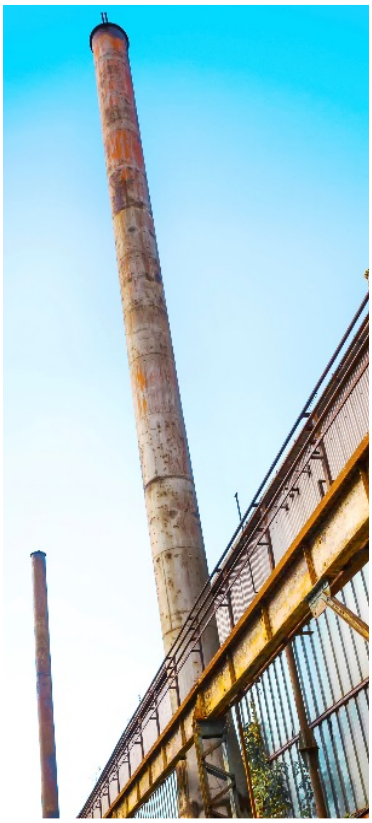
Periodic Review Report

Austin Avenue Landfill BCP Site
BCP Site #C360066
September 27, 2019 to September 27, 2020
Reporting Period

Morris Westchester Junior Retail Associates, LLC



Executive Summary

The Austin Avenue Landfill Brownfield Cleanup Program (BCP) Site (BCP Site #C360066) consists of approximately 14.1 acres of land located at 323 Sprain Road in the City of Yonkers, Westchester County, New York. This Periodic Review Report (PRR) is being submitted to the New York State Department of Environmental Conservation (NYSDEC) in accordance with the Site Management Plan (SMP) for the Site.

Site soil and groundwater were historically determined to have detectable concentrations of polychlorinated biphenyls (PCBs), metals, and semi-volatile organic compounds (SVOCs). In addition, Site soil vapor was considered to have the potential for accumulation of explosive gases associated with the historic landfill operations, which would require the assessment of the potential for soil vapor intrusion in any future buildings constructed on-Site. The Site was remediated to restricted-residential use cleanup standards and received a Certificate of Completion (COC) from the NYSDEC on June 10, 2015.

Since the issuance of the COC, the Property has been divided into three (3) parcels, which are currently owned by: Morris Westchester Retail Associates, LLC (a portion of Parcel 3-3244-4); Morris Westchester Junior Retail Associates, LLC (Parcel 3-3244-7); and the City of Yonkers, New York (Parcel 3-3244-1). The parcels and the COC were transferred to the new owners in June 2016 as described in previous reports. The Site Remedial Party is Austin Avenue Brownfield Redevelopment, LLC.

In accordance with the NYSDEC-approved revised SMP (April 2019), Site monitoring currently includes annual groundwater sampling and an annual Site inspection. Annual groundwater monitoring and Site inspection is currently being conducted on behalf of one of the Site owners, Morris Westchester Junior Retail Associates, LLC, in May and September, respectively, of each year. The annual Site inspection corresponds with the closure of the PRR certification period. The institutional and engineering controls certification form, as issued by NYSDEC, has been completed and is included as Appendix A.

Included in the SMP is a Soil Management Plan outlining the requirements for implementing any excavation activities that may occur at the Site. A geotechnical investigation was completed during this reporting period in June 2020 that required the submittal and approval of a work plan to conduct excavations and disturbances of the soil cover. A summary of the work completed is included in Appendix D.

Based on the Site inspection conducted on September 22, 2020, the institutional controls and engineering controls for the Site remain in place and effective for protecting human health and the environment. The soil cover engineering controls remain in place, and no structures have been built on-Site. The Site is currently in the monitoring stage with groundwater samples being taken from on-Site groundwater monitoring wells on an annual basis. In general, stable or decreasing concentrations appear to be observed at the Site.

The requirements necessary to discontinue Site monitoring and Site engineering and institutional controls have not been met at this time. Proposed revisions to the monitoring plan and annual PRR should be assessed annually and requests submitted to the NYSDEC and NYSDOH for review and approval as appropriate.

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1. Introduction

1.1 Purpose

This Periodic Review Report (PRR) is being submitted for the Austin Avenue Landfill Brownfield Cleanup Program (BCP) Site (BCP Site No. C360066) (Site) located at 323 Sprain Road, City of Yonkers, Westchester County, New York (Figure 1), on behalf of one of the Site Owners, Morris Westchester Junior Retail Associates, LLC. The purpose of this PRR and attached documents is to document that institutional and engineering controls, as described in the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (SMP) and Environmental Easement (EE), are in place in accordance with 6NYCRR Part 375-3. The following elements are included in this report:

- A description of all institutional and/or engineering controls employed at the Site.
- An evaluation of the plans developed for implementation of the engineering and institutional controls, regarding the continued effectiveness of any institutional and/or engineering controls required by the decision document for the Site.
- A certification prepared by a professional engineer or qualified environmental professional that the institutional controls and/or engineering controls employed at the Site during the period are:
  - Unchanged from the previous certification, unless approved by NYSDEC.
  - Consistent with the current NYSDEC-approved SMP.
  - In place and effective.
  - Performing as designed, and that nothing has occurred that would (1) impair the ability of the controls to protect public health and the environment, or (2) constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- The institutional and engineering controls certification form, as issued by NYSDEC, has been completed and is included as Appendix A.
- Data tables and figures depicting results of annual groundwater monitoring activities conducted on-Site.

1.2 Certification Period

NYSDEC requested that this Periodic Review Report (PRR) cover the period between September 27, 2019 and September 27, 2020. During this period, one of the parcel owners, Morris Westchester Junior Retail Associates, LLC, has opted to conduct the groundwater monitoring, Site inspection, and prepare the annual PRR as required by the SMP. Morris Westchester Junior Retail Associates, LLC retained GHD Consulting Services Inc. (GHD) to perform these tasks on their behalf.

2. Site Overview

The Site is located in the City of Yonkers, Westchester County, New York and is a part of multiple tax parcels of land (Property). After issuance of the Certificate of Completion, the Property was subdivided into three (3) parcels to accommodate potential future development and establish designated park land. The parcels are identified as Parcel 3-3244-1, Parcel 3-3244-4, and Parcel 3-3244-7 on the NYSDEC Institutional and Engineering Controls Certification Form. The three parcels are further described as follows:

- Parcel 3-3244-1 – Approximately 9.89 acres of land reportedly owned/operated by the City of Yonkers, New York.
- Parcel 3-3244-4 – Approximately 3.24 acres of land, which is part of the larger overall approximately 13.17 acre parcel, reportedly owned/operated by Morris Westchester Retail Associates, LLC.
- Parcel 3-3244-7 – Approximately 5.13 acres of land reportedly owned/operated by Morris Westchester Junior Retail Associates, LLC.

The Property as a whole is approximately 18.26 acres and was investigated with approximately 14.1 acres being remediated to a Track 4 Restricted Residential Use, which represents the area of the BCP Site. Figure 2 depicts the extents of the Property, the location and extent of each parcel, and the extents of the BCP Site and engineering controls. The Site is bound by Austin Avenue to the north, Home Depot's back parking lot to the south, Sprain Brook and Sprain Road to the east, and an unimproved road and similar vacant land (Lot 4 – Austin Avenue and Prior Place BCP Site, Site #C360116), to the west (Figure 2).

The Site is currently undeveloped with a minimum of a 2-foot thick soil cover system covering its entirety. The soil cover system consists of clean off-site fill placed over a geotextile demarcation layer with established vegetation at the surface.

The Remedial Investigation (RI), which was conducted under Brownfield Cleanup Agreement (BCA Index #A3-0542-0306) and BCP Site #C360066 during 2006 and 2007, as well as previous investigations conducted by others, characterized the nature and extent of contamination at the Site. The results of the RI, as reported in the *Remedial Investigation Report* (S&W Redevelopment of North America, LLC, August 2007) determined that contaminants of potential concern are present in Site soil/historic fill and groundwater. It was determined that Site surface and subsurface soil/historic fill contains metals, specifically cadmium, chromium, copper, lead, and mercury at concentrations that exceed the Residential Use Soil Cleanup Objectives (SCOs). Analytical results of Site groundwater samples identified one polychlorinated biphenyl (PCB, Aroclor 1260); one pesticide (dieldrin); and multiple metals, including arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, sodium, and zinc at concentrations that exceed the Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA groundwater standards or guidance values. In addition, there was little to no evidence of explosive gas associated with the former landfill operations detected at the Site.

A *Remedial Work Plan* (RWP) was prepared by S&W Redevelopment of North America, LLC (November 2009). The remedial goals for the Site included:

- Eliminate or mitigate, to the extent practicable, on-Site environmental or public health exposures to on-Site metals contamination that may remain in soil/historic fill or groundwater.
- Eliminate or mitigate, to the extent practicable, the potential for concentrations of soil gases (i.e., explosive gases) to enter future Site buildings, if any.

The proposed remedial approach was to remediate the Site to a Track 4 Restricted Residential Use by implementing engineering/institutional controls at the Site, including: placing a minimum of 2 feet of clean fill, underlain by a geotextile demarcation layer, across the entirety of the Site; requiring the evaluation and mitigation, if necessary, of soil vapor intrusion in any future buildings constructed on-Site; and implementing an Environmental Easement for the Site, which included Site use and groundwater use restrictions. Remedial activities were completed at the Site between October 2010 and February 2011 and included the placement of approximately 141,500 cubic yards of clean fill, underlain by a demarcation layer, to act as a soil cover engineering control.

The engineering controls for the Site consist of maintaining the soil cover system and evaluating the potential for vapor intrusion for any building(s) developed on-Site, with any potential impacts that are identified being monitored or mitigated. The institutional controls include a Site groundwater use restriction, a Site use restriction of restricted residential use or higher uses (i.e., commercial or industrial uses, subject to local zoning), and evaluating the potential for soil vapor intrusion in any future building(s) constructed on-Site.

An EE for the Site was filed with the Westchester County Clerk's Office on April 22, 2015. A SMP, which outlines Site restrictions and requirements of future maintenance and monitoring, was completed in May 2011 and Revised in April 2015 and April 2019. A Certificate of Completion allowing for restricted residential, commercial, and industrial use of the Site was received from the NYSDEC on June 10, 2015.

The reader of this PRR may refer to previous reports for more detail, as needed. These reports include:

- DFH Environmental Services, Inc., January 10, 1990, "Project Update Report"
- Leggette, Brashears & Graham, Inc. (LBG), April 5, 1995, "Austin Avenue Landfill Surface and Ground-Water Investigation"
- Leggette, Brashears & Graham, Inc. (LBG), May 1995, "Supplemental Investigation of Bedrock Ground-Water Quality"
- Leggette, Brashears & Graham, Inc. (LBG), November 1996, "Phase I Environmental Site Assessment"
- Leggette, Brashears & Graham, Inc. (LBG), March 4, 1997, "Soil Sampling Letter Report"
- Geraghty & Miller, Inc., June 1997, "Hydrogeologic Investigation of Selected Landfills in Westchester County, New York"
- Leggette, Brashears & Graham, Inc. (LBG), February 19, 1998, "Semi-Annual Surface and Ground-Water Monitoring Letter Report"

- Leggette, Brashears & Graham, Inc. (LBG), August 21, 1998, “Semi-Annual Surface and Ground-Water Monitoring Letter Report”
- Leggette, Brashears & Graham, Inc. (LBG), September 7, 1999, “Update to November 1996 Phase I Environmental Site Assessment”
- Leggette, Brashears & Graham, Inc. (LBG), October 8, 1999, “Semi-Annual Surface and Ground-Water Monitoring Letter Report”
- Leggette, Brashears & Graham, Inc. (LBG), October 3, 2000, “Supplemental Site Characterization Activities, Former Austin Avenue Landfill, Yonkers, New York”
- S&W Redevelopment of North America, LLC, August 2007, “Remedial Investigation Report, Austin Avenue Landfill Brownfield Site, City of Yonkers, Westchester County, NY”
- S&W Redevelopment of North America, LLC, November 2009, “Remedial Work Plan, Austin Avenue Landfill Brownfield Site, City of Yonkers, Westchester County, NY”
- S&W Redevelopment of North America, LLC, May 2011, Revised by: GHD Consulting Engineers, LLC, April 2015, Revised by: GHD Consulting Services Inc., April 2019, “Site Management Plan, Former Austin Avenue Landfill Site, Westchester County, New York”
- S&W Redevelopment of North America, LLC, May 2011, Revised by: GHD Consulting Engineers, LLC, April 2015, “Final Engineering Report, Former Austin Avenue Landfill Site, Westchester County, New York”
- New York State Department of Environmental Conservation, June 10, 2015, “Certificate of Completion, Austin Avenue Landfill Site”
- GHD Consulting Services Inc., Periodic Review Report, Austin Avenue Landfill Brownfield Cleanup Program Site (Site #C360066), June 10, 2015 to September 27, 2016 Reporting Period, December 21, 2016
- GHD Consulting Services Inc., Periodic Review Report, Austin Avenue Landfill Brownfield Cleanup Program Site (Site #C360066), September 27, 2016 to September 27, 2017 Reporting Period, October 31, 2017
- GHD Consulting Services Inc., Periodic Review Report, Austin Avenue Landfill Brownfield Cleanup Program Site (Site #C360066), September 27, 2017 to September 27, 2018 Reporting Period, November 5, 2018
- GHD Consulting Services Inc., Periodic Review Report, Austin Avenue Landfill Brownfield Cleanup Program Site (Site #C360066), September 27, 2018 to September 27, 2019 Reporting Period, November 12, 2019
- Dynamic Earth, LLC, Geotechnical Investigation Compliance Letter - Former Austin Avenue Landfill BCP Site (Site # C360116 & C360066), September 1, 2020
- GHD Consulting Services Inc., Lot 1 – Former Austin Avenue Landfill BCP Site (Site #C360066) – Annual Post-Remediation Groundwater Monitoring – 2020, September 9, 2020

3. Institutional and Engineering Controls

Based on identified soil and groundwater contamination, the potential for explosive gases from historic operations, and the Site's past, present, and reasonably anticipated future use, institutional and engineering controls are utilized at the Site to limit exposure risks. These institutional and engineering controls and their status are described below.

3.1 Institutional Controls

The institutional controls (ICs) for this Site are outlined in the NYSDEC-approved SMP (S&W Redevelopment of North America, LLC, May 2011; Revised by: GHD Consulting Engineers, LLC, April 2015; Revised by: GHD Consulting Services Inc., April 2019), and adherence to these ICs is required by the Environmental Easement. The ICs for the Site include the following:

- The Site may only be used for Track 4 Restricted Residential, Commercial, or Industrial use provided that the long-term engineering and institutional controls included in the SMP are employed and local zoning laws allow the use.
- The Site may not be used for a higher level of use, such as Unrestricted Use or Residential Use, without amendment of the Environmental Easement, and review and approval by the NYSDEC.
- All future activities on-Site that will disturb remaining contaminated material must be conducted in accordance with the SMP.
- The use of groundwater underlying the Site is prohibited without treatment rendering it safe for the intended use and prior written approval from the NYSDEC.
- The potential for vapor intrusion must be evaluated for any building(s) developed on-Site, and any potential impacts that are identified must be monitored or mitigated.
- Vegetable gardens and farming on-Site are prohibited.
- The Site Owner or Remedial Party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitutes a violation or failure to comply with the SMP. NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow, and will be made by an expert that the NYSDEC finds acceptable.

3.1.1 Environmental Easement

The Environmental Easement was filed with the Westchester County Clerk's office and reportedly remains unchanged.

3.1.2 Site Use

Although the Site Ownership has changed, as described above, the Site use has not changed since the NYSDEC issued the COC. The Site is currently vacant and consists of a vegetated soil cover system with associated drainage control features. Equipment associated with Stew Leonard operations continues to be staged at the Site near the entrance from Stew Leonard Drive. During the annual inspection it was noted that several plastic garbage bags were left near the Stew Leonard Drive entrance and should be removed and properly disposed of off-site.

3.1.3 Groundwater

Groundwater is not being used at the Site.

Annual groundwater monitoring and Site inspection was conducted as outlined in the NYSDEC-approved revised SMP during this PRR's certification period, on June 11, 2020 and September 22, 2020, respectively. Additional information is provided in Section 4. Based on the annual inspection observations, well SWRMW-02 requires the well cap lock to be replaced.

3.1.4 Excavations

Test pit excavations and soil borings associated with a geotechnical investigation of the Site occurred on-Site during this PRR's certification period. Additional details of these activities are provided in Section 3.2.1 and Appendix D.

3.2 Engineering Controls

The engineering controls (ECs) for this Site are outlined in the NYSDEC-approved SMP (S&W Redevelopment of North America, LLC, May 2011; Revised by: GHD Consulting Engineers, LLC, April 2015; Revised by: GHD Consulting Services Inc., April 2019), and include the following:

3.2.1 Soil Cover System

Direct contact with potentially contaminated soil/historic fill at the Site is mitigated by a soil cover system in place over the entirety of the BCP Site. This soil cover system is comprised of a geotextile demarcation layer overlain by a minimum of 2 feet of clean soil, which was seeded to establish a vegetative cover. The location of the soil cover system is depicted in Figure 3.

There was no record of the soil cover system being breached during the reporting period, except in isolated areas, as approved by the NYSDEC, for completion of a geotechnical investigation between June 10 and June 30, 2020. The areas disturbed by this investigation were completed and backfilled with on-site material removed from the test pit or boring, with the demarcation layer restored by either placing a new section of geotextile fabric (for test pits) or grouting from below the demarcation layer elevation to the ground surface (for borings), and the disturbed surface area graded and seeded. All soil and historic fill removed from the borings and test pits were returned to the same boring or test pit from which they came with a first out last in approach. Clean fill material was segregated from the historic fill material during test pitting activities. No materials were imported to

the Site (except for the grout material) or removed from the Site during completion of these activities. Additional information on the geotechnical investigation can be found in the Dynamic Earth, LLC Geotechnical Investigation Compliance Letter (Appendix D), which was previously provided to NYSDEC and NYSDOH.

An annual inspection of the Site was completed on September 22, 2020 by GHD personnel. Based on field observations, the soil cover system appeared generally unchanged during this certification period, except for noted areas of disturbance associated with the geotechnical investigation. No maintenance was reportedly required to amend the soil cover system during this certification period. The vegetative cover on-Site is well established, and no erosion was observed.

In general, the soil cover system should be periodically mowed to discourage woody growth. Based on Site inspection field observations, there was woody growth observed in the rock retaining wall on the eastern perimeter of the Site and in other isolated areas of the soil cover system. The observed woody growth did not appear to be adversely impacting the soil cover system at this time. The woody growth observed in the rock retaining wall and relatively flat surfaces should be removed to maintain the integrity of the wall and cover system. It is noted that the NYSDEC agreed to allowing woody growth on the steep side slopes of the Site that were established as designated park land and where mowing would be difficult. Minor evidence of animal burrowing was observed near the stone retaining wall on the eastern portion of the Site, beyond the limits of the soil cover system.

Additional information can be found in the Institutional and Engineering Controls Certification Form (Appendix A) and the Annual Site Inspection Form (Appendix B).

3.2.2 Soil Vapor Mitigation System

The potential for vapor intrusion must be evaluated for any building(s) developed on-Site and any potential impacts that are identified must be monitored or mitigated.

At the time of the annual Site inspection (September 22, 2020), no buildings had been constructed on-Site; therefore, no soil vapor intrusion investigation, monitoring, or mitigation is required at this time.

4. Operations and Monitoring

Based on established groundwater quality trends, the spring 2018 groundwater monitoring report recommended a reduction in groundwater sampling frequency from semi-annual to annual and a reduction in the sample analytical list to include metals analysis only (i.e., remove analysis for SVOCs and PBCs). These requests were approved by NYSDEC on November 30, 2018. The NYSDEC-approved the revised SMP (S&W Redevelopment of North America, LLC, May 2011; Revised by: GHD Consulting Engineers, LLC, April 2015; Revised by GHD Consulting Services Inc., April 2019) which currently requires annual groundwater monitoring and reporting and annual Site inspection, as well as monitoring and reporting requirements for a future soil vapor mitigation or monitoring system, if applicable.

The annual groundwater monitoring is intended to assess the performance of the remedy. Annual groundwater monitoring was completed in accordance with the NYSDEC-approved SMP during this PRR's certification period, on June 11, 2020 (Figure 4 and Tables 1 through 3). An annual groundwater monitoring report was transmitted to the NYSDEC on September 9, 2020. Groundwater monitoring results for the spring 2020 monitoring event were also uploaded in the NYSDEC EQuIS Database, were approved by the EQuIS Team, and are ready for use (Appendix C).

An annual inspection was completed in accordance with the NYSDEC-approved SMP during this PRR's certification period, on September 22, 2020. The Annual Inspection Form is included in Appendix B. The recommendations resulting from the annual inspection are summarized in Section 5.

4.1 Groundwater Monitoring Results

Based on the laboratory analytical results, concentrations of contaminants of potential concern in groundwater have shown decreases over time as a result of the remedial action completed at the Site. The groundwater sample analytical results from this PRR's certification period (June 2020 monitoring event, Tables 1 through 3) indicate:

- Concentrations of various metals were detected above laboratory detection limits in each of the groundwater samples, of which the following exceeded Class GA standards or guidance values:
  - Barium – SWRMW-5
  - Chromium – SWRMW-4 and SWRMW-5
  - Copper – SWRMW-5
  - Iron – All samples
  - Lead – SWRMW-5
  - Magnesium – SWRMW-1, SWRMW-4, and SWRMW-5
  - Manganese – SWRMW-1, SWRMW-4, and SWRMW-5
  - Nickel – SWRMW-4 and SWRMW-5
  - Selenium – SWRMW-5
  - Sodium – SWRMW-1, SWRMW-4, and SWRMW-5
  - Thallium – SWRMW-4 and SWRMW-5

Identified concentrations of metals are highly variable across the Site and over-time, with the most recent round of monitoring (June 2020) are generally identifying commonly occurring natural elements in excess of Class GA standards or guidance values. The exception to this is for barium chromium, copper, lead, nickel, selenium and thallium concentrations that were identified in excess of Class GA standards or guidance values during the June 2020 monitoring event. Each of these exceedances were limited to samples taken from groundwater monitoring wells SWRMW-4 and SWRMW-5. Identified concentrations could also, at least in part, be attributed to elevated turbidity levels in the groundwater samples taken from SWRMW-4 and SWRMW-5 during the June 2020 monitoring event, which were 496 NTU and 340 NTU, respectively, at the time of sample collection.

