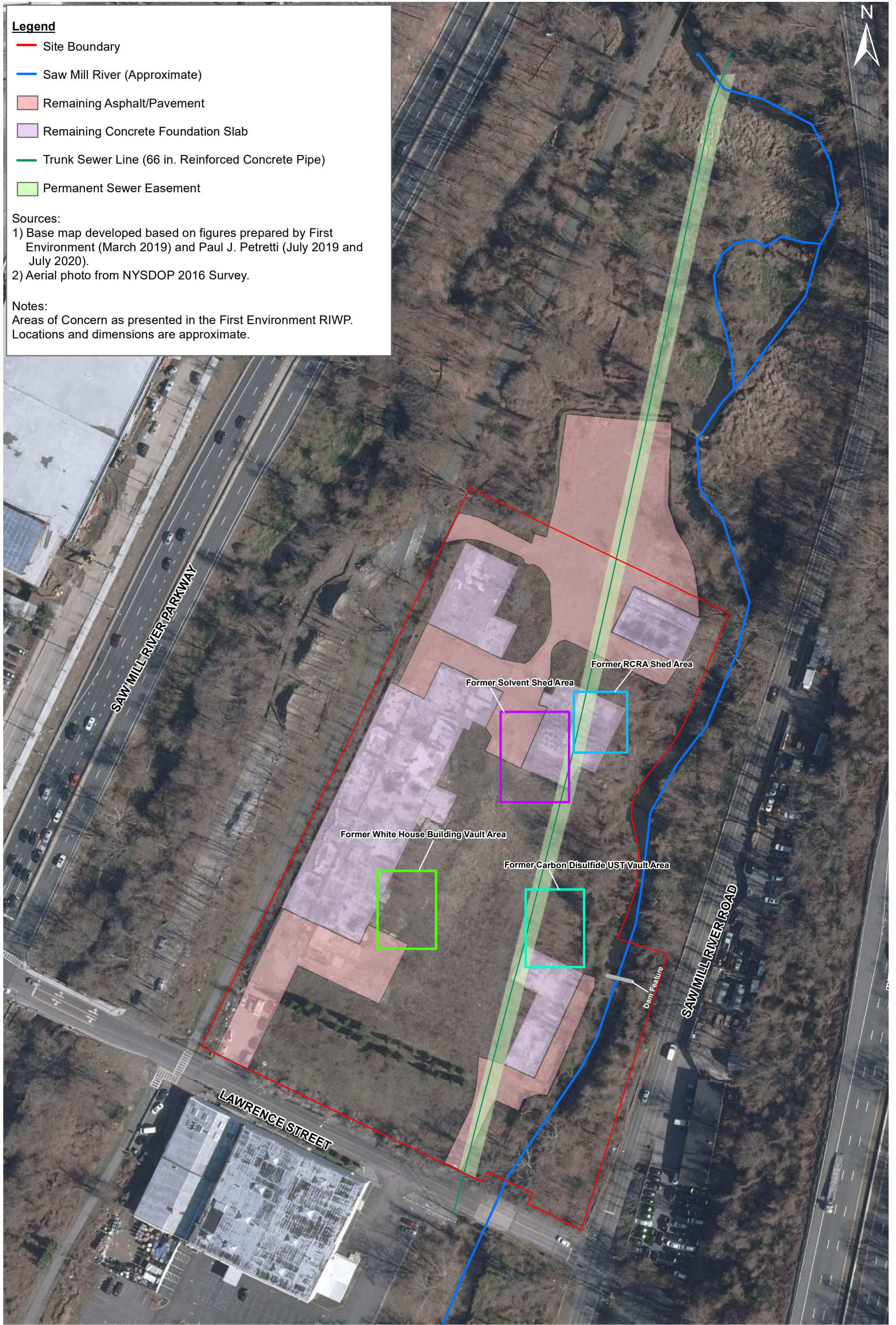
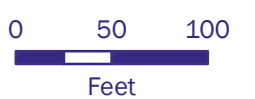


FIGURE 2A
HISTORICAL AREAS OF CONCERN
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



Legend

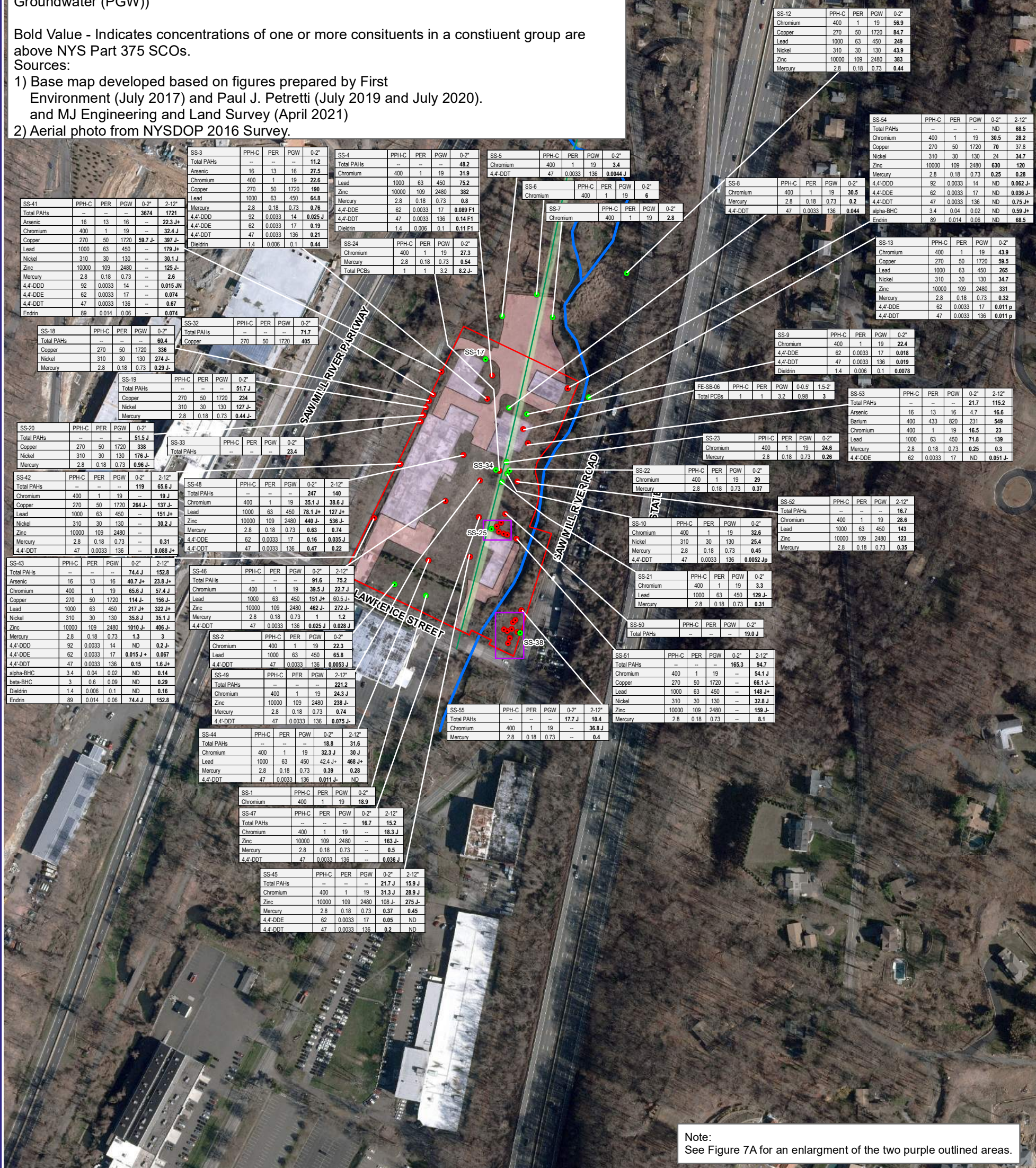
- Site Boundary
- Saw Mill River (Approximate)
- Surface Soil Sample Location - green indicates no exceedance of PPH-C SCOs
- Surface Soil Sample Location - red indicates one or more exceedance of PPH-C SCOs
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Note:
 Box Plots: Analytical soil results compared to NYS Part 375 SCOs(Protection of Public Health for Commercial Use (PPH-C), Protection of Ecological Resources (PER), Protection of Groundwater (PGW))

Bold Value - Indicates concentrations of one or more constituents in a constituent group are above NYS Part 375 SCOs.

Sources:

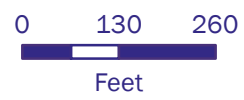
- 1) Base map developed based on figures prepared by First Environment (July 2017) and Paul J. Petretti (July 2019 and July 2020). and MJ Engineering and Land Survey (April 2021)
- 2) Aerial photo from NYSDOP 2016 Survey.



Note:
 See Figure 7A for an enlargement of the two purple outlined areas.



FIGURE 7
 SURFACE SOIL QUALITY (0-2 ft. BGS)
 ARDSLEY LLC SITE (C360146)
 TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



Legend

- Site Boundary
- Saw Mill River (Approximate)
- Surface Soil Sample Location - green indicates no exceedance of PPH-C SCOs
- Surface Soil Sample Location - red indicates one or more exceedance of PPH-C SCOs
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Note:
 Box Plots: Analytical soil results compared to NYS Part 375 SCOs (Protection of Public Health for Commercial Use (PPH-C), Protection of Ecological Resources (PER), Protection of Groundwater (PGW))

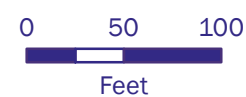
Bold Value - Indicates concentrations of one or more constituents in a constituent group are above NYS Part 375 SCOs.

Sources:

- 1) Base map developed based on figures prepared by First Environment (July 2017) and Paul J. Petretti (July 2019 and July 2020), and MJ Engineering and Land Survey (April 2021)
- 2) Aerial photo from NYS DOP 2016 Survey.



FIGURE 7A
SURFACE SOIL QUALITY (0-2 FT. BGS)
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



Legend

- Site Boundary
- Saw Mill River (Approximate)
- Surface Soil Sample Location - green indicates no exceedance of applicable criteria
- Surface Soil Sample Location - red indicates one or more exceedance of applicable criteria
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Note:
 Box Plots: Analytical soil results compared to NYS Part 375 SCOs (Protection of Public Health for Commercial Use (PPH-C), Protection of Ecological Resources (PER), Protection of Groundwater (PGW)). PFOA and PFOS SCOs are considered guidance values.

Bold Value - Indicates concentrations of one or more constituents in a constituent group are above NYS Part 375 SCOs or guidance values.

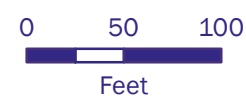
Results are reported in micrograms per kilogram (ug/kg).

Sources:

- 1) Base map developed based on figures prepared by First Environment (July 2017) and Paul J. Petretti (July 2019 and July 2020), and MJ Engineering and Land Survey (April 2021)
- 2) Aerial photo from NYS DOP 2016 Survey.



FIGURE 7B
SURFACE SOIL QUALITY (0-2 FT. BGS) - EMERGING CONTAMINANTS
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



Legend

- Site Boundary
- Saw Mill River (Approximate)
- Soil Sample Location - green indicates no exceedance of applicable SCOs
- Soil Sample Location - red indicates exceedance of applicable SCOs
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

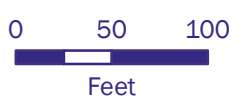
Note:
Analytical soil results compared to NYS Part 375 SCOs (Protection of Public Health for Commercially Zoned Properties and Protection of Groundwater)

Sources:

- 1) Base map developed based on figures prepared by First Environment (July 2017), Paul J. Petretti (July 2019 and July 2020), and MJ Engineering and Land Survey (April 2021).
- 2) Aerial photo from NYS DOP 2016 Survey.



FIGURE 8
SUBSURFACE SOIL QUALITY
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NY



Legend

- Site Boundary
- Saw Mill River (Approximate)
- Soil Sample Location - green indicates no exceedance of applicable SCOs
- Soil Sample Location - red indicates exceedance of applicable SCOs
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Note:
Analytical soil results compared to NYS Part 375 SCOs
(Protection of Public Health for Commercially Zoned Properties,
Protection of Groundwater)

Sources:

- 1) Base map developed based on figures prepared by First Environment (July 2017), Paul J. Petretti (July 2019 and July 2020), and MJ Engineering and Land Surveying (April 2021)
- 2) Aerial photo from NYSDOP 2016 Survey.