Based on the groundwater data received to date, the qualitative exposure assessment assumptions regarding on-Site and off-site contamination have not changed and are still valid. The next round of monitoring is tentatively scheduled for May 2021. Data from historic and future monitoring events will be reviewed and assessed to determine if any significant trends can be discerned.

4.2 Soil Vapor Mitigation

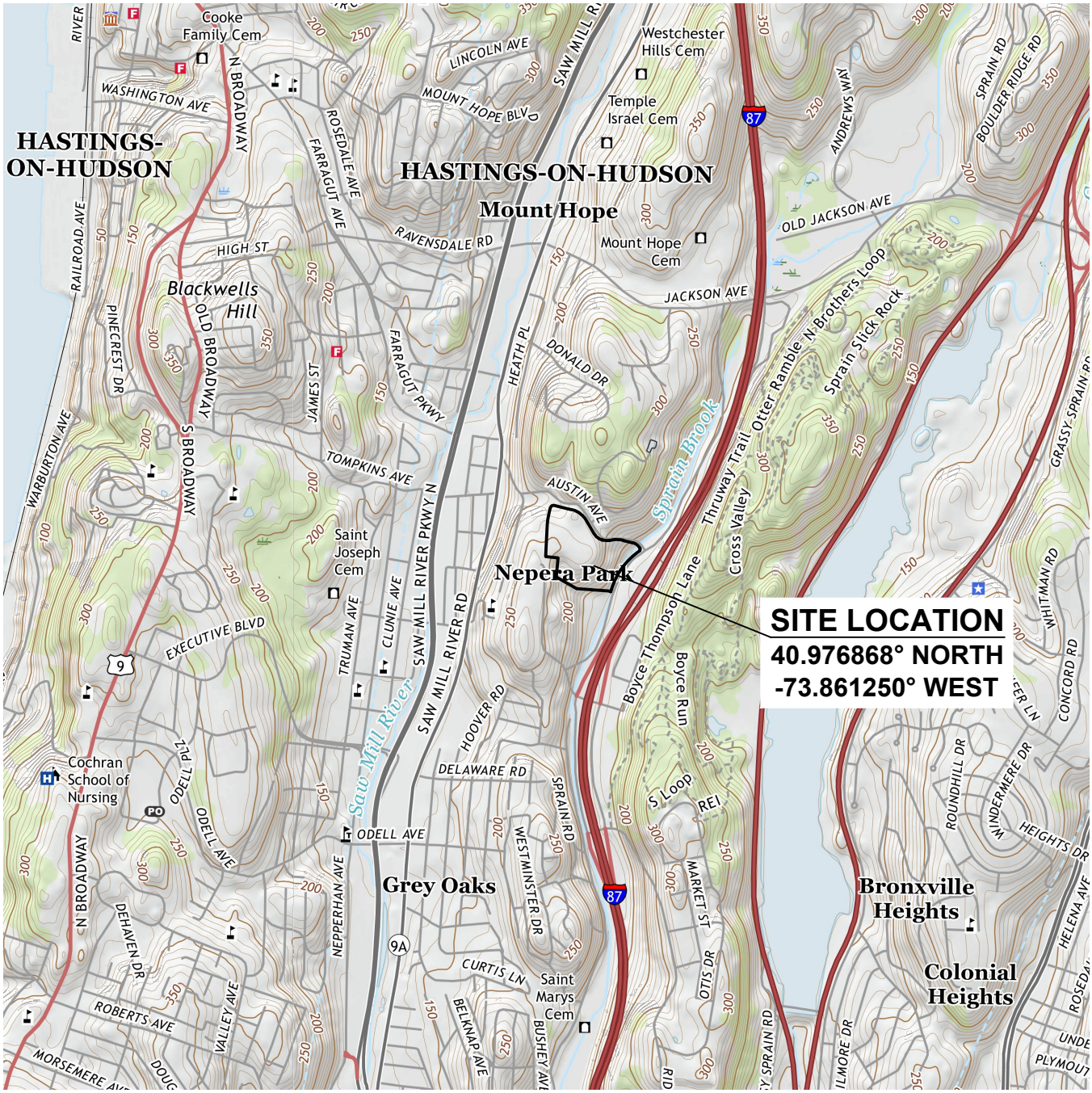
There are currently no structures located on-Site, and, as such, no soil vapor intrusion evaluation, mitigation, or monitoring was conducted. If structures are planned to be built in the future, a soil vapor intrusion evaluation will be conducted and reviewed, appropriate monitoring and/or mitigation measures will be implemented, and inspection of the soil vapor mitigation system and/or monitoring documentation will occur, as appropriate.

5. Recommendations

Based on a review of the annual groundwater data, it is recommended that the ICs and ECs currently in place for the Site remain in place in order to ensure the continued effectiveness and protectiveness of the remedy. Periodic routine maintenance of the soil cover system should continue to be conducted and other maintenance items identified during the annual inspection should be completed, including the following:

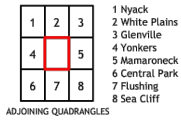
- Mowing/brush hogging should be performed periodically to discourage woody growth on the soil cover system (excluding the steep side slopes designated as park land, as approved by NYSDEC).
- Woody vegetative growth that has become established in the rock retaining wall on the eastern perimeter should be cut and removed to maintain the long-term integrity of the retaining wall.
- Periodic trimming (i.e., annually) should also occur around the groundwater monitoring wells to provide free and easy access during future sampling events and to maintain the integrity of the monitoring points, particularly SWRMW-4 and SWRMW-5, which are outside the limits of the soil cover engineering control. In addition, the location of the monitoring wells should be staked and flagged for ease of identification in the field.
- Monitoring well SWRMW-2, the lock should be replaced.
- The garbage bags observed near the entrance at Stew Leonard Drive should be removed and properly disposed of off-site.
- Based on the potential influence of particles entrained in turbid groundwater samples, it is recommended that future sampling events include sampling and analysis of dissolved metals in addition to total metals analysis. Dissolved metals samples would be collected and filtered for laboratory analysis. The additional data will assist in evaluating the potential groundwater impacts and trends.

Figures



CONTOUR INTERVAL: 10 FEET

MAP TAKEN FROM: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLES:
MOUNT VERNON, NY (2019) &
YONKERS, NY-NJ (2019)
(U.S. GEOLOGICAL SURVEY WEBSITE)



Morris Westchester Junior Retail Associates, LLC
Lot 1 - Austin Avenue Landfill BCP Site
Periodic Review Report

SITE LOCATION MAP

Project No. **11134282**
Report No. **-**
Date **10.29.2020**

FIGURE 1

Filename: G:\111\11134282 Morris Co Lot 1 BCP Site \Periodic Review Reports\September 27, 2019 to September 27, 2020\Figures\Figure 1 - Site Location.dwg
Plot Date: 29 October 2020 - 1:45 PM

NOTES:
1. AERIAL PHOTOGRAPHS ARE 6-INCH RESOLUTION AERIAL PHOTOGRAPHS DATED 2013 AND TAKEN FROM THE NYSGIS CLEARINGHOUSE WEBSITE.
2. LOT 1 BASE MAP FROM A FIELD SURVEY CONDUCTED BY CONTRACTORS LINE AND GRADE SOUTH, LLC, MAY 11, 2011.
3. LOT 4 BASE MAP FROM A FIELD SURVEY CONDUCTED BY JOHN MEYER CONSULTING, P.C. JUNE 30, 2011.
4. NEW TAX PARCEL SUBDIVISION AREAS TAKEN FROM EXHIBIT MAP OF FORMER TAX LOT 1 COMPLETED BY JMC, JULY 2016.

N

0 35 70 105 140'

SCALE 1"=140' AT ORIGINAL SIZE

GHD

Morris Westchester Junior Retail Associates, LLC
Lot 1 - Austin Avenue Landfill BCP Site
Periodic Review Report

SITE LAYOUT

Project No. **11134282**
Report No. **-**
Date **10.29.2020**

FIGURE 2

Filename: G:\11\11134282 Morris Co Lot 1 BCP Site \Periodic Review Reports\September 27, 2019 to September 27, 2020\Figures\Figure 2 - Site Layout.dwg
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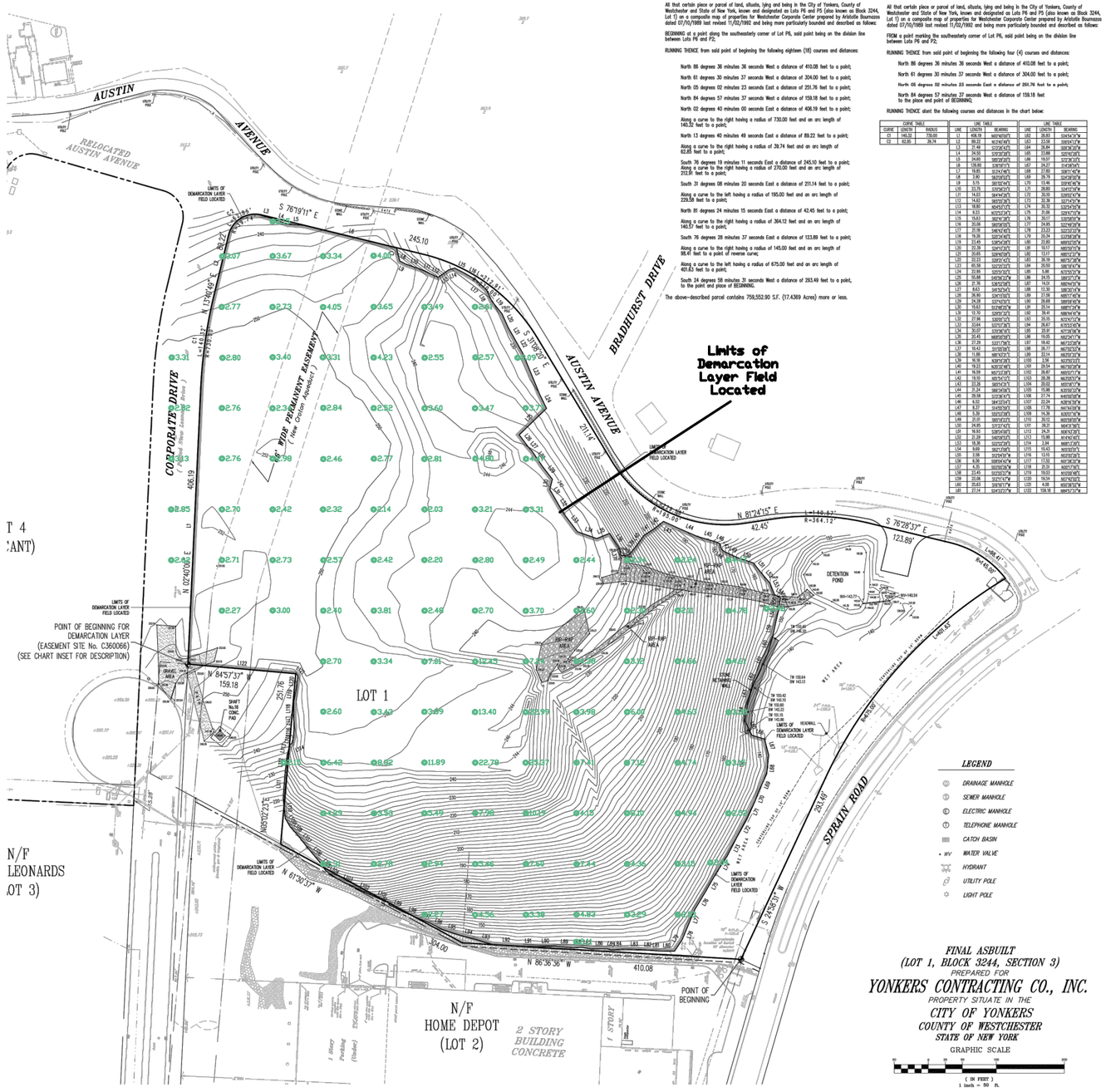


SUBJECT PARCEL DESCRIPTION

(Section 3 Block 3244 Lot 1)

All that certain piece or parcel of land, situate, lying and being in the City of Yonkers, County of Westchester and State of New York, known and designated as Lots P6 and P5 (also known as Block 3244, Lot 1) on a composite map of properties for Westchester Corporate Center prepared by Aristotle Bournazos dated 07/10/1989 last revised 11/02/1992 and being more particularly bounded and described as follows:

BEGINNING at a point along the southeasterly corner of Lot P6, said point being on the division line between Lots P6 and P2;

RUNNING THENCE from said point of beginning the following eighteen (18) courses and distances:

North 86 degrees 36 minutes 36 seconds West a distance of 410.08 feet to a point;

North 61 degrees 30 minutes 37 seconds West a distance of 304.00 feet to a point;

North 05 degrees 02 minutes 23 seconds East a distance of 251.76 feet to a point;

North 84 degrees 57 minutes 37 seconds West a distance of 159.18 feet to a point;

North 02 degrees 40 minutes 00 seconds East a distance of 406.19 feet to a point;

Along a curve to the right having a radius of 730.00 feet and an arc length of 140.32 feet to a point;

North 13 degrees 40 minutes 49 seconds East a distance of 89.22 feet to a point;

Along a curve to the right having a radius of 38.74 feet and an arc length of 62.85 feet to a point;

South 79 degrees 19 minutes 11 seconds East a distance of 245.10 feet to a point;

Along a curve to the right having a radius of 270.00 feet and an arc length of 212.91 feet to a point;

South 31 degrees 08 minutes 20 seconds East a distance of 211.14 feet to a point;

Along a curve to the left having a radius of 195.00 feet and an arc length of 229.56 feet to a point;

North 81 degrees 24 minutes 15 seconds East a distance of 42.45 feet to a point;

Along a curve to the right having a radius of 364.12 feet and an arc length of 140.57 feet to a point;

South 76 degrees 28 minutes 37 seconds East a distance of 123.89 feet to a point;

Along a curve to the right having a radius of 145.00 feet and an arc length of 98.47 feet to a point of reverse curve;

Along a curve to the left having a radius of 675.00 feet and an arc length of 401.63 feet to a point;

South 24 degrees 58 minutes 31 seconds West a distance of 283.49 feet to a point, to the point and place of BEGINNING.

The above-described parcel contains 759,552.90 S.F. (17.4369 Acres) more or less.

ENVIRONMENTAL EASEMENT DESCRIPTION & CHART

DEMARCATION LAYER (EASEMENT SITE No. C360066)

AREA = 615,072.38 S.F. (14.1201 ACRES)

All that certain piece or parcel of land, situate, lying and being in the City of Yonkers, County of Westchester and State of New York, known and designated as Lots P6 and P5 (also known as Block 3244, Lot 1) on a composite map of properties for Westchester Corporate Center prepared by Aristotle Bournazos dated 07/10/1989 last revised 11/02/1992 and being more particularly bounded and described as follows:

FROM a point marking the southeasterly corner of Lot P6, said point being on the division line between Lots P6 and P2;

RUNNING THENCE from said point of beginning the following four (4) courses and distances:

North 86 degrees 36 minutes 36 seconds West a distance of 410.08 feet to a point;

North 61 degrees 30 minutes 37 seconds West a distance of 304.00 feet to a point;

North 05 degrees 02 minutes 23 seconds East a distance of 264.76 feet to a point;

North 84 degrees 57 minutes 37 seconds West a distance of 159.18 feet to the place and point of BEGINNING;

RUNNING THENCE along the following courses and distances in the chart below:

CURVE TABLE		
CURVE	LENGTH	RADIUS
C1	140.32	730.00
C2	62.85	38.74

LINE TABLE		
LINE	LENGTH	BEARING
L1	406.19	N02°40'00"E
L2	89.22	N13°40'49"E
L3	21.40	S73°24'47"E
L4	24.50	S70°20'08"E
L5	24.60	S80°20'23"E
L6	178.60	S76°19'11"E
L7	19.95	S13°40'49"W
L8	3.90	S63°59'05"E
L9	5.73	S01°55'42"E
L10	33.75	S70°04'57"E
L11	14.03	S64°44'28"E
L12	14.42	S60°50'28"E
L13	16.90	S54°57'17"E
L14	9.21	N73°53'24"E
L15	19.63	S82°41'28"E
L16	30.06	S80°08'05"E
L17	20.16	S46°47'47"E
L18	19.26	S00°34'48"E
L19	23.45	S38°47'24"E
L20	32.39	S24°12'28"E
L21	30.65	S28°00'58"E
L22	37.23	S28°21'47"E
L23	45.56	S22°22'21"E
L24	33.95	S25°51'10"E
L25	55.88	S40°04'39"W
L26	21.76	S36°50'48"E
L27	8.63	S41°52'47"E
L28	36.80	S34°43'07"E
L29	24.28	S37°41'15"E
L30	10.63	S37°09'26"W
L31	13.70	S39°51'10"E
L32	27.96	S30°01'14"E
L33	33.64	S25°12'38"E
L34	30.07	S20°38'16"E
L35	20.45	N69°03'59"E
L36	37.28	S31°17'06"E
L37	16.43	S11°00'59"E
L38	11.08	N81°43'13"E
L39	16.16	N34°13'26"E
L40	19.21	N26°24'48"E
L41	14.09	N57°23'39"E
L42	19.70	N01°54'17"E
L43	23.28	S65°54'26"E
L44	31.24	S86°38'58"E
L45	28.58	S73°36'47"E
L46	6.10	S64°23'24"E
L47	8.37	S14°53'50"E
L48	5.78	S00°02'28"E
L49	21.01	S00°03'23"E
L50	24.95	S75°27'47"E
L51	16.63	S38°04'02"E
L52	21.39	S46°08'57"E
L53	18.36	S22°02'24"E
L54	8.69	S82°23'08"E
L55	3.56	S01°44'36"W
L56	4.56	S68°04'47"W
L57	4.35	S01°00'36"W
L58	33.45	S12°03'27"W
L59	33.06	S13°51'47"W
L60	25.83	S18°56'17"W
L61	27.14	S24°33'17"W

LINE TABLE		
LINE	LENGTH	BEARING
L62	35.85	S34°54'37"W
L63	23.56	S08°54'12"W
L64	36.84	S00°36'28"W
L65	33.88	S02°02'28"E
L66	19.57	S73°24'23"E
L67	24.27	S14°08'46"E
L68	27.60	S36°51'40"W
L69	29.79	S14°58'08"W
L70	13.46	S59°46'46"W
L71	25.80	S24°57'49"W
L72	30.70	S39°05'47"W
L73	30.38	S07°54'29"W
L74	36.70	S32°43'50"W
L75	31.06	S26°57'10"W
L76	30.17	S30°08'08"W
L77	24.95	S12°48'10"W
L78	23.53	S22°33'13"W
L79	35.34	S33°08'10"W
L80	23.80	N89°03'07"W
L81	19.57	N80°53'15"W
L82	13.17	N85°12'12"W
L83	36.19	N87°31'38"W
L84	29.50	S86°16'47"W
L85	5.86	N73°03'19"W
L86	24.75	S86°37'17"W
L87	14.10	N86°44'57"W
L88	12.30	S86°24'47"W
L89	37.66	N85°17'40"W
L90	36.68	S89°02'47"W
L91	35.14	N88°27'47"W
L92	38.41	N86°47'47"W
L93	35.15	N79°21'28"W
L94	35.67	N73°22'45"W
L95	35.87	N77°26'36"W
L96	19.65	N82°34'17"W
L97	16.53	N67°32'08"W
L98	26.77	N65°52'57"W
L99	23.54	N63°32'31"W
L100	2.86	N12°30'03"E
L101	25.54	N67°30'38"W
L102	25.87	N65°07'17"W
L103	25.78	N63°55'57"W
L104	20.02	N55°45'17"W
L105	15.66	N39°05'32"W
L106	27.74	N45°08'59"W
L107	23.24	N76°38'38"W
L108	11.78	N47°48'58"W
L109	14.36	N29°07'36"W
L110	20.12	N05°08'06"W
L111	39.21	N04°21'38"E
L112	24.31	N06°42'26"E
L113	15.66	N14°46'46"E
L114	2.84	N88°47'28"E
L115	15.43	N05°05'37"E
L116	13.55	N03°39'28"E
L117	17.02	N07°38'28"E
L118	21.02	N30°07'36"E
L119	19.03	N05°00'48"E
L120	19.54	N01°40'46"E
L121	4.08	N05°38'58"W
L122	159.18	N84°57'37"W

Legend:

2.20 Soil Cover Thickness in Feet

Notes:

1. Minimum of 2-feet of clean fill placed over entire BCP Site to the limits of demarcation layer.
2. Survey provided by Contractors Line & Grade South LLC (May, 2011).