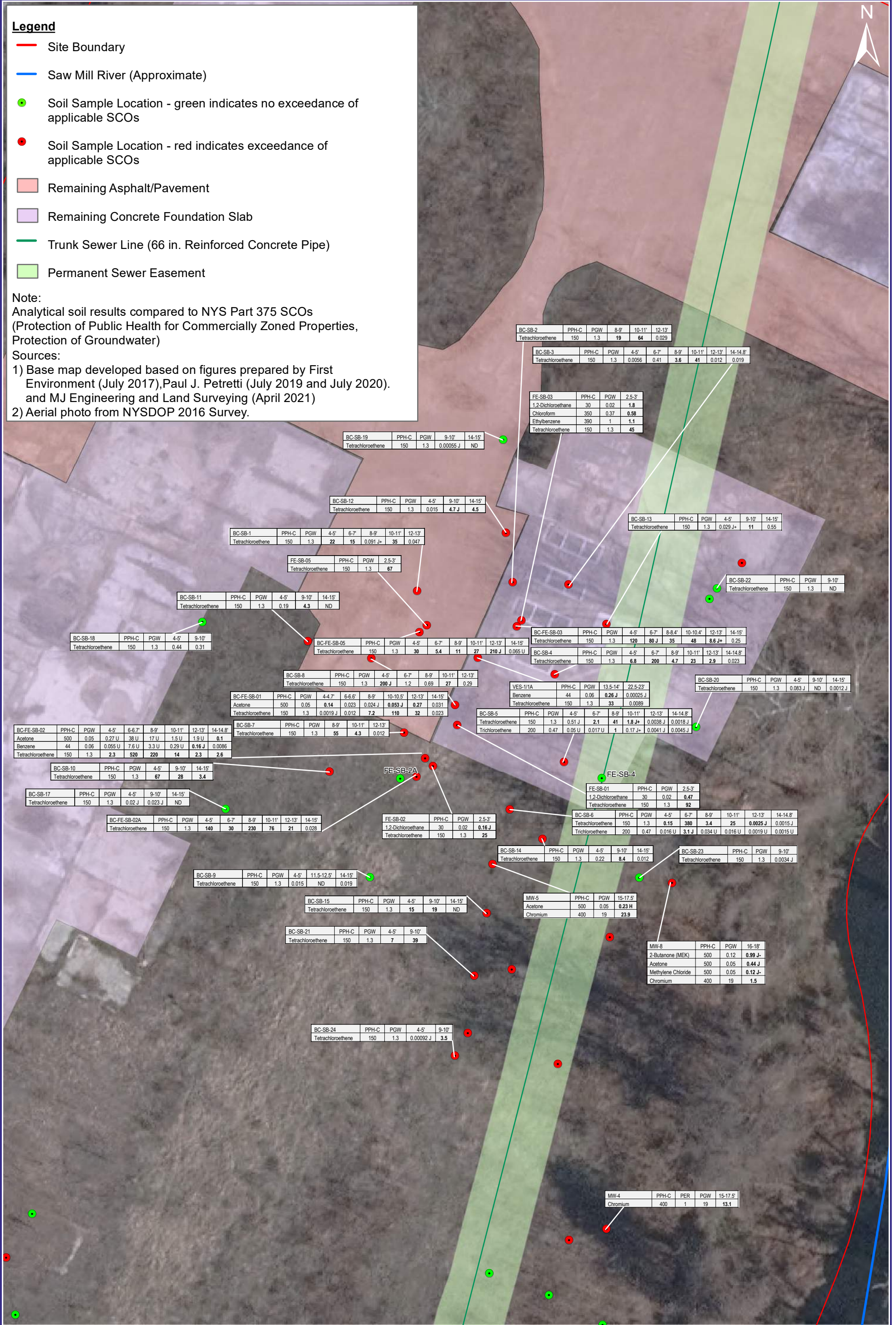
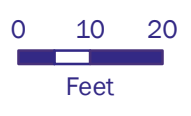


FIGURE 8A
SUBSURFACE SOIL QUALITY - FORMER SOLVENT SHED AREA
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NY



Legend

- Site Boundary
- Saw Mill River (Approximate)
- Subsurface Soil Sample Location - green indicates no exceedance of applicable criteria
- ⊕ Monitoring Well Soil Sample Location - green indicates no exceedance of applicable criteria
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Note:
 Box Plots: Analytical soil results compared to NYS Part 375 SCOs (Protection of Public Health for Commercial Use (PPH-C), Protection of Ecological Resources (PER), Protection of Groundwater (PGW)). PFOA and PFOS SCOs are considered guidance values.

Bold Value - Indicates concentrations of one or more constituents in a constituent group are above NYS Part 375 SCOs or guidance values.

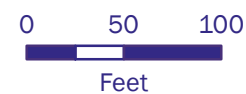
Results are reported in micrograms per kilogram (ug/kg).

Sources:

- 1) Base map developed based on figures prepared by First Environment (July 2017) and Paul J. Petretti (July 2019 and July 2020), and MJ Engineering and Land Survey (April 2021)
- 2) Aerial photo from NYS DOP 2016 Survey.



FIGURE 8B
SUBSURFACE SOIL QUALITY - EMERGING CONTAMINANTS
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



Legend

- Site Boundary
- Saw Mill River (Approximate)
- ◆ Groundwater Sample Location - red indicates exceedance of Class GA Criterion
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Notes:

- ND - Not Detected
- - No Data Available
- Bold Value** - constituent concentration above Class GA Criterion

Results are reported in micrograms per liter (ug/L)

Sources:

- 1) Base map developed based on figures prepared by First Environment (March 2019) and Paul J. Petretti (July 2019 and July 2020).
- 2) Aerial photo from NYSDOP 2016 Survey.

MW-1	Class GA Criteria	8/16/2018	5/13/2019
Iron	300	--	522
Manganese	300	--	430
Sodium	20000	--	60900

MW-5	Class GA Criteria	5/14/2019
1,2-Dichloroethane	0.5	2.7
Benzene	5	6.2
Carbon disulfide	60	89 F1
Chloroform	7	8.1
Tetrachloroethene (PCE)	5	490
Trichloroethene (TCE)	5	15
4-Methylphenol	1	3.3 J
Phenol	1	1.7 J
Chromium	50	72.1
Iron	300	69700
Lead	25	25.7
Manganese	300	849
Sodium	20000	43900

MW-7	Class GA Criteria	5/14/2019
Iron	300	12400
Magnesium	35000	37700
Manganese	300	693
Sodium	20000	56600

MW-8	Class GA Criteria	3/5/2020
Iron	300	95100
Magnesium	35000	58800
Manganese	300	1900
Sodium	20000	56100

MW-4	Class GA Criteria	5/14/2019
Tetrachloroethene (PCE)	5	5.3
Chromium	50	87.6
Iron	300	37800
Magnesium	35000	63800
Manganese	300	1010
Sodium	20000	177000