FINAL ASBUILT
(LOT 1, BLOCK 3244, SECTION 3)
PREPARED FOR
YONKERS CONTRACTING CO., INC.
PROPERTY SITUATE IN THE
CITY OF YONKERS
COUNTY OF WESTCHESTER
STATE OF NEW YORK

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

GHD

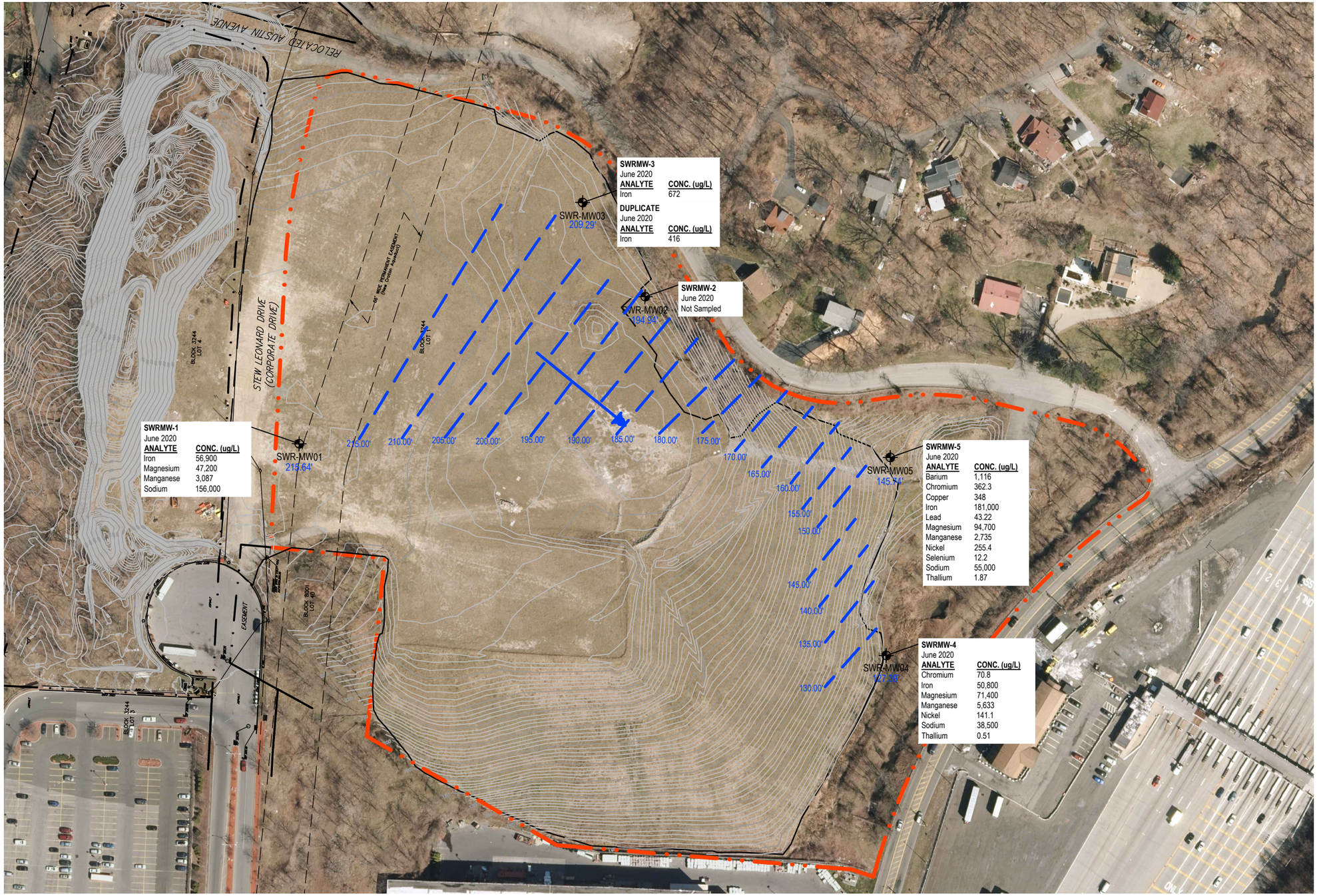
Morris Westchester Junior Retail Associates, LLC
Lot 1 - Austin Avenue Landfill BCP Site
Periodic Review Report

SOIL COVER AREAS

Project No. **11134282**
Report No. **-**
Date **10.29.2020**

FIGURE 3

Filename: G:\111\11134282 Morris Co Lot 1 BCP Site \Periodic Review Reports\September 27, 2019 to September 27, 2020\Figures\Figure 3 - Cover Areas.dwg
Plot Date: 29 October 2020 - 1:54 PM



LEGEND:

- Property Boundary (Approximate)
- Extent of Lot 1 Geotextile Demarcation Layer and BCP Site (Approximate)
- SWR-MW01 — Groundwater Monitoring Well Location and ID (Approximate)
- 195.27' — Groundwater Elevation (June 2020 Sampling Event)
- Groundwater Elevation Contour and Presumed Flow (June 2020 Sampling Event, Approximate)
- CONC. (ug/L) — Detected Concentration in ug/L (June 2020 Sampling Event)

ug/L - micrograms per liter, parts per billion

Only exceedances of the Class GA groundwater standards or guidance values are shown here. For a complete summary of analytical results, refer to the tables.

NOTES:

1. AERIAL PHOTOGRAPHS ARE 6-INCH RESOLUTION AERIAL PHOTOGRAPHS DATED 2013 AND TAKEN FROM THE NYSGIS CLEARINGHOUSE WEBSITE.
2. LOT 1 BASE MAP FROM A FIELD SURVEY CONDUCTED BY CONTRACTORS LINE AND GRADE SOUTH, LLC, MAY 11, 2011.
3. LOT 4 BASE MAP FROM A FIELD SURVEY CONDUCTED BY JOHN MEYER CONSULTING, P.C. JUNE 30, 2011.
4. EXTENT OF ASH FROM EXISTING CONDITIONS, PLATE 1, MORRIS WESTCHESTER CONSTRUCTION COMPANY, L.L.P. HISTORIC AUSTIN AVENUE LANDFILL CLOSURE PLAN, LEGGETTE, BRASHEARS, & GRAHAM ENGINEERING SERVICES, P.C. MARCH 1988. REVISED BY S&W REDEVELOPMENT OF NORTH AMERICA, LLC, MAY 2011. FURTHER REVISED BY GHD CONSULTING ENGINEERS, LLC, DECEMBER 2012.

N

0 35 70 105 140'

SCALE 1"=140' AT ORIGINAL SIZE

GHD

Morris Westchester Junior Retail Associates, LLC
Lot 1 - Austin Avenue Landfill BCP Site
Periodic Review Report

GROUNDWATER ELEVATION CONTOURS AND EXCEEDANCES OF GROUNDWATER STANDARDS

Project No. **11134282**
Report No. **-**
Date **10.29.2020**

FIGURE 4

Filename: G:\111\11134282 Morris Co Lot 1 BCP Site \Periodic Review Reports\September 27, 2019 to September 27, 2020\Figures\Figure 4 - GW Contours and Exceedances.dwg
Plot Date: 29 October 2020 - 1:56 PM

Tables

Table 1 (Page 1 of 1): Groundwater Elevation Data. Lot 1 - Austin Avenue Landfill, Yonkers, NY. BCP Site No. C360066.

Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Volume (gal)
SWRMW-1	Mar-07	Top of PVC	253.54	37.18	44.00	216.36	1.09
	Jun-07			37.48	44.00	216.06	1.04
	Nov-16			-	-	-	-
	May-17			36.92	42.65	216.62	0.92
	Nov-17			39.87	42.90	213.67	0.48
	Jun-18			37.47	42.90	216.07	0.87
	May-19			37.03	42.90	216.51	0.94
	Jun-20			37.90	42.90	215.64	0.80
SWRMW-2	Mar-07	Top of PVC	236.82	39.85	44.00	196.97	0.66
	Jun-07			40.17	44.00	196.65	0.61
	Nov-16			42.12	46.35	194.70	0.68
	May-17			41.18	48.38	195.64	1.15
	Nov-17			-	-	-	-
	Jun-18			41.55	48.38	195.27	1.09
	May-19			40.77	48.38	196.05	1.22
	Jun-20			41.88	48.38	194.94	1.04
SWRMW-3	Mar-07	Top of PVC	235.74	24.10	30.00	211.64	0.94
	Jun-07			24.14	30.00	211.60	0.94
	Nov-16			28.23	31.65	207.51	0.55
	May-17			26.80	35.62	208.94	1.41
	Nov-17			31.05	35.70	204.69	0.74
	Jun-18			26.58	35.70	209.16	1.46
	May-19			26.11	35.70	209.63	1.53
	Jun-20			26.45	35.70	209.29	1.48
SWRMW-4	Mar-07	Top of PVC	134.89	6.61	16.00	128.28	1.50
	Jun-07			6.51	16.00	128.38	1.52
	Nov-16			7.51	18.10	127.38	1.69
	May-17			6.45	18.20	128.44	1.88
	Nov-17			8.05	18.32	126.84	1.64
	Jun-18			6.76	18.32	128.13	1.85
	May-19			6.44	18.32	128.45	1.90
	Jun-20			7.50	18.32	127.39	1.73
SWRMW-5	Mar-07	Top of PVC	156.72	6.75	19.40	149.97	2.02
	Jun-07			8.49	19.40	148.23	1.75
	Nov-16			11.13	20.47	145.59	1.49
	May-17			9.05	22.65	147.67	2.18
	Nov-17			13.22	22.97	143.50	1.56
	Jun-18			10.31	22.97	146.41	2.03
	May-19			9.10	22.97	147.62	2.22
	Jun-20			10.98	22.97	145.74	1.92

DTW - Depth to Water
DOW - Depth of Well
gal - Gallons

Table 2 (Page 1 of 4): Summary of Groundwater Field Parameters. Lot 1 - Austin Avenue Landfill, Yonkers, NY. BCP Site No. C360066.

Well I.D.	Date	Time	Purge Method	Temp (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (gal)	Comments
SWRMW-1	3/14/2007	8:00	Bailer	11.80	0.397	0.99	6.47	56.8	3989.9	-	-
	6/5/2007	12:00	Bailer	18.54	0.343	3.40	6.17	-80.9	1236.8	-	-
	11/17/2016	-	-	-	-	-	-	-	-	-	Well found to be damaged and broken. No sample taken.
	5/23/2017	10:50	Pump	14.90	0.306	0.58	6.84	66.0	14.8	-	Yellowish, sewer odor, some sediment, slightly turbid, no sheen. NOTE: took pesticide sample w/ bailer at 4PM. Sample at 11:01 and 11:13 were below the pump.
		10:56		15.00	0.313	0.42	6.85	69.3	18.1		
		11:01		15.30	0.317	0.34	6.86	74.3	24.7		
		11:13		16.20	0.327	0.57	6.86	58.7	49.7		
	11/14/2017	8:35	Pump	-	-	-	-	-	-	-	Water level was at a level below the meter's ability to read so shut down well to let recharge. MS/MSD and blind field duplicate taken at this location.
		8:50		8.63	1.05	1.62	6.09	59	105		
		8:55		8.96	1.02	0.99	6.08	0.0	87.1		
	6/4/2018	12:50	Pump	12.7	1.96	1.96	6.19	119	823	-	Cloudy brown, no odor
		12:55		12.6	1.98	0.96	6.23	102	811		
		13:00		12.5	1.99	0.19	6.31	100	614		
		13:05		12.3	1.98	0.22	6.31	96	510		
		17:10		12.3	1.96	0.22	6.39	101	410		
		17:15		12.4	1.99	0.21	6.4	96	519		
		17:20		12.5	1.92	0.23	6.42	101	631		
	5/30/2019	16:50	Pump	12.2	2.110	1.99	6.11	100	>999	0.66	Water was cloudy brown with no odor. Well dry after 17:15.
		16:55		12.4	1.980	0.77	6.11	67	>999		
		17:00		12.6	1.950	0.33	6.11	70	899		
		17:05		12.2	1.900	0.24	6.10	77	877		
		17:10		12.2	1.870	0.10	6.10	78	822		
		17:15		12.2	1.880	0.11	6.10	76	816		
	6/11/2020	11:40	Pump	14.1	1.760	1.19	6.69	-119	>999	1	Water was cloudy brown with no odor.
		11:45		13.9	1.670	1.26	6.66	-62	496		
		11:50		13.7	1.620	0.91	6.61	-59	512		
		11:55		13.7	1.620	1.00	6.62	-49	410		
		12:00		14.1	1.610	0.96	6.61	-48	396		
		12:05		13.9	1.600	0.90	6.61	-46	411		
		12:10		13.9	1.550	0.82	6.60	-44	420		
		12:15		13.8	1.590	0.80	6.59	-43	407		
SWRMW-2	3/14/2007	10:22	Bailer	13.04	0.258	4.00	6.90	312.2	3998.2	-	-
	6/5/2007	13:00	Bailer	14.10	0.243	4.27	6.38	-69.4	1193.7	-	-

Table 2 (Page 2 of 4): Summary of Groundwater Field Parameters. Lot 1 - Austin Avenue Landfill, Yonkers, NY. BCP Site No. C360066.

Well I.D.	Date	Time	Purge Method	Temp (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (gal)	Comments
SWRMW-3	3/14/2007	11:02	Bailer	12.11	0.264	5.92	6.68	178.6	3989.9	-	-
	6/5/2007	13:30	Bailer	14.07	0.254	4.88	6.17	23.3	1194.3	-	-
	11/17/2016	-	-	-	-	-	-	-	-	-	Pump clogged by sediment. Tried clearing several times and still could not get it to pump water. No sample taken.
	5/23/2017	14:01	Pump	16.50	0.234	1.51	5.71	63.8	97.7	-	Murky yellow, no odor, no sheen, moderate turbidity. Took Duplicate at SWRMW-3
		14:06		15.80	0.229	1.20	5.67	66.0	67.3		
		14:11		15.50	0.227	1.05	5.69	28.3	62.4		
		14:16		15.70	0.227	0.95	5.70	36.6	53.2		
		14:21		15.90	0.227	0.90	5.69	54.8	55.2		
		14:26		15.80	0.226	0.88	5.69	69.1	57.5		
		14:35		15.00	0.220	0.85	5.67	95.9	52.0		
		14:40		15.20	0.220	0.84	5.67	104.3	50.2		
		14:45		15.50	0.222	0.82	5.67	114.3	55.7		
	11/15/2017	10:40	Pump	10.9	0.320	1.62	5.71	26.7	896	-	-
		10:45		10.9	0.317	1.61	5.63	44	290		
		10:50		10.8	0.309	1.59	5.56	60	112		
		10:55		10.9	0.301	1.91	5.52	79	96		
		11:00		10.9	0.299	2.03	5.51	87	35		
		11:05		10.9	0.293	1.96	5.49	99	17		
		11:10		10.8	0.289	1.90	5.48	18	11		
		11:15		10.8	0.287	1.69	5.47	112	20		
		11:20		10.8	0.285	1.62	5.47	119	20		
		11:25		10.9	0.284	1.60	5.46	121	17		
		11:30		10.9	0.285	1.60	5.46	123	19		
	6/5/2018	15:30	Pump	14.0	0.326	1.11	5.50	96	381	-	Slightly cloudy, light brown, no odor. Took Duplicate at SWRMW-3.
		15:35		13.1	0.305	1.16	5.17	136	167		
		15:40		12.9	0.302	1.11	5.08	161	52		Clear, no odor
		15:45		12.7	0.302	1.02	5.05	170	41		
		15:50		12.4	0.301	0.97	5.03	173	32		
		15:55		12.5	0.301	0.96	5.01	177	31		
		16:00		12.4	0.301	0.93	5.01	181	34		
		16:05		12.5	0.301	0.91	5.01	183	33		
		16:10		12.4	0.300	0.90	5.01	182	30		
		16:15		12.4	0.301	0.89	5.00	184	31		
	5/31/2019	9:30	Pump	13.1	0.296	1.10	6.02	119	119	4.62	9:30-9:35 the water was slightly cloudy, light brown, with no odor. Afetr 9:40 the water was clear with no odor.
		9:35		12.4	0.219	0.17	5.61	100	196		
		9:40		12.3	0.212	0.10	5.50	94	100		
		9:45		12.3	0.210	0.09	5.47	92	90		
		9:50		12.2	0.209	0.09	5.40	100	41		
		9:55		12.2	0.209	0.09	5.40	103	30		
		10:00		12.2	0.208	0.09	5.38	105	24		
		10:05		12.2	0.208	0.09	5.38	107	22		
	6/11/2020	10:25	Pump	17.2	0.239	1.09	6.72	194	225	2	Water was slightly cloudy and light brown to clear with no odor with purge. Duplicate sample taken at this location.
		10:30		13.0	0.211	1.01	6.00	199	126		
		10:35		12.9	0.202	0.76	5.65	205	73		
		10:40		12.7	0.194	0.52	5.59	211	26		
		10:45		12.5	0.192	0.44	5.44	234	19		
		10:50		12.3	0.189	0.39	5.47	240	12		
		10:55		12.3	0.188	0.33	5.51	237	4		
		11:00		12.3	0.187	0.29	5.51	240	6		

Table 2 (Page 3 of 4): Summary of Groundwater Field Parameters. Lot 1 - Austin Avenue Landfill, Yonkers, NY. BCP Site No. C360066.

Well I.D.	Date	Time	Purge Method	Temp (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (gal)	Comments
SWRMW-4	3/14/2007	13:00	Bailer	7.55	0.784	3.98	6.98	292.9	2510.9	-	-
	6/6/2007	9:04	Pump	11.68	0.645	3.55	6.19	-163.9	166.4	-	-
		9:08		11.84	0.640	3.33	6.13	-162.3	76.3		
		9:10		12.16	0.641	3.16	6.11	-165.2	26.0		
	11/17/2016	12:48	Pump	13.41	1.357	4.66	7.04	183.9	727.3	5.25	YSI come disconnected and would not re-establish connection. Could not take field parameters to determine when well stabilized. Well was purged of 3 volumes and then sampled. Water turbid brown, no odor, no sheen.
	5/23/2017	17:43	Pump	13.00	1.007	2.25	6.31	105.1	300.1	-	Brown, turbid, no odor, no sheen. Took MS/MSD at SWRMW-4
		17:48		12.10	0.986	0.82	6.27	133.4	186.4		
		17:52		12.10	0.987	0.74	6.27	139.6	172.4		
		17:57		12.00	0.987	0.66	6.28	146.8	89.0		
		18:01		11.90	0.986	0.64	6.29	150.2	89.8		
		18:05		11.90	0.986	0.63	6.29	152	87.2		
	11/15/2017	8:45	Pump	10.06	0.958	5.08	5.89	NR	969	-	-
		8:50		10.70	0.988	4.14	5.92	NR	510		
		8:55		10.47	1.030	4.16	5.85	NR	336		
		9:00		10.29	1.130	4.08	5.90	NR	222		
		9:10		11.17	1.260	3.40	5.92	NR	112		
		9:15		11.31	1.230	3.44	5.91	NR	122		
		9:20		11.24	1.260	3.11	5.93	NR	95.8		
		9:25		11.32	1.250	3.62	5.99	NR	75.7		
		9:30		11.44	1.260	3.34	6.05	NR	60.1		
		9:35		11.40	1.270	3.04	6.01	NR	56.5		
		9:40		11.50	1.280	3.02	6.05	NR	53.7		
		9:45		11.51	1.270	2.96	6.01	NR	48.7		
		9:50		11.55	1.280	2.75	6.01	NR	42.7		
	6/5/2018	10:45	Pump	14.40	1.960	1.90	6.01	190.0	196.0	-	Slightly cloudy, light brown, no odor
		10:50		14.00	1.800	0.96	5.96	182.0	311.0		
		10:55		13.70	1.640	0.94	5.95	181.0	400.0		
		11:00		13.50	1.550	0.90	6.06	180.0	376.0		
		11:05		13.00	1.540	0.98	6.10	179.0	300.0		
		11:10		13.00	1.530	0.82	6.11	179.0	319.0		
		11:15		13.00	1.540	0.80	6.12	176.0	312.0		
		11:20		13.10	1.540	0.79	6.11	179.0	341.0		
		11:25		13.10	1.530	0.79	6.10	180.0	319.0		
		11:30		13.10	1.530	0.76	6.10	177.0	296.0		
	5/30/2019	18:05	Pump	12.9	2.110	2.99	6.33	211	444	3.96	Water was slightly cloudy, light brown, with no odor.
		18:10		12.8	2.090	0.34	6.31	200	342		
		18:15		12.7	1.790	0.45	6.30	199	211		
		18:20		12.7	1.760	0.46	6.31	198	200		
		18:25		12.7	1.760	0.33	6.30	199	123		
		18:30		12.6	1.750	0.48	6.31	200	144		
		18:35		12.7	1.760	0.48	6.31	202	135		
	6/11/2020	10:55	Pump	21.1	1.990	5.56	6.10	190	>999	2.00	Water was slightly cloudy, light brown, with no odor.
		11:00		20.9	1.990	5.19	6.12	191	>999		
		11:05		20.1	2.010	5.09	6.14	199	>999		
		11:10		20.1	2.040	4.96	6.16	214	714		
		11:15		20.1	2.070	4.99	6.17	215	590		
		11:20		20.0	2.060	4.91	6.17	217	670		
		11:25		20.0	2.060	4.11	6.16	219	511		
		11:30		20.0	2.060	4.33	6.17	219	496		

Table 2 (Page 4 of 4): Summary of Groundwater Field Parameters. Lot 1 - Austin Avenue Landfill, Yonkers, NY. BCP Site No. C360066.