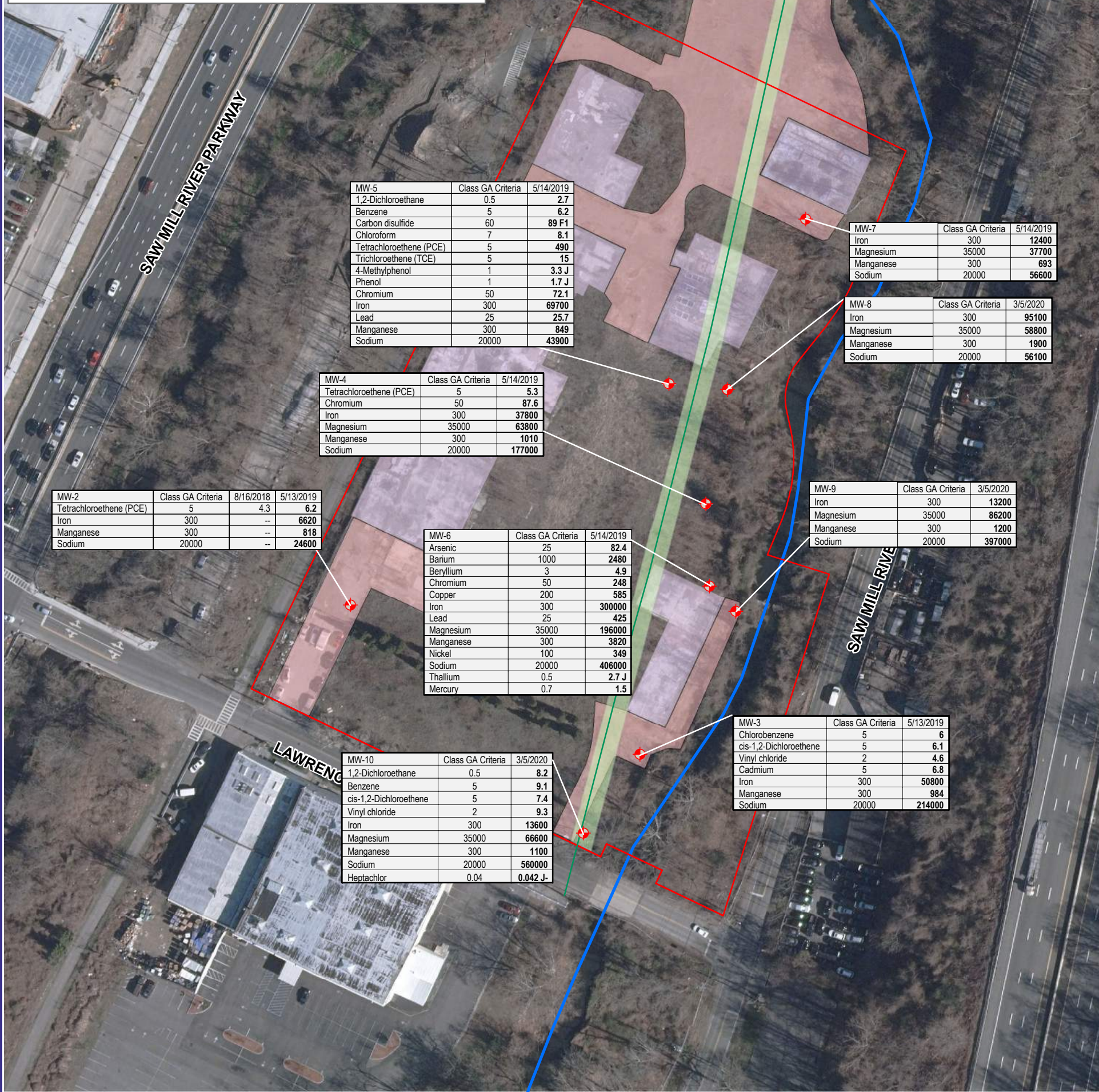
MW-2	Class GA Criteria	8/16/2018	5/13/2019
Tetrachloroethene (PCE)	5	4.3	6.2
Iron	300	--	6620
Manganese	300	--	818
Sodium	20000	--	24600

MW-6	Class GA Criteria	5/14/2019
Arsenic	25	82.4
Barium	1000	2480
Beryllium	3	4.9
Chromium	50	248
Copper	200	585
Iron	300	300000
Lead	25	425
Magnesium	35000	196000
Manganese	300	3820
Nickel	100	349
Sodium	20000	406000
Thallium	0.5	2.7 J
Mercury	0.7	1.5

MW-9	Class GA Criteria	3/5/2020
Iron	300	13200
Magnesium	35000	86200
Manganese	300	1200
Sodium	20000	397000

MW-10	Class GA Criteria	3/5/2020
1,2-Dichloroethane	0.5	8.2
Benzene	5	9.1
cis-1,2-Dichloroethene	5	7.4
Vinyl chloride	2	9.3
Iron	300	13600
Magnesium	35000	66600
Manganese	300	1100
Sodium	20000	560000
Heptachlor	0.04	0.042 J-

MW-3	Class GA Criteria	5/13/2019
Chlorobenzene	5	6
cis-1,2-Dichloroethene	5	6.1
Vinyl chloride	2	4.6
Cadmium	5	6.8
Iron	300	50800
Manganese	300	984
Sodium	20000	214000



**FIGURE 9
GROUNDWATER QUALITY
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK**

Legend

- Site Boundary
- Saw Mill River (Approximate)
- ◆ Groundwater Sample Location - green indicates no exceedance of NYS Drinking water MCL
- ◆ Groundwater Sample Location - red indicates one or more exceedances of NYS Drinking water MCL
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement

Notes:

- ND - Not Detected
- NS - Constituent was not analyzed for
- Bold Value** - constituent concentration above NYS Drinking Water MCL

Results are reported in units of the NYS Drinking Water MCL nanograms per liter (ng/L) or micrograms per liter (ug/L)

Sources:

- 1) Base map developed based on figures prepared by First Environment (March 2019) and Paul J. Petretti (July 2019 and July 2020).
- 2) Aerial photo from NYSDOP 2016 Survey.

MW-1	NYS Drinking Water MCL	8/16/2018
Perfluoro-octanesulfonate (PFOS)	10 ng/L	5
Perfluorooctanoic acid (PFOA)	10 ng/L	6.6
1,4-Dioxane	1 µg/L	ND

MW-5	NYS Drinking Water MCL	5/14/2019
Perfluoro-octanesulfonate (PFOS)	10 ng/L	1.03 J
Perfluorooctanoic acid (PFOA)	10 ng/L	5.74
1,4-Dioxane	1 µg/L	0.32 J

MW-7	NYS Drinking Water MCL	5/14/2019
Perfluoro-octanesulfonate (PFOS)	10 ng/L	4.73
Perfluorooctanoic acid (PFOA)	10 ng/L	4.75
1,4-Dioxane	1 µg/L	0.31 J

MW-8	NYS Drinking Water MCL	3/5/2020
Perfluoro-octanesulfonate (PFOS)	10 ng/L	NS
Perfluorooctanoic acid (PFOA)	10 ng/L	NS
1,4-Dioxane	1 µg/L	0.44

MW-4	NYS Drinking Water MCL	5/14/2019
Perfluoro-octanesulfonate (PFOS)	10 ng/L	6.82
Perfluorooctanoic acid (PFOA)	10 ng/L	17.2
1,4-Dioxane	1 µg/L	0.25 J

MW-9	NYS Drinking Water MCL	3/5/2020
Perfluoro-octanesulfonate (PFOS)	10 ng/L	NS
Perfluorooctanoic acid (PFOA)	10 ng/L	NS
1,4-Dioxane	1 µg/L	0.36

MW-2	NYS Drinking Water MCL	8/16/2018
Perfluoro-octanesulfonate (PFOS)	10 ng/L	7.8
Perfluorooctanoic acid (PFOA)	10 ng/L	13
1,4-Dioxane	1 µg/L	ND

MW-6	NYS Drinking Water MCL	5/14/2019
Perfluoro-octanesulfonate (PFOS)	10 ng/L	9.7
Perfluorooctanoic acid (PFOA)	10 ng/L	17
1,4-Dioxane	1 µg/L	0.26 J