Well I.D.	Date	Time	Purge Method	Temp (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (gal)	Comments
SWRMW-5	3/14/2007	12:30	Bailer	10.44	0.558	4.11	6.89	299.7	99.0	-	-
	6/6/2007	7:50	Pump	10.89	0.554	0.80	5.95	-247.1	152.6	-	-
		7:54		10.84	0.543	0.58	5.93	-265.1	68.8		
		7:57		10.80	0.541	0.43	5.94	-279.2	12.8		
	11/17/2016	10:58	Pump	16.25	1.060	8.16	7.87	136.7	317.4	1.25	Water slight brown tint, no sheen, no odor
		11:04		15.95	1.038	7.38	6.90	142.0	260.4		
		11:09		15.80	1.030	5.49	6.68	148.5	198.3		
		11:17		15.79	1.023	2.61	6.56	154.9	97.5		
		11:26		15.82	1.025	2.34	6.52	158.4	52.5		
		11:33		15.80	1.024	2.43	6.50	160.3	44.2		
	5/23/2017	17:00	Pump	-	-	-	-	-	-	-	-
		17:05		13.60	0.681	0.83	6.37	129.8	499.0		
		17:10		12.80	0.667	0.44	6.36	140.6	379.0		
		17:15		12.70	0.664	0.26	6.37	142.3	167.0		
		17:20		12.50	0.660	0.16	6.35	146.4	168.3		
		17:25		12.50	0.655	0.06	6.36	147.2	114.0		
		17:30		12.40	0.659	0.09	6.36	149.1	81.0		
		17:35		12.30	0.657	0.07	6.37	151.5	56.6		
		17:40		12.30	0.657	0.70	6.37	151.7	49.4		
		17:45		12.30	0.657	0.00	6.37	151.9	44.7		
		17:50		12.20	0.657	0.01	6.37	153.3	37.0		
		17:55		12.10	0.656	0.00	6.37	153.3	19.3		
		18:00		12.10	0.656	0.00	6.37	153.2	18.5		
		18:05		12.10	0.655	0.00	6.37	153.1	18.1		
	11/15/2017	13:30	Pump	14.6	1.129	1.35	6.23	122	2100	-	-
		13:35		14.7	1.119	1.20	6.23	119	1740		
		13:40		14.9	1.116	1.02	6.24	111	979		
		13:45		14.9	1.119	0.99	6.24	108	776		
		13:50		14.9	1.121	0.96	6.24	108	568		
		13:55		14.9	1.122	0.89	6.24	107	229		
		14:00		14.9	1.123	0.88	6.24	108	150		
		14:05		14.9	1.127	0.71	6.25	107	77		
		14:10		14.9	1.137	0.68	6.25	109	62		
		14:15		14.9	1.134	0.63	6.24	111	66		
		14:20		14.9	1.133	0.61	6.24	112	64		
	6/5/2018	8:25	Pump	14.4	1.710	2.16	6.17	211	1140	-	Cloudy, Brown
		8:30		14.5	1.190	2.19	6.13	200	960		
		8:35		14.0	1.180	1.31	6.09	160	900		
		8:40		13.3	1.160	1.30	6.08	161	903		
		8:45		13.4	1.150	1.20	6.08	159	710		
		8:50		13.3	1.140	1.19	6.09	158	600		
		8:55		13.3	1.130	1.21	6.08	157	491		
		9:00		13.3	1.120	1.21	6.08	157	239		Slightly Cloudy, Brown
		9:05		13.3	1.120	1.19	6.09	157	247		
		9:10		13.4	1.130	1.17	6.09	158	313		
	5/31/2019	7:45	Pump	13.3	1.990	1.99	6.33	190	>999	3.96	Cloudy, Brown
		7:50		13.0	1.430	1.97	6.32	118	>999		
		7:55		12.9	1.450	2.11	6.31	177	444		
		8:00		13.0	1.420	2.09	6.33	155	511		
		8:05		12.9	1.450	1.98	6.34	150	567		
		8:10		12.8	1.430	1.97	6.23	149	435		
		8:15		12.8	1.430	1.93	6.33	153	499		
	6/11/2020	6:25	Pump	19.6	1.990	1.97	6.22	190	>999	2	Water was cloudy brown, no odor.
		6:30		19.0	1.980	1.09	6.21	188	>999		
		6:35		19.1	1.970	1.11	6.20	180	419		
		6:40		19.0	1.960	1.14	6.19	175	496		
		6:45		19.0	1.990	0.96	6.21	173	311		
		6:50		18.9	1.980	0.91	6.19	170	309		
		6:55		18.9	1.970	0.90	6.22	170	314		
		7:00		18.9	1.960	0.88	6.23	169	340		

Table 3
Summary of Groundwater Laboratory Analytical Results

Analyte (ug/L)	Class GA Standards	SWRMW-1									
		3/14/2007	6/5/2007		11/17/2016	5/23/2017	11/14/2017	6/4/2018	5/30/2019	6/11/2020	
		Total	Total	Dissolved	Total	Total	Total	Total	Total	Total	
Metals by EPA Methods 6020A and 7470A											
Aluminum		437,000	870 J	130 J	NS	1,260	33	13,600	31,500	9,400	
Antimony	3	U	U	U	NS	0.69 J	U	U	0.78 J	0.57	J
Arsenic	25	21 J	U	U	NS	1.51	1.11	3.85	13.12	2.8	
Barium	1,000	**5,900**	500	480	NS	67.49	304.7	410.5	841	388.3	
Beryllium	3	**9.7 J**	U	U	NS	U	U	U	0.96	0.2	J
Cadmium	5	**29 J**	U	U	NS	0.21	U	0.88	2.41	0.47	
Calcium		298,000	302,000	312,000	NS	62,200	197,000	204,000	207,000	158,000	
Chromium	50	**950**	2.9 J	1.5 J	NS	3.32	1.95	**54.13**	**318.6**	31.81	
Cobalt		290	U	U	NS	4.04	2.15	22.25	42.3	10.67	
Copper	200	**990**	3.2 J	U	NS	11.52	0.59 J	96.06	**206.4**	49.98	
Iron	300	**877,000**	**87,600**	**83,800**	NS	**2,760**	**45,700**	**76,300**	**94,000**	**56,900**	
Lead	25	**820 J**	U	U	NS	5.21	U	**33.38**	**120.6**	20.38	
Magnesium	35,000 (G)	**258,000**	**112,000**	**114,000**	NS	9,370	**40,300**	**41,400**	**54,800**	**47,200**	
Manganese	300	**10,900**	**4,900**	**5,000**	NS	**1,974**	**3,132**	**8,459**	**6,987**	**3,087**	
Mercury	0.7	0.6 J	U	U	NS	U	0.1 J	U	U		U
Nickel	100	**590**	2.9 J	2.8 J	NS	10.94	2.17	56.1	**316.2**	30.54	
Potassium		403,000	153,000	152,000	NS	11,300	46,100	40,800	65,200	62,600	
Selenium	10	U	U	U	NS	U	U	U	8.69	2.42	J
Silver	50	U	U	U	NS	U	U	1.61	3.2	0.43	
Sodium	20,000	**153,000**	**148,000**	**148,000**	NS	6,550	**116,000**	**62,500**	**109,000**	**156,000**	
Thallium	0.5	U	U	U	NS	U	U	U	**0.95**	0.38	J
Vanadium		1,200	2.8 J	0.94 J	NS	3.82 J	1.69 J	42.73	106.5	30.78	
Zinc	2,000	**2,500**	U	U	NS	20.74	U	169.6	425.5	131.3	

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Bold Thick Outlined Cell indicates an exceedance of applicable NYSDEC Class GA Standard or Guidance Value

All concentrations reported in micrograms per liter (ug/L) - parts per billion (ppb)

Table 3
Summary of Groundwater Laboratory Analytical Results

Analyte (ug/L)	Class GA Standards	SWRMW-2									
		3/14/2007	6/5/2007		11/17/2016	5/23/2017	11/14/2017	6/4/2018	5/30/2019	6/11/2020
		Total	Total	Dissolved	Total	Total	Total	Total	Total	Total
Metals by EPA Methods 6020A and 7470A										
Aluminum		154,000	740 J	500 U	NS	NS	NS	NS	NS	NS
Antimony	3	U	U	U	NS	NS	NS	NS	NS	NS
Arsenic	25	**44 J**	U	U	NS	NS	NS	NS	NS	NS
Barium	1,000	**2,200**	100	120	NS	NS	NS	NS	NS	NS
Beryllium	3	**6.2 J**	U	U	NS	NS	NS	NS	NS	NS
Cadmium	5	**11 J**	U	U	NS	NS	NS	NS	NS	NS
Calcium		40,400	25,500	38,800	NS	NS	NS	NS	NS	NS
Chromium	50	**460**	2.1 J	U	NS	NS	NS	NS	NS	NS
Cobalt		130	2 J	U	NS	NS	NS	NS	NS	NS
Copper	200	**790**	4.5 J	U	NS	NS	NS	NS	NS	NS
Iron	300	**320,000**	**2,300**	**570**	NS	NS	NS	NS	NS	NS
Lead	25	**2,400 J**	16	U	NS	NS	NS	NS	NS	NS
Magnesium	35,000 (G)	**52,500**	9,500	14,300	NS	NS	NS	NS	NS	NS
Manganese	300	**7,000**	**320**	**340**	NS	NS	NS	NS	NS	NS
Mercury	0.7	**0.81 J**	U	U	NS	NS	NS	NS	NS	NS
Nickel	100	**290**	1.7 J	U	NS	NS	NS	NS	NS	NS
Potassium		29,100	7,200	9,000	NS	NS	NS	NS	NS	NS
Selenium	10	U	U	U	NS	NS	NS	NS	NS	NS
Silver	50	3.9 J	U	U	NS	NS	NS	NS	NS	NS
Sodium	20,000	**22,900**	14,800	16,300	NS	NS	NS	NS	NS	NS
Thallium	0.5	U	U	U	NS	NS	NS	NS	NS	NS
Vanadium		420	1.6 J	U	NS	NS	NS	NS	NS	NS
Zinc	2,000	**2,700**	22 J	U	NS	NS	NS	NS	NS	NS

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Table 3
Summary of Groundwater Laboratory Analytical Results

Analyte (ug/L)	Class GA Standards	SWRMW-3									
		3/14/2007	6/5/2007		11/17/2016	5/23/2017	11/15/2017	6/4/2018	5/30/2019	6/11/2020	
		Total	Total	Dissolved	Total	Total	Total	Total	Total	Total	
Metals by EPA Methods 6020A and 7470A											
Aluminum		206,000	2,400 J	500 U	NS	751	430	154	405	81.4	
Antimony	3	U	U	U	NS	U	U	U	U		U
Arsenic	25	**90**	U	U	NS	0.75	0.21 J	U	0.26 J		U
Barium	1,000	**1,800**	48	28	NS	45.17	43.95	44.58	37.46	30.04	
Beryllium	3	**5.5 J**	U	U	NS	U	U	U	U		U
Cadmium	5	**10 J**	U	U	NS	U	U	U	U		U
Calcium		55,300	17,900	18,400	NS	20,500	22,700	22,200	17,900	16,300	
Chromium	50	**620**	6.5 J	10 U	NS	3.18	1.94	1.04	1.93	0.55	J
Cobalt		190	4.1 J	2.5 J	NS	1.09	1.5	0.87	0.83	0.61	
Copper	200	**460**	6.6 J	U	NS	2.21	1.87	1.46	1.96	0.58	J
Iron	300	**353,000**	**4,100**	U	NS	**2,880**	**1,080**	**871**	**1,220**	**672**	
Lead	25	**460 J**	6.9 J	U	NS	4.04	1.04	U	1.33		U
Magnesium	35,000 (G)	**107,000**	7,000	6,100	NS	7,290	7,910	7,950	6,450	5,730	
Manganese	300	**3,500**	170	**400**	NS	20.32	32.39	21.97	12.68	10.12	
Mercury	0.7	0.24 J	U	U	NS	U	U	U	U		U
Nickel	100	**560**	7 J	U	NS	4.26	4.02	2.58	3.78	2.74	
Potassium		78,700	4,500	4,100	NS	6,140	6,030	5,740	5,430	4,710	
Selenium	10	U	U	U	NS	U	U	U	U		U
Silver	50	U	U	U	NS	U	U	U	0.66		U
Sodium	20,000	**24,600**	8,800	8,500	NS	18,100	17,200	17,100	13,500	12,200	
Thallium	0.5	U	U	U	NS	U	U	U	U		U
Vanadium		500	5.3	U	NS	2.55 J	U	U	U		U
Zinc	2,000	990	11 J	U	NS	U	4.99 J	U	5.44 J		U

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Table 3
Summary of Groundwater Laboratory Analytical Results

Analyte (ug/L)	Class GA Standards	SWRMW-4								
		3/14/2007	6/6/2007		11/17/2016	5/23/2017	11/15/2017	6/4/2018	5/30/2019	6/11/2020
		Total	Total	Dissolved	Total	Total	Total	Total	Total	Total
Metals by EPA Methods 6020A and 7470A										
Aluminum		101,000	5,000 J	U	7,430	1,990	810	19,200	5,460	24,600
Antimony	3	U	U	U	U	0.56 J	0.46 J	U	U	0.62 J
Arsenic	25	U	U	U	0.8	0.44 J	0.29 J	1.2	1.49	3.19
Barium	1,000	1,000	90	44	153.7	41.78	90.7	248.7	91.18	280.6
Beryllium	3	**3.3 J**	U	U	0.2 J	U	U	U	0.18 J	0.65
Cadmium	5	4.8 J	U	U	0.1 J	0.11 J	U	0.69	0.26	1.27
Calcium		99,100	77,400	79,900	154,000	164,000	160,000	72,900	174,000	148,000
Chromium	50	**280**	13	U	21.2	5.79	2.75	**58.14**	18.33	**70.8**
Cobalt		120	11	U	10.4	3.33	1.5	27.16	7.39	53.75
Copper	200	**460**	28	3 J	40.2	12.77	7.54	98.51	36.42	137.4
Iron	300	**188,000**	**8,700**	57 J	**14,400**	**3,850**	**1,530**	**36,800**	**9,920**	**50,800**
Lead	25	**62 J**	4.4 J	U	4.5	1.21	0.58 J	12.69	6.55	15.65
Magnesium	35,000 (G)	**81,000**	**36,400**	34,800	**49,900**	**58,700**	**58,400**	**36,200**	**72,400**	**71,400**
Manganese	300	**2,400**	**350**	19	**352.6**	264.7	90.25	**1,146**	**356.7**	**5,633**
Mercury	0.7	UJ	U	U	U	U	U	U	U	U
Nickel	100	**250**	14	3.2 J	24.4	14.59	6.7	62.8	24.85	**141.1**
Potassium		51,300	19,000	19,200	13,000	18,800	19,400	20,800	21,200	28,200
Selenium	10	U	U	U	U	U	U	U	7.31	8.55
Silver	50	U	U	U	U	U	U	U	U	U
Sodium	20,000	**59,400**	**41,100**	**45,700**	**74,200**	**35,900**	**49,800**	**46,800**	**45,200**	**38,500**
Thallium	0.5	U	U	U	U	U	U	U	U	**0.51**
Vanadium		280	13	U	22.2	6.04	2.71 J	55.08	16.81	72.2
Zinc	2,000	360	19 J	U	50	9.57 J	3.95 J	104.3	42.8	170.8

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ND - Non-Detect

NS - Not Sampled during monitoring round. SWRMW-2 not part of on-going monitoring.

Bold Thick Outlined Cell indicates an exceedance of applicable NYSDEC Class GA Standard or Guidance Value

All concentrations reported in micrograms per liter (ug/L) - parts per billion (ppb)

Table 3
Summary of Groundwater Laboratory Analytical Results

Analyte (ug/L)	Class GA Standards	SWRMW-5								
		3/14/2007	6/6/2007		11/17/2016	5/23/2017	11/15/2017	6/4/2018	5/30/2019	6/11/2020
		Total	Total	Dissolved	Total	Total	Total	Total	Total	Total
Metals by EPA Methods 6020A and 7470A										
Aluminum		211,000	950 J	U	1,220	226	2,000	6,070	10,000	103,000
Antimony	3	U	U	U	U	0.82 J	U	**4.12**	U	U
Arsenic	25	U	U	U	0.2 J	U	0.39 J	U	2.04	5.01
Barium	1,000	**1,700**	77	71	118.5	78.38	130.1	146.8	222.2	**1,116**
Beryllium	3	**5.6 J**	U	U	U	U	U	U	0.32 J	2.4
Cadmium	5	**8.9 J**	U	U	U	U	U	U	0.46	0.16 J
Calcium		63,100	51,300	53,600	108,000	67,400	106,000	76,600	92,200	84,000
Chromium	50	**740**	3.2 J	U	5.2	0.84 J	7.97	23.01	**51.36**	**362.3**
Cobalt		210	2.1 J	U	1.9	0.78	2.71	6.56	12.83	99.12
Copper	200	**860**	4.5 J	U	6.5	1.94	9.24	26.79	58.31	**348**
Iron	300	**337,000**	**1,400**	U	**1,880**	**360**	**3,110**	**10,300**	**17,100**	**181,000**
Lead	25	**64 J**	U	U	0.5 J	U	0.85 J	2.7	**36.52**	**43.22**
Magnesium	35,000 (G)	**138,000**	24,700	24,900	**40,700**	**28,200**	**41,800**	**35,400**	31,800	**94,700**
Manganese	300	**5,800**	180	180	39	12.76	59.2	160.2	**549.2**	**2,735**
Mercury	0.7	UJ	U	U	U	U	U	U	U	0.27
Nickel	100	**540**	3.4 J	U	4.4	1.35 J	6.27	15.26	47.36	**255.4**
Potassium		88,000	18,100	18,000	30,200	20,300	29,800	22,700	25,500	68,300
Selenium	10	U	U	U	U	U	U	U	2.02 J	**12.2**
Silver	50	U	U	U	U	U	U	U	U	1.16
Sodium	20,000	**63,400**	**53,000**	**54,000**	**62,800**	**58,800**	**59,300**	**57,000**	**38,100**	**55,000**
Thallium	0.5	U	U	U	U	U	U	U	0.22 J	**1.87**
Vanadium		520	1.7 J	U	3 J	U	5.22	14.87	30.15	221.5
Zinc	2,000	490	U	U	6 J	U	6.63 J	16.08	15.71	324.5

*Class GA Groundwater standards taken from Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA ambient water quality standards or guidance values, New York State Department of Environmental Conservation, June 1998 and subsequent addenda

(G) Signifies a NYSDEC guidance value where a standard has not been established.

U - The compound was not detected above the laboratory detection limit.

J - Indicates an estimated value detected between the laboratory detection limit and laboratory reporting limit.

(-) - Indicates analyte was not analyzed for

ND - Non-Detect

NS - Not Sampled during monitoring round. SWRMW-2 not part of on-going monitoring.

Bold Thick Outlined Cell indicates an exceedance of applicable NYSDEC Class GA Standard or Guidance Value

All concentrations reported in micrograms per liter (ug/L) - parts per billion (ppb)

Table 3
Summary of Groundwater Laboratory Analytical Results

Analyte (ug/L)	Class GA Standards	DUPLICATE					
		11/17/2016 Total	5/23/2017 Total	11/15/2017 Total	6/4/2018 Total	5/30/2019 Total	6/11/2020 Total
Metals by EPA Methods 6020A and 7470A		(SWRMW-4)	(SWRMW-3)	(SWRMW-1)	(SWRMW-3)	(SWRMW-3)	(SWRMW-3)
Aluminum		7,160	806	37.1	212	412	76.1
Antimony	3	U	0.92 J	U	U	U	U
Arsenic	25	0.6	0.83	1.27	U	0.22 J	0.16 J
Barium	1,000	150.4	47.07	314.5	44.11	38.16	30.32
Beryllium	3	0.2 J	U	U	U	U	U
Cadmium	5	0.1 J	U	U	U	U	U
Calcium		148,000	20,600	206,000	21,400	18,000	16,000
Chromium	50	20.1	2.9	2.03	1.21	1.99	0.5 J
Cobalt		9.9	1.12	2.21	1.02	0.87	0.61
Copper	200	39.5	2.04	U	1.59	1.72	0.8 J
Iron	300	**13,400**	**2,820**	**48,200**	**890**	**1,190**	**416**
Lead	25	4.4	3.94	U	U	1.31	U
Magnesium	35,000 (G)	**48,700**	7,340	**41,600**	7,560	6,500	5,680
Manganese	300	**341.8**	20.19	**3,271**	22.82	12.93	9.91
Mercury	0.7	U	U	U	U	U	U
Nickel	100	24.7	3.95	1.97 J	2.86	3.39	2.84
Potassium		12,700	6,100	48,100	5,490	5,480	4,720
Selenium	10	U	U	U	U	U	U
Silver	50	U	U	U	U	0.73	U
Sodium	20,000	**73,300**	17,900	**120,000**	16,600	13,400	12,200
Thallium	0.5	0.2 J	U	U	U	U	U
Vanadium		20.3	2.64 J	1.58 J	U	U	U
Zinc	2,000	47.3	3.67 J	U	U	6.32 J	U

*Class GA Groundwater standards taken from Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA ambient water quality standards or guidance values, New York State Department of Environmental Conservation, June 1998 and subsequent addenda

(G) Signifies a NYSDEC guidance value where a standard has not been established.

U - The compound was not detected above the laboratory detection limit.

J - Indicates an estimated value detected between the laboratory detection limit and laboratory reporting limit.

(-) - Indicates analyte was not analyzed for

ND - Non-Detect

NS - Not Sampled during monitoring round. SWRMW-2 not part of on-going monitoring.

Bold Thick Outlined Cell indicates an exceedance of applicable NYSDEC Class GA Standard or Guidance Value

All concentrations reported in micrograms per liter (ug/L) - parts per billion (ppb)

Appendices

Appendix A
Institutional and Engineering Controls Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C360066

Site Name Austin Avenue Landfill

Site Address: 323 Sprain Road Zip Code: 10710
City/Town: Yonkers
County: Westchester
Site Acreage: 14.120

Reporting Period: September 27, 2019 to September 27, 2020

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

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

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

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

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	X
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	☐

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C360066 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
3-3244-1	The City of Yonkers	
		Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan Ground Water Use Restriction O&M Plan

Controls at the site include:

1. Construction and maintenance of a soil cover system consisting of a minimum of 24 inches of imported clean soil fill that meets the criteria for Track 4 Restricted Residential in order to prevent human exposure to contaminated soil/fill remaining at the Site;

2. End use restrictions at the Site limited to Restricted Residential uses, unless there is an expressed written waiver from an appropriate New York State Department;

3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to contamination remaining at the Site;

4. Groundwater use restrictions at the Site, unless it is treated prior to use, and written consent is granted by the NYSDEC/NYSDOH;

5. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting; and

6. Periodic certification of the institutional and engineering controls listed above.

3-3244-4	Morris Westchester Retail Assoc, LLC	
		Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

Controls at the site include:

1. Construction and maintenance of a soil cover system consisting of a minimum of 24 inches of imported clean soil fill that meets the criteria for Track 4 Restricted Residential in order to prevent human exposure to contaminated soil/fill remaining at the Site;

2. End use restrictions at the Site limited to Restricted Residential uses, unless there is an expressed written waiver from an appropriate New York State Department;

3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to contamination remaining at the Site;

4. Groundwater use restrictions at the Site, unless it is treated prior to use, and written consent is granted by the NYSDEC/NYSDOH;

5. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting; and

6. Periodic certification of the institutional and engineering controls listed above.

3-3244-7	Morris Westchester Jr Retail Assoc, LLC	
		Ground Water Use Restriction Soil Management Plan Landuse Restriction

Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Controls at the site include:

1. Construction and maintenance of a soil cover system consisting of a minimum of 24 inches of imported clean soil fill that meets the criteria for Track 4 Restricted Residential in order to prevent human exposure to contaminated soil/fill remaining at the Site;

2. End use restrictions at the Site limited to Restricted Residential uses, unless there is an expressed written waiver from an appropriate New York State Department;

3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to contamination remaining at the Site;

4. Groundwater use restrictions at the Site, unless it is treated prior to use, and written consent is granted by the NYSDEC/NYSDOH;

5. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting; and

6. Periodic certification of the institutional and engineering controls listed above.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
3-3244-1	Cover System
3-3244-4	Cover System
3-3244-7	Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
X	☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C360066

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Keith Morris at Morris Westchester Junior Retail Associates, LLC 350 Veterans Boulevard, Rutherford, New Jersey 07070,
print name print business address

am certifying as Owner and Designated Representative (Owner or Remedial Party)

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

Keith E. Morris
Vice President

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

11/9/2020
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Damian J. Vanetti, P.E. (print name) at GHD Consulting Services Inc. 5788 Widewaters Parkway, Syracuse, New York 13214 (print business address)

am certifying as a Professional Engineer for the Owner and Designated Representative (Owner or Remedial Party)

STATE OF NEW YORK
DAMIAN JAMES VANETTI
No. 068011
LICENSED PROFESSIONAL ENGINEER

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

11-9-20
Date

Appendix B
Site Inspection Form

SITE INSPECTION FORM

Inspections to be conducted annually

SITE: **Former Austin Avenue Site (LOT 1)**
BCP # **C360066**

DATE/TIME: 9-22-20 - 10:00 AM
WEATHER: 60 Deg F; Sunny
Ground surface dry

INSPECTORS NAME: Damian Vanetti

COMPANY NAME: GHD

GENERAL SITE CONDITIONS:

Site Access Control	Stew Leonard Dr gate open, Austin Avenue gate closed/locked
Change in Use	None. Site tenant still uses Stew Leonard drive entrance for staging of equipment
Unauthorized Activities	Plastic bags of refuse left on-site adjacent to access road at Stew Leonards

ENGINEERING CONTROLS

SOIL COVER

Soil Cover Condition	No observed changes other than isolated disturbed areas assoc. with geotech invest.
Vegetative Cover	Site was densely vegetated.
Breach of the Soil Cover	Only as approved as part of the geotechnical investigation, area backfilled and seeded
Woody Growth	Trees are growing on portion of the soil cover, trees on stone retaining wall
Surface Settling	None observed
Burrowing Animals	Some animal burrowing observed near stone wall to east
Sediment/Erosion Controls	Stone downchute and sediment trap to east in place and functioning
Surface Erosion	None observed, however, entire site could not be observed due to dense vegetation
Off-site Sediment Transport	None observed

SOIL VAPOR MITIGATION — Not Applicable

System In Place	
System Operating	
Component Conditions	
Damaged Equipment	

ENVIRONMENTAL MONITORING

GROUNDWATER MONITORING WELLS — Could not locate SWR-MW04 due to thick vegetation

Condition of Monitoring Wells	Located monitoring wells in place and covered. No damage observed
Well Caps In Place	Yes
Locks In Place and Secure	Yes, except for SWR-MW02
	Temporary well installed during geotech invest present, Steel casing with cover, J-Plug, but no lock

Identify Groundwater Samples Taken: None

Identify Photos Taken: Various photos from across the site

OTHER COMMENTS:
Owner notified of observed bags of refuse
Woody growth on top surface should be removed (DEC approved trees on steep slopes)
Woody growth on rock retaining wall should be removed

INSPECTOR SIGNATURE:

Appendix C
NYSDEC EQuIS Approvals

Renee Stanke

From: dec.sm.NYENVDATA <NYENVDATA@dec.ny.gov>
Sent: Thursday, October 1, 2020 10:22 AM
To: Ian McNamara
Cc: Squire, Michael H (DEC)
Subject: RE: EDDs for Austin Avenue Landfill BCP Site (Site #C360066)

CompleteRepository: 011134282
Description: MORRIS WESTCHESTER JUNIOR RETAIL
JobNo: 11342
OperatingCentre: 01
RepoEmail: 011134282@ghd.com
RepoType: Proposal
SubJob: 82

Ian,

Thank you for your EDD submission. NYSDEC has successfully uploaded the data from the EDDs "20200813 1516.C360066.NYSDEC_MERGE" and "20200813 1519.C360066.NYSDEC_MERGE" to Austin Avenue Landfill in the NYSDEC database and the data is available for use within the system.

Aaron
NYSDEC EIMS Team

From: Ian McNamara <Ian.McNamara@ghd.com>
Sent: Thursday, August 13, 2020 3:22 PM
To: dec.sm.NYENVDATA <NYENVDATA@dec.ny.gov>
Cc: Squire, Michael H (DEC) <Michael.Squire@dec.ny.gov>
Subject: EDDs for Austin Avenue Landfill BCP Site (Site #C360066)

Hello,

Attached are 2 EDDs for the above referenced site, a field measurement EDD and a chemistry results EDD, for the Annual 2020 sampling conducted on-site in June.

Please let me know if revisions are needed for successful upload.

Thanks,
Ian

Ian McNamara
Geologist
Environment

GHD
Proudly employee owned
T: +315 802 0312 | M: +315 368 8432 | E: ian.mcnamara@ghd.com
5788 Widewaters Pkwy Syracuse NY 13214 USA | www.ghd.com

Connect

Appendix D
Geotechnical Certification Letter

DYNAMIC
ENGINEERING EARTH SURVEY TRAFFIC

Dynamic Earth, LLC
www.dynamic-earth.com
245 Main Street, Suite 110
Chester, NJ 07930
T. 908-879-7095

September 1, 2020

MORRIS WESTCHESTER RETAIL ASSOCIATES, LLC
MORRIS WESTCHESTER JUNIOR RETAIL ASSOCIATES, LLC
c/o THE MORRIS COMPANIES
350 Veterans Boulevard
Rutherford, New Jersey 07070

Attn: Keith Morris
Vice President

RE: Geotechnical Investigation Compliance Letter
NYS BCP Sites C360116 & 360066
44 and 45 Stew Leonard Drive
City of Yonkers
Westchester County, New York
Project Number: 0650-99-031EC

Dear Mr. Morris;

Dynamic Earth has recently completed their geotechnical investigation at the above referenced property. We understand that portions of the site were part of a former landfill that has been remediated in accordance with Brownfield Cleanup Agreement (BCA) Site Index Number: C360116 and C360066.

Dynamic's overall work performed is summarized below and was conducted in general conformance to the following:

- August 2016 *Site Management Plan* (SMP), prepared by GHD Consulting Services Inc. (GHD);
- March 4, 2020 (last revised) *Geotechnical Investigation Work Plan*, prepared by Dynamic Earth; and
- March 4, 2020 (last revised) *Health and Safety Plan (HASP)*, prepared by Dynamic Earth.

Work Performed:

Our geotechnical investigation included performing 34 soil borings throughout the subject site using truck mounted and all-terrain-vehicle (ATV) mounted drilling equipment. The borings were drilled to depths ranging between approximately 1.8 feet and 100.1 feet below the ground surface. Where encountered, refusal materials were evaluated at select borehole locations using rock coring techniques. In addition to the soil borings, 28 test pits were excavated throughout the subject site using a track-mounted excavator and extended to depths ranging between approximately 1.2 feet to 12 feet below the ground surface. The field investigation was performed in accordance with our *Health and Safety Plan (HASP)* for the subject site.

Borings located within the former landfill were backfilled with soil cuttings below the demarcation layer, to a depth of approximately five to six feet below the ground surface. Cementitious grout mixture was then used to backfill the upper portion of each boring, from below the demarcation layer to the ground surface.

Materials generated from exploratory test pits were temporarily staged and immediately returned to their place of origin following completion of each test pit, on the same day, so no soil stockpiling occurred. Clean soil cover material was staged separately from historic fill material to prevent commingling. Test pits located within the former landfill were backfilled with the historic fill material beneath the depth of the demarcation

fabric encountered (if any), and new fabric was placed at approximately the same depth prior to backfilling with the clean soil cover material.

A ground water monitoring well was installed within test boring location B-18 to a depth of approximately 42 feet below existing site grades. Due to the drilling techniques utilized, an accurate groundwater depth could not be determined during drilling. As such, the well was installed using approximately 42 feet of slotted PVC pipe and approximately three feet of solid riser. The boring annulus was backfilled with clean sand to a depth of approximately six inches below the ground surface; where cementitious grout was then used to backfill the remaining portion of the boring. Both the clean sand and cementitious grout used to construct the well were purchased from a commercial source (i.e. bagged). Dynamic Earth returned approximately 24 hours later to develop the well; however, no groundwater was observed and no samples were taken.

A Photoionization Detector (PID) was used to screen historic fill material excavated from the test pits. The PID readings ranged from 0.0 ppm to 14.7 ppm with no exceedances of the CAMP threshold of five ppm over a 15 minute average. Materials with apparent free petroleum product and/or dense or light non-aqueous phase liquid were not observed during the investigation. Therefore, management and off-site disposal of materials was not required as a part of Dynamic Earth's investigation. In addition, no fill material, other than the sand and grout placed in the single monitoring well, was brought to the site.

Prior to demobilizing from the site, the drilling and excavation equipment was decontaminated via power washing and Alconox. All water generated from this general washing was discharged to an area below the existing demarcation layer of known/historically documented existing fill. Additionally, all equipment was cleaned prior to moving to the next test location by removing excess materials that may have adhered to various equipment components.

Community Air Monitoring Program:

Air monitoring was performed in accordance with the project's Community Air Monitoring Plan (CAMP) with equipment including an auditory and/or visual alarm for real-time notification and resolution of potential issues. A copy of the project's CAMP is included as an appendix to this letter for reference. A PID meter was used to monitor volatile organic compounds (VOC) and three Aeroqual AQS-1 air quality meters were used to monitor air borne particulates down wind and up wind. Particulate monitoring and PID readings were performed continuously when the field investigation penetrated the existing demarcation layer. Results of the CAMP, included as Appendix A to this report, were submitted weekly during the field investigation, and no CAMP threshold exceedances observed.

Daily Field Reports

Dynamic Earth prepared and submitted daily field summaries to the NYSDEC for their review and records. Copies of the daily summaries are included in Appendix B.

Certification:

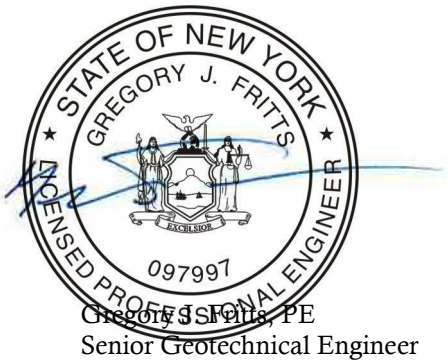
I Gregory J. Fritts certify that I am currently a NYS registered professional engineer, I had primary direct responsibility for the implementation of the subject geotechnical investigation, and I certify that the Investigation Work Plan was implemented and that all geotechnical investigation activities were completed in substantial conformance with the DER-approved Investigation Work Plan

Please do not hesitate to contact us with any questions regarding these matters.

Sincerely,

DYNAMIC EARTH, LLC

David Backman
Principal

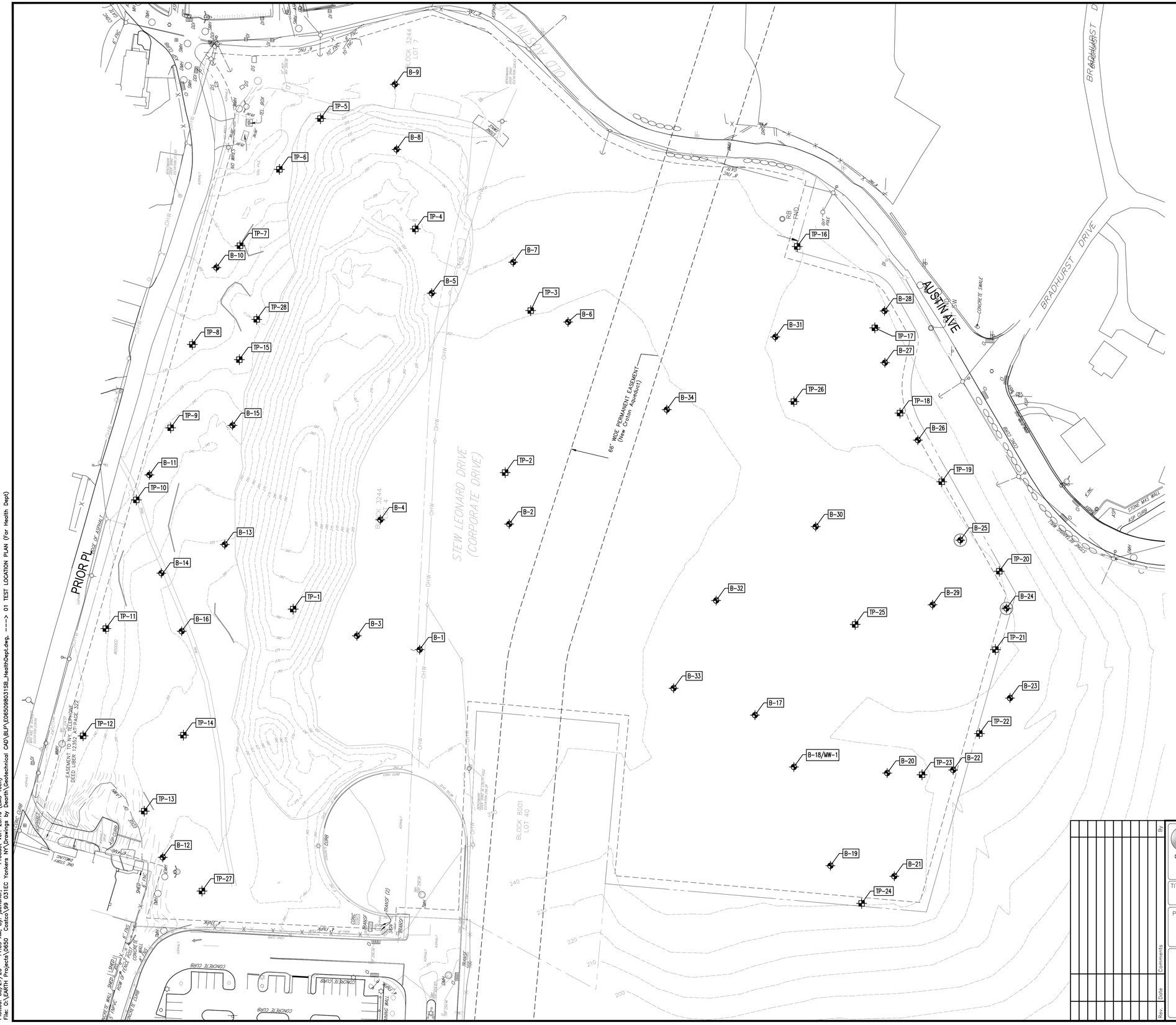


Gregory J. Fritts, PE
Senior Geotechnical Engineer
NY PE License No. 097997

Enclosures – Test Location Plan,
Community Air Monitoring Program Reports
Daily Summary Reports

Cc: Jeffrey Schaumburg, P.E., Dynamic Earth, LLC
Patrick Granitzki, P.E., Dynamic Earth, LLC
Thomas Gallagher, Morris Companies, LLC
Damian Vanetti, P.E., GHD Consulting Services, Inc

TEST LOCATION PLAN



TEST LOCATION SUMMARY

Number	Approx. Surface Elevation (NAVD88)	Final Depth	
		Approx. Depth (feet)	Approx. Elevation (NAVD88)
B-1	251.3	33	218.3
B-2	251.7	47	204.7
B-3	251.1	30.1	221
B-4	251.7	30.1	221.6
B-5	251	43	208
B-6	250.2	33	217.2
B-7	245	41.7	203.3
B-8	242.4	53	189.4
B-9	216	30.7	185.3
B-10	224	18	206
B-11	242.1	1.5	240.6
B-12	260.3	12	248.3
B-13	256	10.1	245.9
B-14	252.3	10	242.3
B-15	243.6	2	241.6
B-16	254.8	1.9	252.9
B-17	243.5	65	178.5
B-18	247	42	205
B-19	245	98	147
B-20	240.5	95.1	145.4
B-21	244.9	100.1	144.8
B-22	234	88	146
B-23	235	61.3	173.7
B-24	240.1	81.4	158.7
B-25	240	65.2	174.8
B-26	238.2	55.1	183.1
B-27	232	45.9	186.1
B-28	232.2	45	187.2
B-29	244.9	10	234.9
B-30	242.7	10	232.7
B-31	238.1	10	228.1
B-32	247.4	10	237.4
B-33	249.8	10	239.8
B-34	250.5	10	240.5
TP-1	251.7	9	242.7
TP-2	251.5	12	239.5
TP-3	248.6	10	238.6
TP-4	247	9	238
TP-5	219.6	5	214.6
TP-6	211	9	202
TP-7	219	8	211
TP-8	227.3	2.2	225.1
TP-9	242	4.5	237.5
TP-10	242.2	9.5	232.7
TP-11	238	7	231
TP-12	240	1.2	238.8
TP-13	254.3	3	251.3
TP-14	256	5	251
TP-15	234.5	1.7	232.8
TP-16	238	7.3	230.7
TP-17	232	9	223
TP-18	236	11	225
TP-19	239	12	227
TP-20	240.5	12	228.5
TP-21	242	9.2	232.8
TP-22	234	11.5	222.5
TP-23	242	12	230
TP-24	246	12	234
TP-25	241.5	12	229.5
TP-26	239.5	12	227.5
TP-27	264.3	3	261.3
TP-28	236.6	4.5	232.1

LEGEND:

B-X — APPROXIMATE BORING LOCATION

TP-1 — APPROXIMATE TEST PIT LOCATION

NOTES:
1. THIS PLAN HAS BEEN PREPARED BASED ON A "YONKERS TOPO AND GRADING CONCEPT" PREPARED ON 02/26/2020 BY MASER CONSULTING.
2. THIS PLAN IS NOT FOR CONSTRUCTION AND WAS PREPARED TO ILLUSTRATE TEST LOCATIONS ONLY.

GRAPHIC SCALE

−50 0 25 50 100 200

(IN FEET)
1 INCH = 50 FT.

DYNAMIC EARTH, LLC
245 Main Street - Suite 110
Chester, NJ 07930
T: 908.879.7095
F: 908.879.0222
www.dynamic-earth.com
GEOTECHNICAL INVESTIGATION • CONSTRUCTION PHASE TESTING/INSPECTION • RETAINING WALL/SEPTIC SYSTEM DESIGN • LEAP SERVICES • PHASE I/II ENVIRONMENTAL SITE ASSESSMENTS • SITE REMEDIATION
Additional offices conveniently located at:
1904 Main Street, Lake Como, NJ 07719 T: 732.280.0830 F: 732.974.3521 | 8 Robbins Street, Suite 102, Toms River, NJ 08753 T: 732.974.0198 F: 732.974.3521
790 Newtown Yardley Road, Suite 425, Newtown, PA 18940 T: 267.685.0276 F: 267.685.0361
1301 Central Expressway South, Suite 210, Allen, TX 75013 T: 972.534.2100 | 14521 Old Katy Road, Suite 250, Houston, TX 77079 T: 281.789.6400

TITLE:

TEST LOCATION PLAN

PROJECT:

GEOTECHNICAL INVESTIGATION
44 AND 45 STEW LEONARD DRIVE
CITY OF YONKERS
WEST CHESTER COUNTY, NEW YORK

JOB No:	0650-99-031EC
DATE:	08/27/2020
DRAWN BY:	JD
SCALE: (H) 1"=50' (V)	
DESIGNED BY:	SH
SHEET No:	1
CHECKED BY:	FV/GF
CHECKED BY:	_
	OF 1
Rev. #	0

811 PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

Rev.	Date	Comments	By

Plotted: 08/27/20 – 11:09 AM, By: jdefisher, – Product Ver: 23.1s (LMS Tech)
File: G:\EARTH Projects\0650 Coatos\99 031EC Yonkers NY\Drawings by Dearth\Geotechnical CAD\BLP\E06509803 1SB_HealthDept.dwg, ----> 01 TEST LOCATION PLAN (For Health Dept)

APPENDIX A: COMMUNITY AIR MONITORING PROGRAM REPORTS

AIR QUALITY MONITORING REPORT

Project:	Proposed Retail Development NYS BCP Site C360116 & 360066 44 and 45 Stew Leonard Drive Yonkers, Westchester County, New York
Project No.:	0650-98-031EC
Monitor Dates:	6/10/20 – 6/12/20
Data Manager:	D. Silbert
Field Engineer:	S. Hume
Present on Site:	Craig Geotechnical Drilling (Mark)

As requested, Dynamic Earth, LLC performed the following air quality monitoring services at the above referenced site.