MW-3	NYS Drinking Water MCL	5/13/2019
Perfluoro-octanesulfonate (PFOS)	10 ng/L	4.17 J
Perfluorooctanoic acid (PFOA)	10 ng/L	30.3
1,4-Dioxane	1 µg/L	1.9

MW-10	NYS Drinking Water MCL	3/5/2020
Perfluoro-octanesulfonate (PFOS)	10 ng/L	NS
Perfluorooctanoic acid (PFOA)	10 ng/L	NS
1,4-Dioxane	1 µg/L	37 J

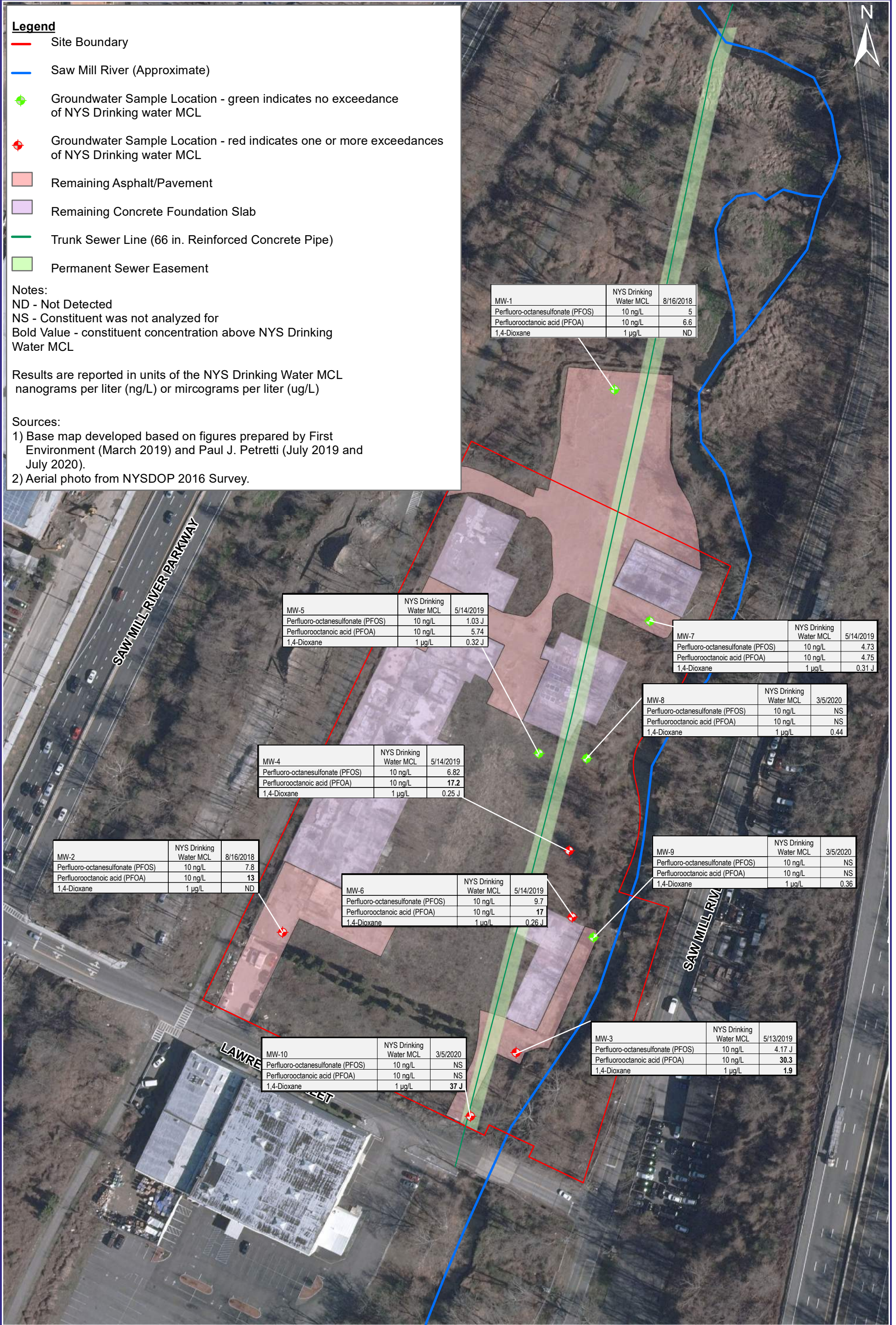
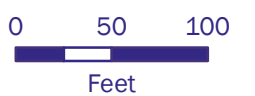
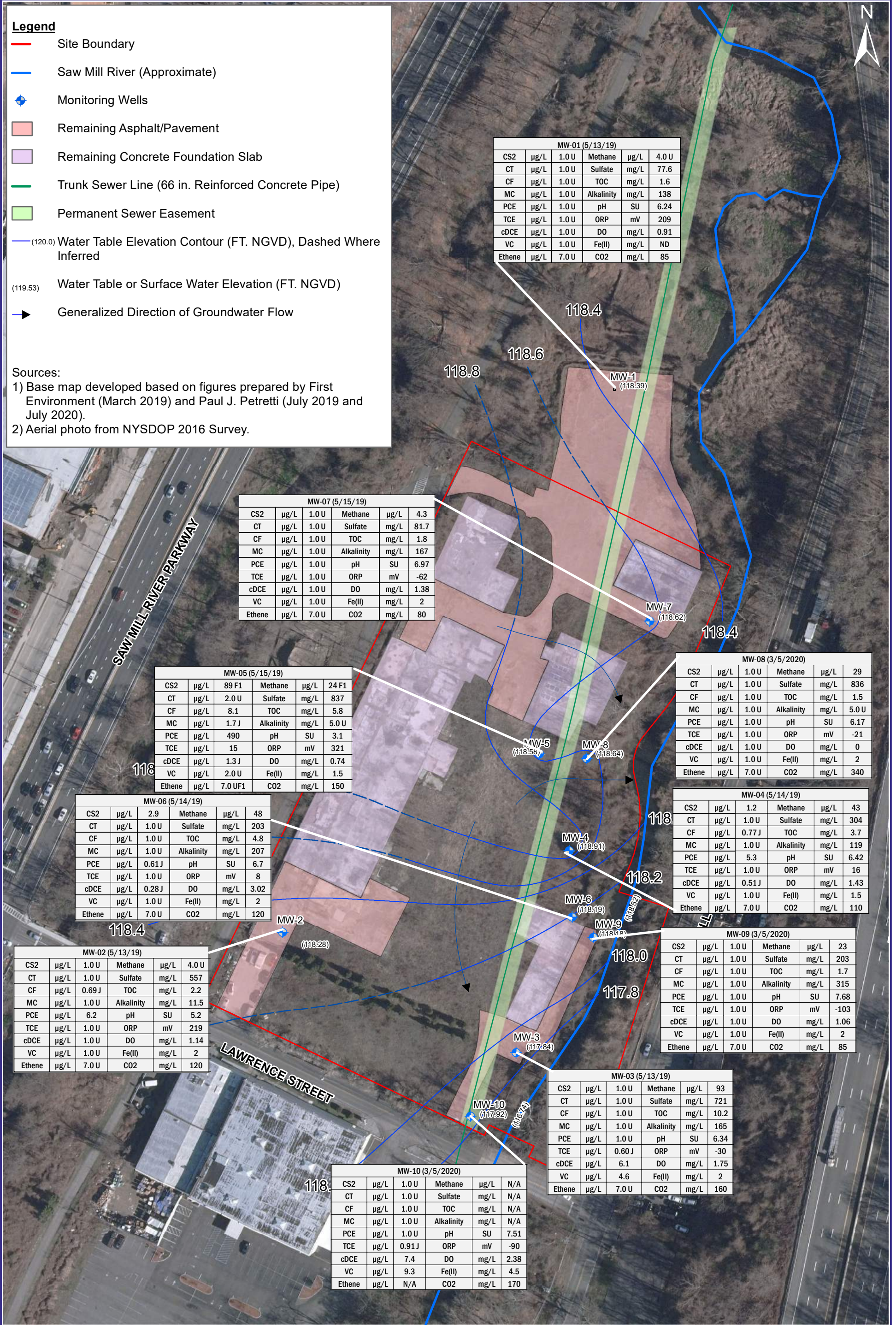


FIGURE 9A
GROUNDWATER QUALITY - EMERGING CONTAMINANTS
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK





Legend

- Site Boundary
- Saw Mill River (Approximate)
- ◆ Monitoring Wells
- Remaining Asphalt/Pavement
- Remaining Concrete Foundation Slab
- Trunk Sewer Line (66 in. Reinforced Concrete Pipe)
- Permanent Sewer Easement
- (120.0) Water Table Elevation Contour (FT. NGVD), Dashed Where Inferred
- (119.53) Water Table or Surface Water Elevation (FT. NGVD)
- ➔ Generalized Direction of Groundwater Flow

Sources:
 1) Base map developed based on figures prepared by First Environment (March 2019) and Paul J. Petretti (July 2019 and July 2020).
 2) Aerial photo from NYSDOP 2016 Survey.

MW-01 (5/13/19)					
CS2	µg/L	1.0 U	Methane	µg/L	4.0 U
CT	µg/L	1.0 U	Sulfate	mg/L	77.6
CF	µg/L	1.0 U	TOC	mg/L	1.6
MC	µg/L	1.0 U	Alkalinity	mg/L	138
PCE	µg/L	1.0 U	pH	SU	6.24
TCE	µg/L	1.0 U	ORP	mV	209
cDCE	µg/L	1.0 U	DO	mg/L	0.91
VC	µg/L	1.0 U	Fe(II)	mg/L	ND
Ethene	µg/L	7.0 U	CO2	mg/L	85

MW-07 (5/15/19)					
CS2	µg/L	1.0 U	Methane	µg/L	4.3
CT	µg/L	1.0 U	Sulfate	mg/L	81.7
CF	µg/L	1.0 U	TOC	mg/L	1.8
MC	µg/L	1.0 U	Alkalinity	mg/L	167
PCE	µg/L	1.0 U	pH	SU	6.97
TCE	µg/L	1.0 U	ORP	mV	-62
cDCE	µg/L	1.0 U	DO	mg/L	1.38
VC	µg/L	1.0 U	Fe(II)	mg/L	2
Ethene	µg/L	7.0 U	CO2	mg/L	80

MW-05 (5/15/19)					
CS2	µg/L	89 F1	Methane	µg/L	24 F1
CT	µg/L	2.0 U	Sulfate	mg/L	837
CF	µg/L	8.1	TOC	mg/L	5.8
MC	µg/L	1.7 J	Alkalinity	mg/L	5.0 U
PCE	µg/L	490	pH	SU	3.1
TCE	µg/L	15	ORP	mV	321
cDCE	µg/L	1.3 J	DO	mg/L	0.74
VC	µg/L	2.0 U	Fe(II)	mg/L	1.5
Ethene	µg/L	7.0 UF1	CO2	mg/L	150

MW-08 (3/5/2020)					
CS2	µg/L	1.0 U	Methane	µg/L	29
CT	µg/L	1.0 U	Sulfate	mg/L	836
CF	µg/L	1.0 U	TOC	mg/L	1.5
MC	µg/L	1.0 U	Alkalinity	mg/L	5.0 U
PCE	µg/L	1.0 U	pH	SU	6.17
TCE	µg/L	1.0 U	ORP	mV	-21
cDCE	µg/L	1.0 U	DO	mg/L	0
VC	µg/L	1.0 U	Fe(II)	mg/L	2
Ethene	µg/L	7.0 U	CO2	mg/L	340

MW-06 (5/14/19)					
CS2	µg/L	2.9	Methane	µg/L	48
CT	µg/L	1.0 U	Sulfate	mg/L	203
CF	µg/L	1.0 U	TOC	mg/L	4.8
MC	µg/L	1.0 U	Alkalinity	mg/L	207
PCE	µg/L	0.61 J	pH	SU	6.7
TCE	µg/L	1.0 U	ORP	mV	8
cDCE	µg/L	0.28 J	DO	mg/L	3.02
VC	µg/L	1.0 U	Fe(II)	mg/L	2
Ethene	µg/L	7.0 U	CO2	mg/L	120

MW-04 (5/14/19)					
CS2	µg/L	1.2	Methane	µg/L	43
CT	µg/L	1.0 U	Sulfate	mg/L	304
CF	µg/L	0.77 J	TOC	mg/L	3.7
MC	µg/L	1.0 U	Alkalinity	mg/L	119
PCE	µg/L	5.3	pH	SU	6.42
TCE	µg/L	1.0 U	ORP	mV	16
cDCE	µg/L	0.51 J	DO	mg/L	1.43
VC	µg/L	1.0 U	Fe(II)	mg/L	1.5
Ethene	µg/L	7.0 U	CO2	mg/L	110

MW-02 (5/13/19)					
CS2	µg/L	1.0 U	Methane	µg/L	4.0 U
CT	µg/L	1.0 U	Sulfate	mg/L	557
CF	µg/L	0.69 J	TOC	mg/L	2.2
MC	µg/L	1.0 U	Alkalinity	mg/L	11.5
PCE	µg/L	6.2	pH	SU	5.2
TCE	µg/L	1.0 U	ORP	mV	219
cDCE	µg/L	1.0 U	DO	mg/L	1.14
VC	µg/L	1.0 U	Fe(II)	mg/L	2
Ethene	µg/L	7.0 U	CO2	mg/L	120