Air Quality Monitoring: During exploratory geotechnical borings and test pits, Dynamic Earth personnel set up three Aeroqual AQS1 Units to monitor PM10 dust particulates and volatile organic compounds (VOCs) to ensure dust or VOCs were not migrating into communities outside the work zone. Two units were set upwind and downwind each day based on the prevailing winds and one unit was moved throughout the day near the active drilling/digging zone to monitor the focal point of potential air quality disruption. PM10 readings of 150ug/m3 above background and VOC exceedances of 5ppm above background will be noted as exceedances. A breakdown of the daily prevailing winds, background standards and exceedances are listed below:

June 10, 2020:

- Prevailing Wind – East
- PM10 Background Level = 3.64 ug/m3
- VOC Background Level = 0
- Exceedances – None

June 11, 2020:

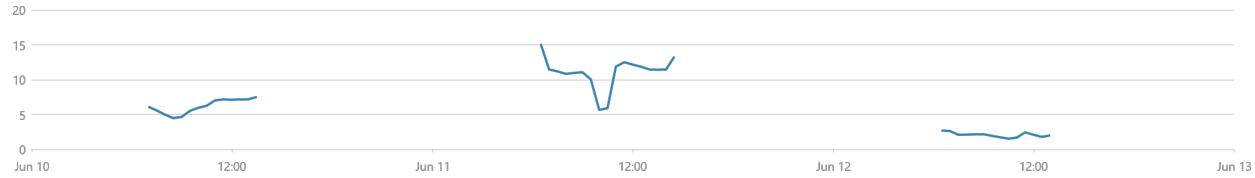
- Prevailing Wind – South
- PM10 Background Level = 9.21 ug/m3
- VOC Background Level = 0
- Exceedances – None

June 12, 2020:

- Prevailing Wind – East
- PM10 Background Level = 1.33 ug/m3
- VOC Background Level = 0
- Exceedances – None

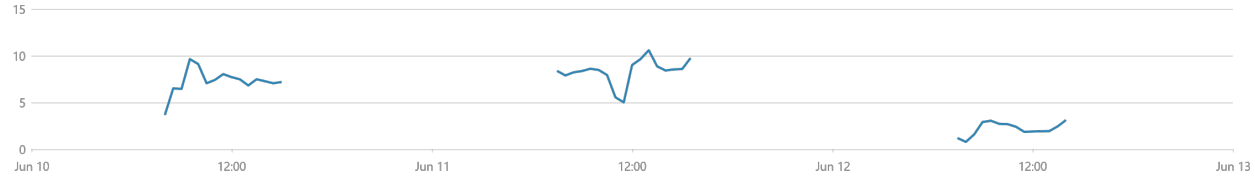
PM10 30 Minute Averages (ug/m3)

Air Monitor Unit AQS1 1150



Air Monitor Unit AQS1 1120

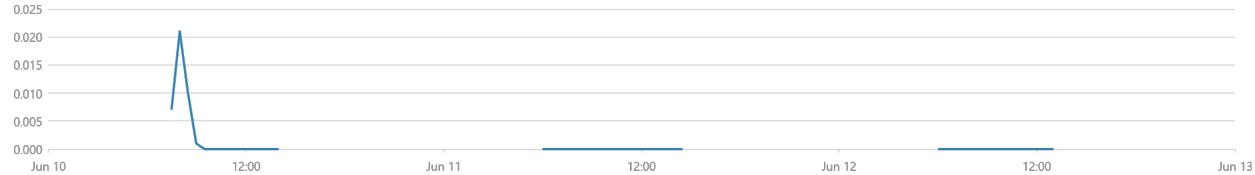
Air Monitor Unit AQS1 824



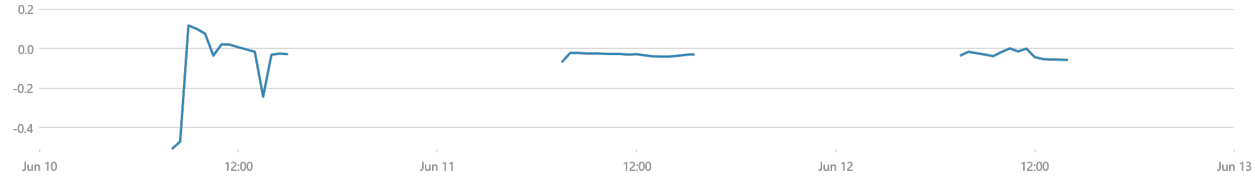
VOC 30 Minute Averages (ppm)

Air Monitor Unit AQS1 1150

Air Monitor Unit AQS1 1120



Air Monitor Unit AQS1 82



Appendix 1
Raw Air Quality Data

Dynamic Earth · AQS1 824 (AQS1 11122018-824)
Data export
6/10/2020 to 6/12/2020
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	WS (m/s)	WD (°)	RAIN (mm/min)	HAIL (/cm²h)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	AN1 (V)
6/10/2020 8:15	-0.51	3.64	1.13	39	0	0	1007.2	22	56.3	
6/10/2020 8:22										
6/10/2020 8:23										
6/10/2020 8:30	-1.23	4.74	1.28	43	0	0	1007.3	21.7	58.1	
6/10/2020 8:39										
6/10/2020 8:40										
6/10/2020 8:45	-0.06	7.42	1.33	39	0.1	0	1007.4	21.7	60.1	13.254
6/10/2020 8:53										
6/10/2020 8:54										
6/10/2020 8:56										
6/10/2020 8:57										
6/10/2020 8:58										
6/10/2020 9:00	0.11	6.13	1.37	41.8	0	0	1007.4	22	59.3	13.208
6/10/2020 9:01										
6/10/2020 9:15	0.12	6.75	1.78	45.2	0	0	1007.3	22.1	58.3	13.228
6/10/2020 9:30	0.1	8.99	1.74	39.8	0	0	1007.3	22.2	58.7	13.221
6/10/2020 9:45	0.09	10.27								13.213
6/10/2020 10:00	0.08	9.18								13.213
6/10/2020 10:15	0.07	9.01								13.239
6/10/2020 10:30	-0.03	6.92	1.35	50.9	0	0	1007.4	23.7	55	13.234
6/10/2020 10:43										
6/10/2020 10:44										
6/10/2020 10:45	-0.04	7.13	2.44	88.6	0.1	0	1007.4	23.3	57.4	13.235
6/10/2020 10:50										
6/10/2020 10:52										
6/10/2020 11:00	0.02	7.6	2.13	86.1	0.1	0	1007.3	23.7	57.9	13.239
6/10/2020 11:15	0.02	7.2	1.71	94.4	0	0	1007.2	24.3	58.1	13.238
6/10/2020 11:30	0.02	8.53	1.47	73.8	0	0	1007.1	25	56.5	13.227
6/10/2020 11:45	0.02	7.52	1.36	95.8	0	0	1007.1	25.9	55.5	13.239
6/10/2020 12:00	0.01	7.47	2.03	85.3	0	0	1006.9	26	55.5	13.239
6/10/2020 12:15	0	7.93	1.99	75	0.1	0	1006.7	26.3	57.1	13.238
6/10/2020 12:30	0	8.18								13.248
6/10/2020 12:45	-0.01	6.74								13.238
6/10/2020 13:00	-0.02	6.74								13.231
6/10/2020 13:15	-0.02	6.87								13.222
6/10/2020 13:17										
6/10/2020 13:40										
6/10/2020 13:45	-0.24	7.47	2.34	159	0	0	1008	25.6	57.3	13.248
6/10/2020 13:53										
6/10/2020 13:54										
6/10/2020 14:00	-0.04	7.27	2.06	174.9	0	0	1007.9	25.2	58.9	13.219
6/10/2020 14:15	-0.03	7.25								13.214
6/10/2020 14:30	-0.03	6.87								13.213
6/10/2020 14:45	-0.03	7.22								13.191
6/10/2020 15:00	-0.03	7.18								13.195
6/10/2020 15:01										
6/10/2020 15:15	-0.03	7.09								13.201
6/10/2020 15:27										
6/11/2020 7:29										
6/11/2020 7:30	-0.12	9.21	0.74	22.5	0	0	1005.2	21.3	83.2	13.212
6/11/2020 7:45	-0.02	7.52	0.7	331.5	0	0	1005.3	21.1	84.4	13.216

6/11/2020 8:00	-0.02	7.99	0.18	121.5	0	0	1005.4	21.2	84.3	13.202
6/11/2020 8:15	-0.02	7.77	0.35	53.9	0	0	1005.5	21.4	83.6	13.213
6/11/2020 8:30	-0.02	8.21	0.15	26.5	0	0	1005.5	21.8	82.6	13.233
6/11/2020 8:45	-0.02	8.22	0.31	353.8	0	0	1005.5	22.1	81	13.226
6/11/2020 9:00	-0.02	8.31	0.48	86.1	0	0	1005.7	22.2	81	13.225
6/11/2020 9:15	-0.03	8.39	0.47	121.5	0	0	1005.8	22.3	80.8	13.233
6/11/2020 9:30	-0.03	8.59	0.2	61.4	0	0	1005.8	22.8	79.3	13.213
6/11/2020 9:45	-0.03	8.61	0.01	148.9	0	0	1005.8	22.9	78.3	13.209
6/11/2020 10:00	-0.03	8.72	0.62	84.1	0	0	1005.9	23.1	78.4	13.221
6/11/2020 10:15	-0.03	8.14								13.206
6/11/2020 10:30	-0.03	8.06	1	182.8	0	0	1006.3	23.6	80.2	13.198
6/11/2020 10:31										
6/11/2020 10:33										
6/11/2020 10:45	-0.03	7.81	1.73	185.7	0	0	1006.4	23.6	80.8	13.215
6/11/2020 11:00	-0.03	7.04								13.211
6/11/2020 11:15	-0.03	4.04								13.2
6/11/2020 11:30	-0.03	3.81								13.178
6/11/2020 11:44										
6/11/2020 11:45	-0.03	6.19								13.19
6/11/2020 12:00	-0.03	8.83								13.187
6/11/2020 12:15	-0.03	9.16								13.172
6/11/2020 12:30	-0.03	9.5								13.175
6/11/2020 12:45	-0.04	9.75								13.185
6/11/2020 13:00	-0.04	10.58								13.215
6/11/2020 13:15	-0.04	10.58								13.163
6/11/2020 13:30	-0.04	9.33								13.117
6/11/2020 13:45	-0.04	8.38								13.126
6/11/2020 14:00	-0.04	8.17								13.098
6/11/2020 14:15	-0.04	8.65								13.076
6/11/2020 14:30	-0.04	8.38								13.081
6/11/2020 14:45	-0.04	8.68								13.072
6/11/2020 15:00	-0.03	8.43								13.064
6/11/2020 15:15	-0.03	8.7								13.054
6/11/2020 15:30	-0.03	9.74								13.056
6/11/2020 15:47										
6/12/2020 7:30	-0.06	1.84	0.91	323.1	0	0	1010.4	20.6	73	13.372
6/12/2020 7:33										
6/12/2020 7:34										
6/12/2020 7:45	-0.02	0.7	1.13	338.8	0	0	1010.5	21.2	70.5	13.212
6/12/2020 8:00	-0.02	0.67	1.14	335	0	0	1010.5	21.6	69.2	13.21
6/12/2020 8:15	-0.02	0.86	0.64	336.5	0	0	1010.5	22.4	66.1	13.219
6/12/2020 8:30	-0.02	1.3	0.96	346	0	0	1010.4	23.1	62.1	13.222
6/12/2020 8:45	-0.03	1.84	0.85	345.4	0	0	1010.3	23.5	60.1	13.227
6/12/2020 9:00	-0.03	2.9	1.06	342.2	0	0	1010.3	23.9	54.6	13.238
6/12/2020 9:15	-0.03	2.88	1.35	356.3	0	0	1010.2	24.3	52.8	13.23
6/12/2020 9:30	-0.04	2.55	0.85	349.6	0	0	1010.2	24.8	51.3	13.233
6/12/2020 9:45	-0.04	3.52	1.32	348.4	0	0	1010.2	25.3	49.5	13.247
6/12/2020 10:00	-0.03	2.83	1.26	346.4	0	0	1010.2	25.3	46.4	13.224
6/12/2020 10:15	0	2.56	0.97	340.4	0	0	1010.2	25.9	42.6	13.249
6/12/2020 10:30	0	2.91	1.77	336.5	0	0	1010.2	25.9	38.6	13.25
6/12/2020 10:45	0	2.43	2.04	343.3	0	0	1010.1	25.9	36.8	13.221
6/12/2020 11:00	-0.02	2.56	2	332.5	0	0	1010.1	26.2	33.3	13.228
6/12/2020 11:15	-0.01	2.22	1.81	336.1	0	0	1010.1	26.4	30.2	13.234
6/12/2020 11:30	0	1.9	1.51	329.4	0	0	1009.9	26.5	32.7	13.257
6/12/2020 11:45	0	1.79	1.82	334.3	0	0	1009.8	26.4	31.7	13.236
6/12/2020 12:00	-0.04	1.88								13.228
6/12/2020 12:15	-0.05	1.88								13.224
6/12/2020 12:30	-0.05	1.85								13.23

6/12/2020 12:45	-0.05	1.97	13.259
6/12/2020 12:57			
6/12/2020 13:00	-0.06	1.92	13.267
6/12/2020 13:15	-0.06	1.93	13.195
6/12/2020 13:30	-0.06	2.39	13.161
6/12/2020 13:45	-0.06	2.46	13.157
6/12/2020 14:00	-0.06	3.1	13.168
6/12/2020 14:26			

Dynamic Earth · AQS1 1120 (AQS1 05122019-1120)
Data export
6/10/2020 to 6/12/2020
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	Battery Voltage (V)
6/10/2020 7:15	0	6.1	
6/10/2020 7:25			
6/10/2020 7:26			
6/10/2020 7:30	0	5.96	
6/10/2020 7:35			
6/10/2020 7:41			
6/10/2020 7:42			
6/10/2020 7:45	0	5.36	
6/10/2020 7:59			
6/10/2020 8:00	0	5.18	13.001
6/10/2020 8:06			
6/10/2020 8:15	0	4.74	12.98
6/10/2020 8:30	0	4.44	12.965
6/10/2020 8:45	0	4.49	13.005
6/10/2020 9:00	0	4.51	13.007
6/10/2020 9:15	0	4.78	13.01
6/10/2020 9:30	0	5.47	13.007
6/10/2020 9:45	0	5.56	13.005
6/10/2020 10:00	0	5.92	13.008
6/10/2020 10:15	0	5.97	13.01
6/10/2020 10:30	0	5.98	13.008
6/10/2020 10:45	0	6.51	13.005
6/10/2020 11:00	0	6.98	13.009
6/10/2020 11:15	0	7.05	12.984
6/10/2020 11:30	0	7.32	12.973
6/10/2020 11:45	0	6.96	12.978
6/10/2020 12:00	0	6.95	12.986
6/10/2020 12:15	0	7.23	12.982
6/10/2020 12:30	0	7.16	12.976
6/10/2020 12:45	0	7.13	12.967
6/10/2020 13:00	0	7.18	12.973
6/10/2020 13:15	0	7.15	12.953
6/10/2020 13:30	0	7.27	12.95
6/10/2020 13:45	0	7.77	12.933
6/10/2020 14:09			
6/11/2020 6:45	0	15.11	13.276
6/11/2020 6:46			
6/11/2020 7:00	0	11.78	13.05
6/11/2020 7:15	0	11.12	13.04

6/11/2020 7:30	0	11.3	13.038
6/11/2020 7:45	0	11.04	13.039
6/11/2020 8:00	0	10.97	13.037
6/11/2020 8:15	0	10.64	13.04
6/11/2020 8:30	0	10.83	13.039
6/11/2020 8:45	0	11.08	13.04
6/11/2020 9:00	0	11.07	13.039
6/11/2020 9:15	0	11.01	13.042
6/11/2020 9:24			
6/11/2020 9:25			
6/11/2020 9:30	0	10.05	13.039
6/11/2020 9:45	0	9.97	13.033
6/11/2020 10:00	0	7.41	13.03
6/11/2020 10:15	0	3.87	13.024
6/11/2020 10:30	0	3.99	13.017
6/11/2020 10:45	0	7.81	13.012
6/11/2020 11:00	0	11.33	13.013
6/11/2020 11:15	0	12.39	13.012
6/11/2020 11:30	0	12.39	13.012
6/11/2020 11:45	0	12.57	13.013
6/11/2020 12:00	0	12.3	13.01
6/11/2020 12:15	0	12	13.007
6/11/2020 12:30	0	12.15	12.998
6/11/2020 12:45	0	11.54	12.978
6/11/2020 13:00	0	11.31	12.965
6/11/2020 13:15	0	11.59	12.939
6/11/2020 13:30	0	11.47	12.927
6/11/2020 13:45	0	11.32	12.909
6/11/2020 14:00	0	11.29	12.903
6/11/2020 14:15	0	11.58	12.901
6/11/2020 14:30	0	13.29	12.9
6/11/2020 14:55			
6/12/2020 6:45	0	2.68	13.303
6/12/2020 6:46			
6/12/2020 7:00	0	2.59	13.056
6/12/2020 7:15	0	2.63	13.042
6/12/2020 7:30	0	2.02	13.04
6/12/2020 7:45	0	2.14	13.042
6/12/2020 8:00	0	2.1	13.041
6/12/2020 8:15	0	2.08	13.042
6/12/2020 8:30	0	2.22	13.041
6/12/2020 8:45	0	2.03	13.038
6/12/2020 9:00	0	2.15	13.036
6/12/2020 9:09			
6/12/2020 9:15	0	2.16	13.038
6/12/2020 9:30	0	1.9	13.036

6/12/2020 9:45	0	1.95	13.034
6/12/2020 10:00	0	1.83	13.03
6/12/2020 10:15	0	1.62	13.027
6/12/2020 10:30	0	1.44	13.021
6/12/2020 10:45	0	1.59	13.018
6/12/2020 11:00	0	1.5	13.017
6/12/2020 11:15	0	1.82	13.022
6/12/2020 11:30	0	2.19	13.023
6/12/2020 11:45	0	2.65	13.024
6/12/2020 12:00	0	2.36	13.067
6/12/2020 12:15	0	1.8	13.084
6/12/2020 12:30	0	1.63	13.082
6/12/2020 12:45	0	1.92	13.08
6/12/2020 13:00	0	1.98	13.078
6/12/2020 13:22			

Dynamic Earth · AQS 1150 (AQS1 18122019-1150)
Data export
6/10/2020 to 6/12/2020
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	Battery Voltage (V)	PM2.5 (µg/m³)
6/10/2020 7:30	0			4.1
6/10/2020 7:31				
6/10/2020 7:45	0.01			3.99
6/10/2020 8:00	0.02	3.98	13.15	4.05
6/10/2020 8:01				
6/10/2020 8:02				
6/10/2020 8:03				
6/10/2020 8:04				
6/10/2020 8:05				
6/10/2020 8:06				
6/10/2020 8:15	0.02	4.06	13.15	
6/10/2020 8:30	0.01	4.13	13.151	
6/10/2020 8:45	0.01	4.01	13.153	
6/10/2020 9:00	0	4.12	13.149	
6/10/2020 9:15	0	4.19	13.149	
6/10/2020 9:30	0	4.15	13.15	
6/10/2020 9:45	0	4.31	13.151	
6/10/2020 10:00	0	4.47	13.147	
6/10/2020 10:15	0	4.93	13.15	
6/10/2020 10:30	0	5.03	13.15	
6/10/2020 10:45	0	5.43	13.15	
6/10/2020 11:00	0	5.59	13.149	
6/10/2020 11:15	0	5.75	13.147	
6/10/2020 11:30	0	5.84	13.143	
6/10/2020 11:45	0	5.63	13.143	
6/10/2020 12:00	0	5.65	13.129	
6/10/2020 12:15	0	5.92	13.116	
6/10/2020 12:30	0	5.79	13.101	
6/10/2020 12:45	0	5.85	13.075	
6/10/2020 13:00	0	5.89	13.059	
6/10/2020 13:15	0	5.84	13.047	
6/10/2020 13:30	0	5.72	13.042	
6/10/2020 13:45	0	6.22	13.036	
6/10/2020 14:00	0	6.11	13.03	
6/10/2020 14:17				
6/11/2020 6:00	0	11.93	13.479	
6/11/2020 6:11				
6/11/2020 6:12				
6/11/2020 6:14				

6/11/2020 6:15	0	9.45	13.361
6/11/2020 6:22			
6/11/2020 6:30	0	8.98	13.16
6/11/2020 6:45	0	8.92	13.113
6/11/2020 7:00	0	8.91	13.113
6/11/2020 7:15	0	9.01	13.113
6/11/2020 7:30	0	9.06	13.115
6/11/2020 7:45	0	9.15	13.117
6/11/2020 8:00	0	9.04	13.117
6/11/2020 8:15	0	9.15	13.116
6/11/2020 8:30	0	9.08	13.115
6/11/2020 8:45	0	9.41	13.114
6/11/2020 9:00	0	9.37	13.115
6/11/2020 9:15	0	8.78	13.116
6/11/2020 9:30	0	8.16	13.115
6/11/2020 9:45	0	7.94	13.113
6/11/2020 10:00	0	6.68	13.113
6/11/2020 10:15	0	2.91	13.112
6/11/2020 10:30	0	2.88	13.107
6/11/2020 10:45	0	6.62	13.096
6/11/2020 11:00	0	9.41	13.092
6/11/2020 11:15	0	10.08	13.09
6/11/2020 11:30	0	11.65	13.159
6/11/2020 11:45	0	12.18	13.167
6/11/2020 12:00	0	11.92	13.169
6/11/2020 12:15	0	12.05	13.163
6/11/2020 12:30	0	11.41	13.152
6/11/2020 12:45	0	11.22	13.147
6/11/2020 13:00	0	11.46	13.097
6/11/2020 13:15	0	10.2	12.939
6/11/2020 13:30	0	9.3	12.926
6/11/2020 13:45	0	9.57	12.914
6/11/2020 14:00	0	9.42	12.933
6/11/2020 14:15	0	9.94	12.924
6/11/2020 14:30	0	10.56	12.906
6/11/2020 14:44			
6/12/2020 6:15	0	1.33	13.424
6/12/2020 6:19			
6/12/2020 6:28			
6/12/2020 6:30	0	1.06	13.157
6/12/2020 6:45	0	0.98	13.125
6/12/2020 7:00	0	0.86	13.129
6/12/2020 7:15	0	0.97	13.139
6/12/2020 7:30	0	0.83	13.146
6/12/2020 7:45	0	0.69	13.146
6/12/2020 8:00	0	0.63	13.146

6/12/2020 8:15	0	0.68	13.15
6/12/2020 8:30	0	0.76	13.149
6/12/2020 8:45	0	0.72	13.151
6/12/2020 9:00	0	0.56	13.152
6/12/2020 9:09			
6/12/2020 9:15	0	0.54	13.152
6/12/2020 9:30	0	0.52	13.193
6/12/2020 9:45	0	0.53	13.211
6/12/2020 10:00	0	0.54	13.215
6/12/2020 10:15	0	0.34	13.157
6/12/2020 10:30	0	0.31	13.151
6/12/2020 10:45	0	0.28	13.151
6/12/2020 11:00	0	0.29	13.179
6/12/2020 11:15	0	0.4	13.181
6/12/2020 11:26			
6/12/2020 11:30	0	0.32	13.146
6/12/2020 11:45	0	0.37	13.14
6/12/2020 12:00	0	0.38	13.146
6/12/2020 12:15	0	0.48	13.185
6/12/2020 12:30	0	0.52	13.185
6/12/2020 12:45	0	0.48	13.183
6/12/2020 13:00	0	0.52	13.174
6/12/2020 13:15	0	0.61	13.157
6/12/2020 13:32			

AIR QUALITY MONITORING REPORT

Project:	Proposed Retail Development NYS BCP Site C360116 & 360066 44 and 45 Stew Leonard Drive Yonkers, Westchester County, New York
Project No.:	0650-98-031EC
Monitor Dates:	6/15/20 – 6/19/20
Data Manager:	D. Silbert
Field Engineer:	S. Hume & T. George
Present on Site:	Craig Geotechnical Drilling (Mark)

As requested, Dynamic Earth, LLC performed the following air quality monitoring services at the above referenced site.