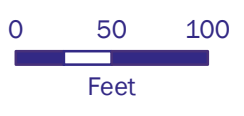
MW-09 (3/5/2020)					
CS2	µg/L	1.0 U	Methane	µg/L	23
CT	µg/L	1.0 U	Sulfate	mg/L	203
CF	µg/L	1.0 U	TOC	mg/L	1.7
MC	µg/L	1.0 U	Alkalinity	mg/L	315
PCE	µg/L	1.0 U	pH	SU	7.68
TCE	µg/L	1.0 U	ORP	mV	-103
cDCE	µg/L	1.0 U	DO	mg/L	1.06
VC	µg/L	1.0 U	Fe(II)	mg/L	2
Ethene	µg/L	7.0 U	CO2	mg/L	85

MW-10 (3/5/2020)					
CS2	µg/L	1.0 U	Methane	µg/L	N/A
CT	µg/L	1.0 U	Sulfate	mg/L	N/A
CF	µg/L	1.0 U	TOC	mg/L	N/A
MC	µg/L	1.0 U	Alkalinity	mg/L	N/A
PCE	µg/L	1.0 U	pH	SU	7.51
TCE	µg/L	0.91 J	ORP	mV	-90
cDCE	µg/L	7.4	DO	mg/L	2.38
VC	µg/L	9.3	Fe(II)	mg/L	4.5
Ethene	µg/L	N/A	CO2	mg/L	170

MW-03 (5/13/19)					
CS2	µg/L	1.0 U	Methane	µg/L	93
CT	µg/L	1.0 U	Sulfate	mg/L	721
CF	µg/L	1.0 U	TOC	mg/L	10.2
MC	µg/L	1.0 U	Alkalinity	mg/L	165
PCE	µg/L	1.0 U	pH	SU	6.34
TCE	µg/L	0.60 J	ORP	mV	-30
cDCE	µg/L	6.1	DO	mg/L	1.75
VC	µg/L	4.6	Fe(II)	mg/L	2
Ethene	µg/L	7.0 U	CO2	mg/L	160



FIGURE 10
GROUNDWATER MONITORED NATURAL ATTENUATION EVALUATION
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



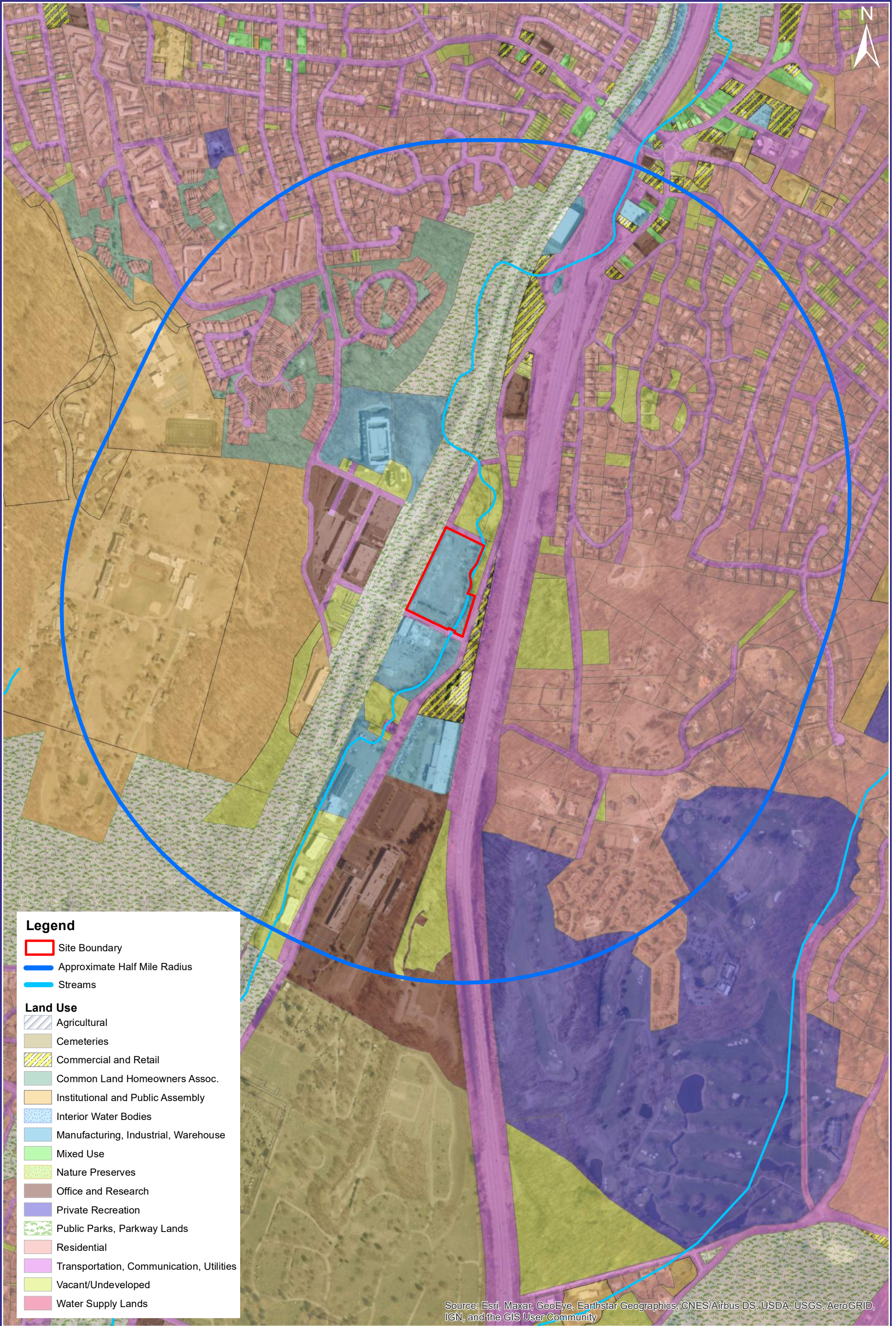
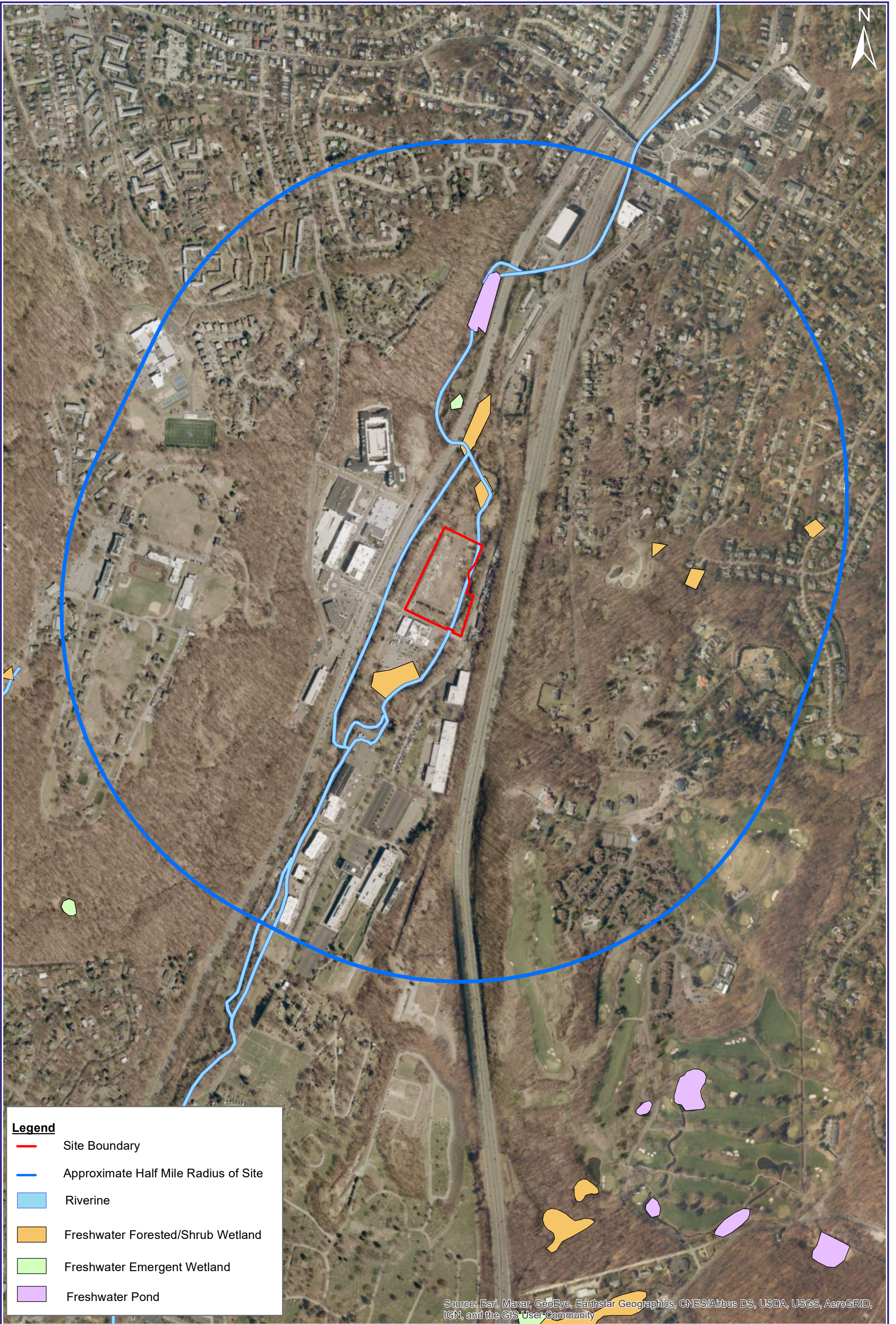