Air Quality Monitoring: During exploratory geotechnical borings and test pits, Dynamic Earth personnel set up three Aeroqual AQS1 Units to monitor PM10 dust particulates and volatile organic compounds (VOCs) to ensure dust or VOCs were not migrating into communities outside the work zone. Two units were set upwind and downwind each day based on the prevailing winds and one unit was moved throughout the day near the active drilling/digging zone to monitor the focal point of potential air quality disruption. On Tuesday June 16, 2020, unit AQS1 1150 was not operating due to a damaged battery cable. The downwind monitor and monitor within the direct work zone were running throughout all work activities. Repairs were coordinated in time for use the following work day and the remainder of the week. PM10 readings of 150ug/m3 above background and VOC exceedances of 5ppm above background will be noted as exceedances. A breakdown of the daily prevailing winds, background standards and exceedances are listed below:

June 15, 2020:

- Prevailing Wind – South to North
- PM10 Background Level = 6.34 ug/m3
- VOC Background Level = 0
- Exceedances – None

June 16, 2020:

- Prevailing Wind – North to South
- PM10 Background Level = 9.58 ug/m3
- VOC Background Level = 0
- Exceedances – None
- Unit AQS1 1150 non-operational due to damaged battery connection, no upwind monitor run this day but unit was promptly repaired to continue upwind monitoring throughout the week

June 17, 2020:

- Prevailing Wind – East to West
- PM10 Background Level = 3.79 ug/m3
- VOC Background Level = 0
- Exceedances – None

June 18, 2020:

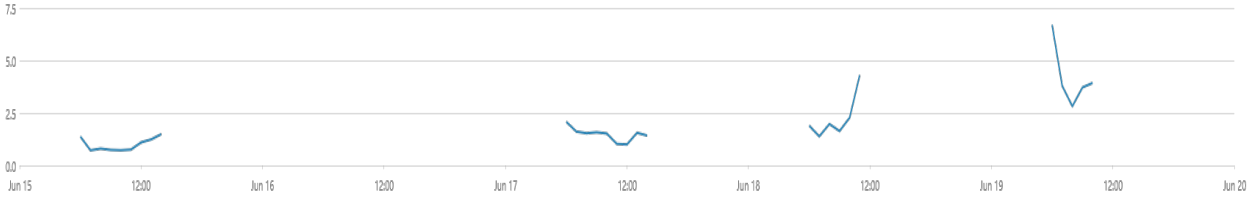
- Prevailing Wind – East to West
- PM10 Background Level = 3.87 ug/m3
- VOC Background Level = 0
- Exceedances – None

June 19, 2020:

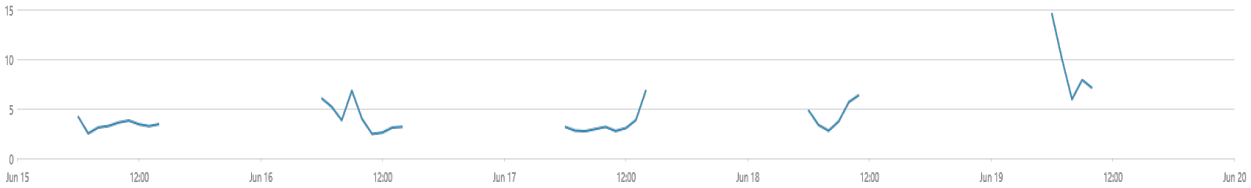
- Prevailing Wind – West to East
- PM10 Background Level = 21.4 ug/m3
- VOC Background Level = 0
- Exceedances – None

PM10 30 Minute Averages (ug/m3)

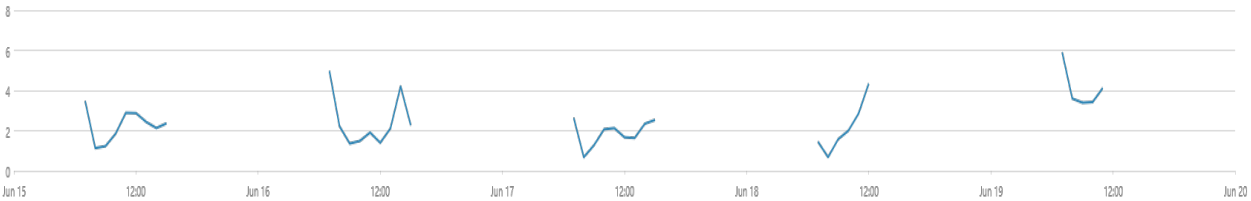
Air Monitor Unit AQS1 1150



Air Monitor Unit AQS1 1120



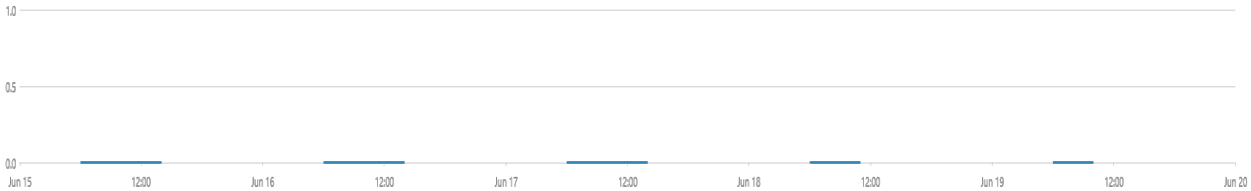
Air Monitor Unit AQS1 824



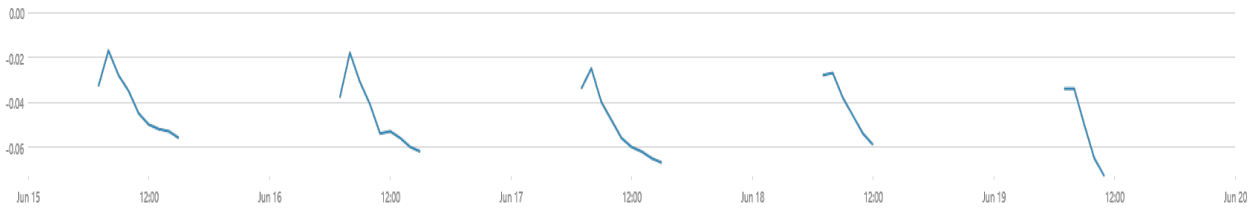
VOC 30 Minute Averages (ppm)

Air Monitor Unit AQS1 1150

Air Monitor Unit AQS1 1120



Air Monitor Unit AQS1 824



Appendix 1
Raw Air Quality Data

Dynamic Earth · AQS1 824 (AQS1 11122018-824)
Data export
6/15/2020 to 6/19/2020
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	WS (m/s)	WD (°)	RAIN (mm/min)	HAIL (/cm²h)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	AN1 (V)
6/15/2020 7:30	-0.07	4.18	0.12	280.1	0	0	1021.3	15.3	74.6	13.493
6/15/2020 7:45	-0.01	3.06	0.49	213.1	0	0	1021.4	15.6	69.5	13.235
6/15/2020 8:00	-0.01	1.71	0.48	180.6	0	0	1021.5	16.3	64.7	13.2
6/15/2020 8:15	-0.02	0.87	1.11	138	0	0	1021.6	16.8	61.3	13.201
6/15/2020 8:30	-0.02	1.05	1.26	149.6	0	0	1021.9	17.3	56.3	13.178
6/15/2020 8:45	-0.02	0.9	1.58	114.1	0	0	1022.2	17.9	54.7	13.194
6/15/2020 9:00	-0.02	1.01	1.03	107.9	0	0	1022.4	18	54.3	13.194
6/15/2020 9:15	-0.03	1.2	1.51	115.4	0	0	1022	18.2	53.3	13.186
6/15/2020 9:30	-0.03	1.52	0.65	109.2	0	0	1021.7	18.5	53.8	13.207
6/15/2020 9:45	-0.03	1.18	0.32	234.3	0	0	1021.7	18.9	51.6	13.194
6/15/2020 10:00	-0.03	1.44	0.85	135.2	0	0	1021.8	19.3	49.1	13.195
6/15/2020 10:15	-0.03	1.73	1.07	130.7	0	0	1021.9	19.9	47.1	13.199
6/15/2020 10:30	-0.04	1.97	0.93	252.7	0	0	1021.6	20.3	46.1	13.203
6/15/2020 10:45	-0.04	2.26	0.57	176.8	0	0	1021.5	20.7	45.9	13.208
6/15/2020 11:00	-0.04	2.52	0.57	251.6	0	0	1021.5	20.7	47.9	13.218
6/15/2020 11:15	-0.04	4.03	1.06	287.9	0	0	1021.6	20.8	48	13.224
6/15/2020 11:30	-0.05	2.3	0.5	288.9	0	0	1021.5	21	47.1	13.237
6/15/2020 11:45	-0.05	2.69	0.95	310.4	0	0	1021.3	21.3	47.5	13.223
6/15/2020 12:00	-0.05	3.01	1.2	267	0	0	1021.3	21.4	47.1	13.221
6/15/2020 12:15	-0.05	2.79								13.221
6/15/2020 12:30	-0.05	2.78								13.213
6/15/2020 12:45	-0.05	2.9								13.212
6/15/2020 13:00	-0.05	2.64								13.214
6/15/2020 13:15	-0.05	2.94								13.191
6/15/2020 13:30	-0.05	2.16								13.183
6/15/2020 13:45	-0.05	1.92								13.171
6/15/2020 14:00	-0.05	1.91								13.165
6/15/2020 14:15	-0.05	2.14								13.118
6/15/2020 14:30	-0.05	2.23								13.104
6/15/2020 14:45	-0.05	2.25								13.097
6/15/2020 15:00	-0.06	2.36								13.085
6/15/2020 15:15	-0.06	2.38								13.073
6/15/2020 15:30	-0.06	2.32								13.1
6/16/2020 7:30	-0.15	6.74	0.8	288.2	0	0	1020.5	16.2	77.8	13.68
6/16/2020 7:45	-0.02	4.64	0.47	304.2	0	0	1020.6	16.2	77.5	13.321
6/16/2020 8:00	-0.01	3.17	0.52	294.6	0	0	1020.7	16.7	75.1	13.213
6/16/2020 8:15	-0.02	2.1	0.93	281.8	0	0	1020.8	17.3	72.8	13.202
6/16/2020 8:30	-0.02	1.8	1.1	279.1	0	0	1020.8	17.7	70.2	13.201
6/16/2020 8:45	-0.02	1.8	0.48	286.3	0	0	1020.8	18	68.2	13.201
6/16/2020 9:00	-0.03	1.57	0.54	272.6	0	0	1020.8	18.7	65.1	13.196
6/16/2020 9:15	-0.03	1.65	0.48	240.2	0	0	1020.8	19.2	61.6	13.217
6/16/2020 9:30	-0.03	1.1	0.71	147	0	0	1020.8	19.9	55.2	13.199
6/16/2020 9:45	-0.04	1.13	0.5	142.1	0	0	1020.8	20.5	51.8	13.2
6/16/2020 10:00	-0.04	1.51	0.38	241.1	0	0	1020.8	20.8	51.6	13.208
6/16/2020 10:15	-0.04	1.31	0.66	139.9	0	0	1020.7	21.6	47.2	13.197
6/16/2020 10:30	-0.04	1.62	1.38	132.1	0	0	1020.6	22.2	45.1	13.197
6/16/2020 10:45	-0.05	1.51	1.33	130.3	0	0	1020.6	22.5	41.2	13.2
6/16/2020 11:00	-0.05	1.77	1.38	97.6	0	0	1020.6	22.7	40.5	13.206
6/16/2020 11:15	-0.05	2.24	2.05	105.2	0	0	1020.7	22.6	41.6	13.206
6/16/2020 11:45	-0.11	0.94	2.31	93.6	0	0	1020.5	24.3	34.5	13.262
6/16/2020 12:00	-0.06	1.1	3.45	109.4	0	0	1020.4	22.8	37.1	13.221
6/16/2020 12:15	-0.05	1.48	2.86	78.3	0	0	1020.4	22.7	37.2	13.213
6/16/2020 12:30	-0.05	1.31	3.37	48.7	0	0	1020.4	22.5	37.9	13.239

6/16/2020 12:45	-0.05	1.7								13.22
6/16/2020 13:00	-0.05	1.8								13.225
6/16/2020 13:15	-0.06	2.06	2.64	104.1	0	0	1019.9	23.2	37.1	13.233
6/16/2020 13:30	-0.06	2.05	2.74	96.3	0	0	1019.8	23.3	36.8	13.199
6/16/2020 13:45	-0.06	2.53	2.82	97	0	0	1019.7	23.1	37.5	13.229
6/16/2020 14:00	-0.06	4.21	2.77	85.7	0	0	1019.7	23.6	38.5	13.208
6/16/2020 14:15	-0.06	7.62	2.42	92.1	0	0	1019.6	23.7	38.9	13.209
6/16/2020 14:30	-0.06	2.55	2.7	86.9	0	0	1019.4	23.4	39.2	13.179
6/16/2020 14:45	-0.06	2.45	2.46	83.1	0	0	1019.4	23.4	40.3	13.192
6/16/2020 15:00	-0.06	2.26	2.45	80.6	0	0	1019.4	23.4	40.2	13.174
6/17/2020 7:30	-0.08	3.58	1.35	44.1	0	0	1017.2	17.5	72.7	13.614
6/17/2020 7:45	-0.02	2.29	1.22	54.3	0	0	1017.2	18.1	70.6	13.276
6/17/2020 8:00	-0.02	0.87	1.6	37.1	0	0	1017.4	18.6	66	13.206
6/17/2020 8:15	-0.02	0.71	1.72	60.9	0	0	1017.5	19	62.6	13.203
6/17/2020 8:30	-0.03	0.48	1.7	53	0	0	1017.6	19.4	60.4	13.208
6/17/2020 8:45	-0.03	0.66	1.56	61.2	0	0	1017.6	19.8	57.6	13.202
6/17/2020 9:00	-0.04	0.96	1.81	61.1	0	0	1017.6	20.3	55.6	13.209
6/17/2020 9:15	-0.04	1.1	1.59	81.7	0	0	1017.5	20.6	53.8	13.226
6/17/2020 9:30	-0.04	1.44	1.94	88	0	0	1017.5	20.9	51.9	13.218
6/17/2020 9:45	-0.04	1.61	1.96	64.7	0	0	1017.4	21.2	50.2	13.228
6/17/2020 10:00	-0.04	1.63	1.68	63	0	0	1017.3	21.8	49.6	13.232
6/17/2020 10:15	-0.05	2.07	2.01	103	0	0	1017.3	22.2	48.8	13.224
6/17/2020 10:30	-0.05	2.19	1.17	77.1	0	0	1017.2	22.8	47.7	13.243
6/17/2020 10:45	-0.05	2.39	2.22	113.2	0	0	1017.2	22.6	48.6	13.226
6/17/2020 11:00	-0.05	2.39	2.33	121	0	0	1017.1	23	48	13.222
6/17/2020 11:15	-0.06	2.13	2.15	106	0	0	1017	23.2	47.2	13.249
6/17/2020 11:30	-0.06	2.04	2.15	89.7	0	0	1016.9	23.1	47.7	13.239
6/17/2020 11:45	-0.06	1.94	2.77	122	0	0	1016.8	23.5	46.4	13.241
6/17/2020 12:00	-0.06	1.86	2.38	98.2	0	0	1016.7	23.9	46	13.239
6/17/2020 12:15	-0.06	1.69	2.29	72.9	0	0	1016.4	23.8	47.3	13.229
6/17/2020 12:30	-0.06	1.64	2.83	93.1	0	0	1016.3	23.6	49.4	13.243
6/17/2020 12:45	-0.06	1.48	2.5	95.5	0	0	1016.1	24	50.3	13.217
6/17/2020 13:00	-0.06	1.52	2.27	94.7	0	0	1015.9	24.2	49.2	13.217
6/17/2020 13:15	-0.06	1.44	2.54	83.6	0	0	1015.7	24.3	49.2	13.21
6/17/2020 13:30	-0.06	1.67	2.76	92.5	0	0	1015.5	23.4	53.2	13.211
6/17/2020 13:45	-0.06	1.93	2.51	98.9	0	0	1015.4	24.3	51.7	13.177
6/17/2020 14:00	-0.06	2.04	2.35	81.9	0	0	1015.4	24.3	50.9	13.186
6/17/2020 14:15	-0.06	2.21	2.65	96.3	0	0	1015.3	24.6	49.7	13.167
6/17/2020 14:30	-0.07	2.5	3.19	118	0	0	1015.2	24.3	50.1	13.138
6/17/2020 14:45	-0.07	2.63	2.36	93.5	0	0	1015.1	24.5	50.3	13.125
6/17/2020 15:00	-0.07	2.5	2.16	85.7	0	0	1015	24.3	52.5	13.116
6/17/2020 15:15	-0.07	2.59	3.1	63.5	0	0	1015	24.5	51	13.094
6/18/2020 7:15	-0.09	3.87	0.81	19.3	0	0	1014.7	18.2	88.1	13.518
6/18/2020 7:30	-0.02	1.7	0.8	27.1	0	0	1014.7	17.8	90.1	13.228
6/18/2020 7:45	-0.02	0.57	0.93	50.2	0	0	1014.7	17.7	91.4	13.224
6/18/2020 8:00	-0.02	0.56	1.51	120.1	0	0	1014.7	17.7	91.7	13.216
6/18/2020 8:15	-0.03	0.54	0.99	89.4	0	0	1014.6	18	90.3	13.221
6/18/2020 8:30	-0.03	0.67	1.11	74.7	0	0	1014.5	18.3	88.8	13.216
6/18/2020 8:45	-0.03	0.97	1.06	47.5	0	0	1014.5	18.7	87	13.229
6/18/2020 9:00	-0.03	1.17	1.82	91.7	0	0	1014.3	19	86	13.235
6/18/2020 9:15	-0.04	1.37	1.24	45.1	0	0	1014.4	19.5	84.7	13.225
6/18/2020 9:30	-0.04	1.66	1.29	49.8	0	0	1014.4	19.7	83.9	13.228
6/18/2020 9:45	-0.04	2.11	1.31	51.2	0	0	1014.2	20.2	82.4	13.215
6/18/2020 10:00	-0.04	1.82	1.88	115.6	0	0	1014.3	20.6	81.3	13.218
6/18/2020 10:15	-0.05	2.11	1.47	94.8	0	0	1014.7	20.6	80.9	13.224
6/18/2020 10:30	-0.05	2.07	1.13	90.7	0	0	1014.6	21.1	79.7	13.242
6/18/2020 10:45	-0.05	1.99	1.3	79.5	0	0	1014.5	21.5	79	13.223
6/18/2020 11:00	-0.05	2.1								13.226
6/18/2020 11:15	-0.05	2.35								13.227
6/18/2020 11:30	-0.06	2.81								13.214

6/18/2020 11:45	-0.06	4.17								13.218
6/18/2020 12:00	-0.06	4.35								13.236
6/19/2020 7:15	-0.23	12.45	0.8	167	0	0	1012.8	20.8	79.1	13.781
6/19/2020 7:30	-0.03	6.9	0.79	287.6	0	0	1012.9	21.1	77.5	13.411
6/19/2020 7:45	-0.02	4.49	0.65	288.9	0	0	1013	21.6	74.7	13.216
6/19/2020 8:00	-0.03	3.65	0.85	279.2	0	0	1013.1	22	73.1	13.2
6/19/2020 8:15	-0.03	3.68	0.97	304.8	0	0	1013	21.8	73.1	13.216
6/19/2020 8:30	-0.04	3.72	0.45	158.9	0	0	1013.1	22	73.3	13.23
6/19/2020 8:45	-0.04	3.34	0.88	314.2	0	0	1013.1	22.6	71	13.234
6/19/2020 9:00	-0.05	3.18	0.54	184.1	0	0	1013.2	22.9	69.5	13.227
6/19/2020 9:15	-0.05	3.44	0.67	265.9	0	0	1013.1	23.5	67.9	13.229
6/19/2020 9:30	-0.05	3.69	0.18	244.3	0	0	1012.9	24	65	13.221
6/19/2020 9:45	-0.06	3.26	0.29	309.9	0	0	1012.9	24.6	62.8	13.222
6/19/2020 10:00	-0.06	2.98	0.19	226.9	0	0	1012.7	25	61.1	13.237
6/19/2020 10:15	-0.06	3.55	0.68	197.7	0	0	1012.6	24.8	61	13.237
6/19/2020 10:30	-0.07	3.5	1.03	304.3	0	0	1012.5	25.5	59.6	13.229
6/19/2020 10:45	-0.07	3.67	0.62	170.4	0	0	1012.4	25.4	59.5	13.227
6/19/2020 11:00	-0.07	4.26	0.66	148.7	0	0	1012.3	26	56.6	13.238
6/19/2020 11:15	-0.07	4.17	0.7	151.6	0	0	1012.1	25.4	59	13.248
6/19/2020 11:30	-0.07	4.1	0.99	125.8	0	0	1011.9	25.9	56.7	13.237
6/19/2020 11:45	-0.07	3.85	0.51	255.3	0	0	1011.9	25.8	57.1	13.226

Dynamic Earth · AQS1 1120 (AQS1 05122019-1120)
Data export
6/15/2020 to 6/19/2020
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	Battery Voltage (V)
6/15/2020 6:30	0	6.34	13.422
6/15/2020 6:45	0	3.23	13.109
6/15/2020 7:00	0	2.1	13.044
6/15/2020 7:15	0	2.71	13.043
6/15/2020 7:30	0	2.61	13.042
6/15/2020 7:45	0	2.6	13.043
6/15/2020 8:00	0	2.88	13.044
6/15/2020 8:15	0	3.18	13.043
6/15/2020 8:30	0	3.25	13.042
6/15/2020 8:45	0	3.11	13.045
6/15/2020 9:00	0	3.36	13.045
6/15/2020 9:15	0	3.33	13.046
6/15/2020 9:30	0	3.21	13.046
6/15/2020 9:45	0	3.13	13.045
6/15/2020 10:00	0	3.82	13.045
6/15/2020 10:15	0	3.78	13.044
6/15/2020 10:30	0	3.29	13.045
6/15/2020 10:45	0	3.51	13.043
6/15/2020 11:00	0	3.45	13.043
6/15/2020 11:15	0	3.45	13.056
6/15/2020 11:30	0	4.74	13.074
6/15/2020 11:45	0	3.53	13.039
6/15/2020 12:00	0	3.95	13.03
6/15/2020 12:15	0	3.36	13.012
6/15/2020 12:30	0	3.23	13
6/15/2020 12:45	0	3.18	12.978
6/15/2020 13:00	0	3.31	12.96
6/15/2020 13:15	0	3.25	12.939
6/15/2020 13:30	0	3.12	12.932
6/15/2020 13:45	0	3.29	12.923
6/15/2020 14:00	0	3.45	12.909
6/15/2020 14:15	0	3.41	12.905
6/15/2020 14:30	0	3.53	12.903
6/16/2020 6:15	0	9.58	13.255
6/16/2020 6:30	0	5.7	13.057
6/16/2020 6:45	0	4.78	13.053
6/16/2020 7:00	0	5.13	13.056
6/16/2020 7:15	0	4.83	13.052
6/16/2020 7:30	0	4.87	13.055
6/16/2020 7:45	0	5.98	13.051
6/16/2020 8:00	0	4.49	13.049

6/16/2020 8:15	0	4.38	13.047
6/16/2020 8:30	0	3.43	13.047
6/16/2020 8:45	0	3.04	13.045
6/16/2020 9:00	0	6.53	13.044
6/16/2020 9:15	0	14.95	13.044
6/16/2020 9:30	0	3.06	13.044
6/16/2020 9:45	0	2.69	13.043
6/16/2020 10:00	0	3.06	13.043
6/16/2020 10:15	0	3.91	13.042
6/16/2020 10:30	0	6.11	13.042
6/16/2020 10:45	0	2.8	13.035
6/16/2020 11:00	0	3.02	13.067
6/16/2020 11:15	0	2.4	13.047
6/16/2020 11:30	0	2.36	13.017
6/16/2020 11:45	0	2.29	13.007
6/16/2020 12:00	0	2.19	12.989
6/16/2020 12:15	0	2.59	12.971
6/16/2020 12:30	0	2.63	12.946
6/16/2020 12:45	0	2.95	12.937
6/16/2020 13:00	0	3.02	12.93
6/16/2020 13:15	0	3.06	12.92
6/16/2020 13:30	0	3.1	12.906
6/16/2020 13:45	0	3.22	12.904
6/16/2020 14:00	0	3.17	12.904
6/17/2020 6:30	0	3.79	13.168
6/17/2020 6:45	0	2.64	13.051
6/17/2020 7:00	0	2.77	13.053
6/17/2020 7:15	0	2.78	13.051
6/17/2020 7:30	0	2.72	13.051
6/17/2020 7:45	0	2.89	13.048
6/17/2020 8:00	0	2.8	13.048
6/17/2020 8:15	0	2.84	13.046
6/17/2020 8:30	0	2.68	13.046
6/17/2020 8:45	0	2.6	13.045
6/17/2020 9:00	0	2.65	13.044
6/17/2020 9:15	0	2.73	13.043
6/17/2020 9:30	0	2.89	13.044
6/17/2020 9:45	0	3.5	13.043
6/17/2020 10:00	0	3.25	13.045
6/17/2020 10:15	0	3.26	13.042
6/17/2020 10:30	0	3.09	13.044
6/17/2020 10:45	0	3.02	13.041
6/17/2020 11:00	0	3.21	13.041
6/17/2020 11:15	0	2.4	13.023
6/17/2020 11:30	0	2.42	13.011
6/17/2020 11:45	0	3.12	13.003

6/17/2020 12:00	0	3.91	12.979
6/17/2020 12:15	0	2.81	12.963
6/17/2020 12:30	0	2.64	12.94
6/17/2020 12:45	0	2.77	12.932
6/17/2020 13:00	0	2.89	12.915
6/17/2020 13:15	0	4.91	12.983
6/17/2020 13:30	0	4.12	12.913
6/17/2020 13:45	0	3.29	12.902
6/17/2020 14:00	0	3.17	12.902
6/17/2020 14:15	0	10.91	12.901
6/17/2020 14:30	0	4.4	12.899
6/18/2020 6:30	0	3.37	13.354
6/18/2020 6:45	0	5.98	13.073
6/18/2020 7:00	0	5.55	13.043
6/18/2020 7:15	0	2.59	13.043
6/18/2020 7:30	0	2.63	13.042
6/18/2020 7:45	0	2.6	13.042
6/18/2020 8:00	0	2.69	13.042
6/18/2020 8:15	0	2.77	13.043
6/18/2020 8:30	0	2.62	13.046
6/18/2020 8:45	0	2.96	13.042
6/18/2020 9:00	0	2.97	13.04
6/18/2020 9:15	0	5.99	13.074
6/18/2020 9:30	0	4.18	13.043
6/18/2020 9:45	0	3.69	13.041
6/18/2020 10:00	0	3.55	13.06
6/18/2020 10:15	0	3.78	13.042
6/18/2020 10:30	0	4.55	13.041
6/18/2020 10:45	0	9.24	13.04
6/18/2020 11:00	0	6.37	13.042
6/19/2020 6:15	0	21.4	13.594
6/19/2020 6:30	0	14.25	13.126
6/19/2020 6:45	0	14.55	13.047
6/19/2020 7:00	0	13.05	13.053
6/19/2020 7:15	0	9.35	13.052
6/19/2020 7:30	0	9.2	13.052
6/19/2020 7:45	0	8.61	13.05
6/19/2020 8:00	0	6.1	13.047
6/19/2020 8:15	0	6.35	13.047
6/19/2020 8:30	0	5.99	13.047
6/19/2020 8:45	0	5.36	13.047
6/19/2020 9:00	0	7.85	13.045
6/19/2020 9:15	0	8.05	13.046
6/19/2020 9:30	0	9.57	13.046
6/19/2020 9:45	0	6.11	13.045
6/19/2020 10:00	0	7.75	13.045
6/19/2020 10:15	0	7.08	13.092
6/19/2020 10:30	0	6.12	13.109

Dynamic Earth · AQS 1150 (AQS1 18122019-1150)
Data export
6/15/2020 to 6/19/2020
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	Battery Voltage (V)
6/15/2020 6:15	0	2.38	13.326
6/15/2020 6:30	0	1.21	13.138
6/15/2020 6:45	0	1.07	13.142
6/15/2020 7:00	0	0.94	13.144
6/15/2020 7:15	0	0.65	13.146
6/15/2020 7:30	0	0.68	13.144
6/15/2020 7:45	0	0.62	13.144
6/15/2020 8:00	0	0.74	13.146
6/15/2020 8:15	0	0.78	13.146
6/15/2020 8:30	0	0.85	13.145
6/15/2020 8:45	0	0.85	13.146
6/15/2020 9:00	0	0.75	13.147
6/15/2020 9:15	0	0.76	13.146
6/15/2020 9:30	0	0.77	13.147
6/15/2020 9:45	0	0.7	13.149
6/15/2020 10:00	0	0.69	13.148
6/15/2020 10:15	0	0.68	13.146
6/15/2020 10:30	0	0.74	13.145
6/15/2020 10:45	0	0.79	13.143
6/15/2020 11:00	0	0.76	13.13
6/15/2020 11:15	0	0.73	13.118
6/15/2020 11:30	0	0.78	13.106
6/15/2020 11:45	0	0.75	13.078
6/15/2020 12:00	0	0.75	13.051
6/15/2020 12:15	0	1.21	13.04
6/15/2020 12:30	0	1.34	13.023
6/15/2020 12:45	0	1.12	13.008
6/15/2020 13:00	0	1.2	13.006
6/15/2020 13:15	0	1.22	13.005
6/15/2020 13:30	0	1.22	13.003
6/15/2020 13:45	0	1.32	13
6/15/2020 14:00	0	1.51	12.997
6/15/2020 14:15	0	1.48	12.991
6/15/2020 14:30	0	1.49	12.991
6/17/2020 6:15	0	3.64	13.718
6/17/2020 6:30	0	2.18	13.297
6/17/2020 6:45	0	1.78	13.129
6/17/2020 7:00	0	1.8	13.121
6/17/2020 7:15	0	1.62	13.122
6/17/2020 7:30	0	1.56	13.13

6/17/2020 7:45	0	1.48	13.136
6/17/2020 8:00	0	1.55	13.142
6/17/2020 8:15	0	1.53	13.143
6/17/2020 8:30	0	1.6	13.145
6/17/2020 8:45	0	1.47	13.147
6/17/2020 9:00	0	1.58	13.145
6/17/2020 9:15	0	1.55	13.148
6/17/2020 9:30	0	1.57	13.149
6/17/2020 9:45	0	1.61	13.151
6/17/2020 10:00	0	1.65	13.151
6/17/2020 10:15	0	1.48	13.153
6/17/2020 10:30	0	1.44	13.153
6/17/2020 10:45	0	1.54	13.152
6/17/2020 11:00	0	1.33	13.154
6/17/2020 11:15	0	0.99	13.152
6/17/2020 11:30	0	0.9	13.151
6/17/2020 11:45	0	0.89	13.151
6/17/2020 12:00	0	0.91	13.145
6/17/2020 12:15	0	0.97	13.13
6/17/2020 12:30	0	0.96	13.107
6/17/2020 12:45	0	1.16	13.084
6/17/2020 13:00	0	1.25	13.06
6/17/2020 13:15	0	1.53	13.064
6/17/2020 13:30	0	1.75	13.069
6/17/2020 13:45	0	1.68	13.033
6/17/2020 14:00	0	1.45	13.024
6/17/2020 14:15	0	1.57	13.014
6/17/2020 14:30	0	0.78	13.017
6/18/2020 6:30	0	2.86	13.561
6/18/2020 6:45	0	1.64	13.223
6/18/2020 7:00	0	1.6	13.118
6/18/2020 7:15	0	1.48	13.111
6/18/2020 7:30	0	1.22	13.111
6/18/2020 7:45	0	1.25	13.113
6/18/2020 8:00	0	1.5	13.113
6/18/2020 8:15	0	2.2	13.114
6/18/2020 8:30	0	2.3	13.116
6/18/2020 8:45	0	1.91	13.115
6/18/2020 9:00	0	1.6	13.116
6/18/2020 9:15	0	1.58	13.119
6/18/2020 9:30	0	1.49	13.121
6/18/2020 9:45	0	1.88	13.12
6/18/2020 10:00	0	1.27	13.119
6/18/2020 10:15	0	1.62	13.12
6/18/2020 10:30	0	2.32	13.119
6/18/2020 10:45	0	3.9	13.117
6/18/2020 11:00	0	4.38	13.114

6/18/2020 11:15	0	4.17	13.116
6/19/2020 6:00	0	13.29	13.671
6/19/2020 6:15	0	7.26	13.247
6/19/2020 6:30	0	5.93	13.121
6/19/2020 6:45	0	5.15	13.121
6/19/2020 7:00	0	4.29	13.129
6/19/2020 7:15	0	3.92	13.136
6/19/2020 7:30	0	3.82	13.142
6/19/2020 7:45	0	3.13	13.142
6/19/2020 8:00	0	2.84	13.146
6/19/2020 8:15	0	2.7	13.143
6/19/2020 8:30	0	2.87	13.149
6/19/2020 8:45	0	2.87	13.171
6/19/2020 9:00	0	3.16	13.2
6/19/2020 9:15	0	3.61	13.205
6/19/2020 9:30	0	3.93	13.206
6/19/2020 9:45	0	4.16	13.208
6/19/2020 10:00	0	4.38	13.178
6/19/2020 10:15	0	3.83	13.149
6/19/2020 10:30	0	3.67	13.147
6/19/2020 10:45	0	3.47	13.175

AIR QUALITY MONITORING REPORT

Project:	Proposed Retail Development NYS BCP Site C360116 & 360066 44 and 45 Stew Leonard Drive Yonkers, Westchester County, New York
Project No.:	0650-98-031EC
Monitor Dates:	6/23/20 – 6/26/20
Data Manager:	D. Silbert
Field Engineers:	S. Hume & T. George
Present on Site:	Craig Geotechnical Drilling (Mark)

As requested, Dynamic Earth, LLC performed the following air quality monitoring services at the above referenced site.

Air Quality Monitoring: During exploratory geotechnical borings and test pits, Dynamic Earth personnel set up three Aeroqual AQS1 Units to monitor PM10 dust particulates and volatile organic compounds (VOCs) to ensure dust or VOCs were not migrating into communities outside the work zone. Two units were set upwind and downwind each day based on the prevailing winds and one unit was moved throughout the day near the active drilling/digging zone to monitor the focal point of potential air quality disruption. PM10 readings of 150ug/m3 above background and VOC exceedances of 5ppm above background will be noted as exceedances. Technical errors were encountered with Unit 1120 on June 23, 2020 and Unit 1150 on June 26, 2020 which has limited our data results, likely caused by a faulty battery connection. Specto has been contacted for a replacement to ensure this issue is resolved. PM10 and VOCs were not encountered during the weekly monitoring at levels nearing any exceedances. A breakdown of the daily prevailing winds, background standards and exceedances are listed below:

June 23, 2020:

- Prevailing Wind – South to North
- PM10 Background Level = 14.01 ug/m3
- VOC Background Level = 0
- Exceedances – None
- Monitor AQS1 experienced a technical error and data was not record data following the first 15 minute interval on Tuesday June 23, 2020

June 24, 2020:

- Prevailing Wind – Northwest to Southeast
- PM10 Background Level = 32.54 ug/m3
- VOC Background Level = 0
- Exceedances – None

June 25, 2020:

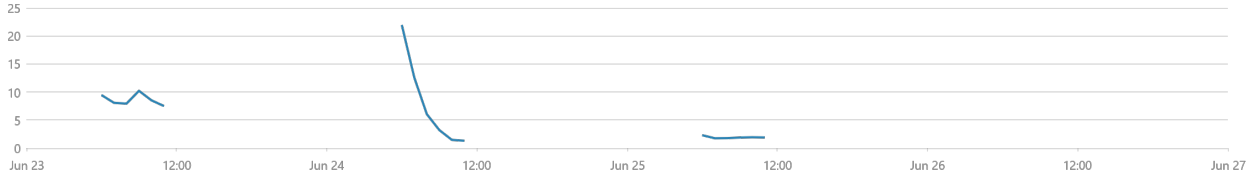
- Prevailing Wind – North to South
- PM10 Background Level = 4.31 ug/m3
- VOC Background Level = 0
- Exceedances – None

June 26, 2020:

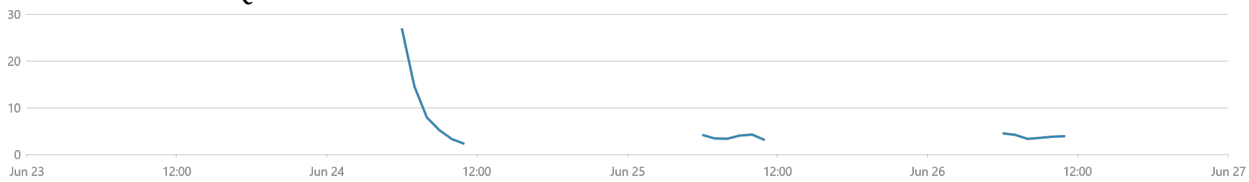
- Prevailing Wind – West to East
- PM10 Background Level = 7.71 ug/m3
- VOC Background Level = 0
- Exceedances – None
- Monitor AQS1 1150 experienced a technical error and data was not recorded on Friday June 26, 2020

PM10 30 Minute Averages (ug/m3)

Air Monitor Unit AQS1 1150



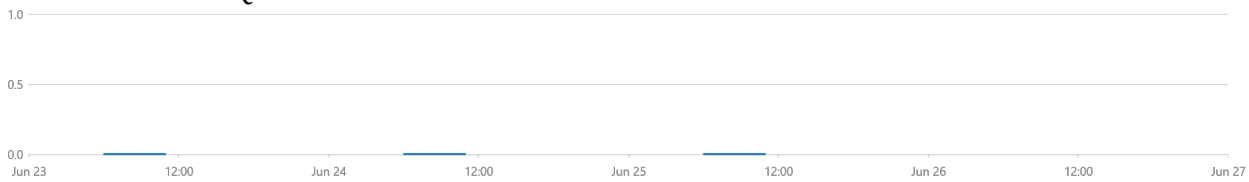
Air Monitor Unit AQS1 1120



Air Monitor Unit AQS1 824

VOC 30 Minute Averages (ppm)

Air Monitor Unit AQS1 1150



Air Monitor Unit AQS1 1120

Air Monitor Unit AQS1 824

Appendix 1
Raw Air Quality Data

Dynamic Earth · AQS1 824 (AQS1 11122018-824)
Data export
6/23/2020 to 6/26/2020
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	WS (m/s)	WD (°)	RAIN (mm/min)	HAIL (/cm²h)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	AN1 (V)
6/23/2020 7:30	-0.05	7.32	0.84	149	0	0	1001.8	23.3	79.9	13.474
6/23/2020 7:45	-0.02	5.32	1.29	171	0	0	1001.8	24	75.6	13.224
6/23/2020 8:00	-0.03	4.44	1.49	176.1	0	0	1001.9	24.8	70.5	13.209
6/23/2020 8:15	-0.03	5.01	1.75	169.2	0	0	1001.8	25.2	69.2	13.212
6/23/2020 8:30	-0.04	5.53	1.84	161.2	0	0	1001.4	25.5	68.4	13.217
6/23/2020 8:45	-0.04	6.47	1.38	158.8	0	0	1001.4	26.2	68.5	13.23
6/23/2020 9:00	-0.05	6.56	1.39	166.8	0	0	1001.5	26.7	66.1	13.231
6/23/2020 9:15	-0.06	6.18								13.231
6/23/2020 9:30	-0.06	6.29								13.252
6/23/2020 9:45	-0.07	6.5								13.289
6/23/2020 10:00	-0.08	6.99								13.286
6/23/2020 10:15	-0.08	6.06								13.274
6/23/2020 10:30	-0.08	6.06								13.295
6/23/2020 10:45	-0.09	7.04								13.301
6/23/2020 11:00	-0.09	7.27								13.29
6/23/2020 11:15	-0.09	7.39								13.299
6/23/2020 11:30	-0.09	7.71								13.281
6/23/2020 11:45	-0.09	7.49								13.29
6/23/2020 12:00	-0.1	6.71								13.284
6/24/2020 7:15	-0.11	26.47	1.13	274.4	0	0	996.7	23.6	85	13.505
6/24/2020 7:30	-0.03	16.21	1.3	254	0	0	996.8	23.8	83.4	13.247
6/24/2020 7:45	-0.03	13.74	1.03	238.9	0	0	996.9	24.1	81.9	13.219
6/24/2020 8:00	-0.03	12.08	1.18	258.6	0	0	997	24.2	81.2	13.244
6/24/2020 8:15	-0.04	10.54	1.37	233.9	0	0	997.1	24.3	80.1	13.235
6/24/2020 8:30	-0.04	8.58	1.45	241.1	0	0	997.1	24.7	78	13.239
6/24/2020 8:45	-0.05	6.74	1.3	248.5	0	0	997.2	24.9	76.1	13.243
6/24/2020 9:00	-0.05	6.23	1.31	279.7	0	0	997.2	25.1	74.7	13.222
6/24/2020 9:15	-0.06	5.88	1.1	273.1	0	0	997.2	25.6	72.2	13.235
6/24/2020 9:30	-0.06	4.79	1.32	266	0	0	997.2	25.9	70.6	13.243
6/24/2020 9:45	-0.06	3.15	1.42	265.7	0	0	997.4	25.8	67.6	13.229
6/24/2020 10:00	-0.06	2.9	1.8	260.1	0	0	997.4	26.6	63.5	13.233
6/24/2020 10:15	-0.07	2.93	1.79	262.4	0	0	997.5	27.2	60.8	13.245
6/24/2020 10:30	-0.07	2.82	3.28	279.1	0	0	997.6	26.7	61.6	13.234
6/24/2020 10:45	-0.07	2.34	2.94	271.3	0	0	997.8	26.4	57.3	13.263
6/24/2020 11:00	-0.07	1.71	2.51	275.1	0	0	998	26.8	49.4	13.253
6/24/2020 11:15	-0.07	1.56	2.03	269.2	0	0	998	27.4	45.5	13.239
6/24/2020 11:30	-0.07	1.47	2.48	269.8	0	0	998.1	27.8	38.8	13.232
6/24/2020 11:45	-0.08	1.44	1.99	275.6	0	0	998.1	28	36.7	13.224
6/25/2020 7:15	-0.08	2.31	0.34	302.2	0	0	1006.1	21.3	65.8	13.625
6/25/2020 7:30	-0.02	1.78	0.76	298.3	0	0	1006	22	61.7	13.297
6/25/2020 7:45	-0.02	1.13	0.89	318.2	0	0	1006	23	54.3	13.201
6/25/2020 8:00	-0.03	1.1	0.8	312.4	0	0	1006.2	23.4	51.6	13.199
6/25/2020 8:15	-0.04	1.46	1.12	295.5	0	0	1006.4	23.6	50.2	13.21
6/25/2020 8:30	-0.04	1.71	1.03	307.5	0	0	1006.5	22.9	52.4	13.217
6/25/2020 8:45	-0.05	2.15	0.54	310.2	0	0	1006.6	23.2	51.9	13.212
6/25/2020 9:00	-0.05	1.93	0.43	330.6	0	0	1006.7	23.4	51.5	13.22
6/25/2020 9:15	-0.05	2.48	0.61	293.7	0	0	1006.7	24.4	46.9	13.223
6/25/2020 9:30	-0.06	2.53	1.31	228.3	0	0	1006.7	24.9	44.9	13.24
6/25/2020 9:45	-0.06	2.42	0.74	215.9	0	0	1006.8	25.6	43.2	13.234
6/25/2020 10:00	-0.07	2.37	1.99	143.4	0	0	1006.9	26.2	42.1	13.246
6/25/2020 10:15	-0.07	2.24								13.244
6/25/2020 10:30	-0.07	2.45								13.241
6/25/2020 10:45	-0.07	2.51								13.225

6/25/2020 11:00	-0.08	2.63								13.246
6/25/2020 11:15	-0.08	2.75								13.253
6/25/2020 11:30	-0.08	2.59								13.286
6/25/2020 11:45	-0.08	2.75								13.273
6/25/2020 12:00	-0.09	2.28								13.278
6/26/2020 7:30	-0.04	2.06	1.25	277.3	0	0	1006.9	22.1	62.8	13.417
6/26/2020 7:45	-0.02	0.96	1.97	297.9	0	0	1006.9	22.9	55.2	13.212
6/26/2020 8:00	-0.03	0.39	1.99	302.9	0	0	1006.8	22.6	55.1	13.2
6/26/2020 8:15	-0.03	1.11	2.06	291.8	0	0	1006.9	23.2	55.3	13.204
6/26/2020 8:30	-0.04	2.34	1.97	293.2	0	0	1007	23.6	55.9	13.205
6/26/2020 8:45	-0.05	2.22	1.5	298.9	0	0	1006.9	23.3	57.2	13.21
6/26/2020 9:00	-0.05	1.98	1.29	277.4	0	0	1006.9	24.4	53.5	13.223
6/26/2020 9:15	-0.05	2.21	1.25	298.3	0	0	1006.8	24.8	50.6	13.221
6/26/2020 9:30	-0.06	1.75	1.47	304.6	0	0	1006.8	25.3	48.2	13.221
6/26/2020 9:45	-0.06	1.67	1.56	302.6	0	0	1006.9	25.7	47.4	13.222
6/26/2020 10:00	-0.07	1.76	1.79	300	0	0	1006.8	26.3	45.7	13.237
6/26/2020 10:15	-0.07	1.92	1.95	283.4	0	0	1006.8	26.6	44.4	