FIGURE 11
LAND USE MAP
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

0 350 700
 Feet



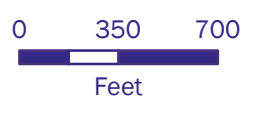
Legend

- Site Boundary
- Approximate Half Mile Radius of Site
- Riverine
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Freshwater Pond

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



FIGURE 12
NATIONAL WETLAND INVENTORY MAP
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK



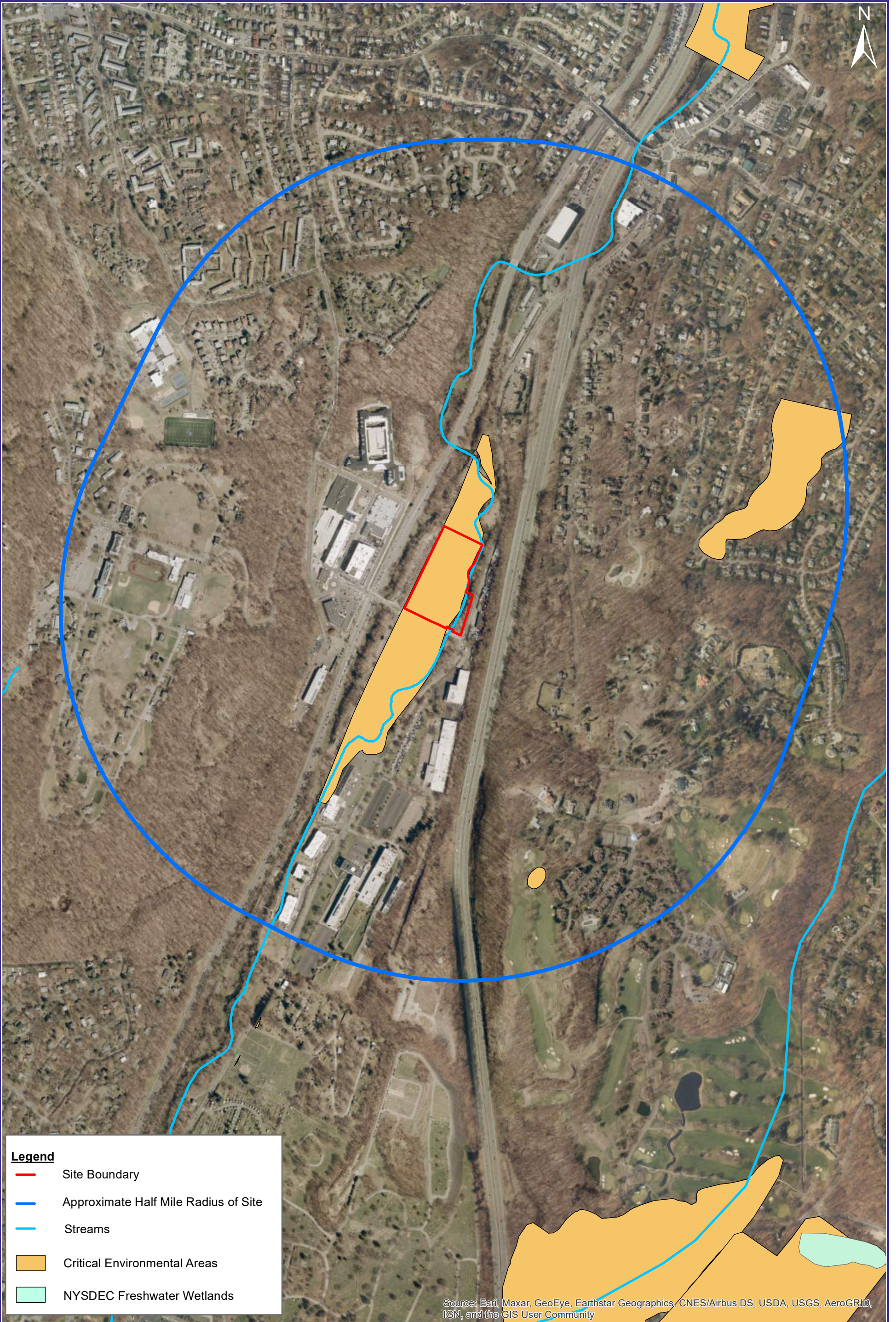


FIGURE 13
CRITICAL ENVIRONMENTAL AREAS
ARDSLEY LLC SITE (C360146)
TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK

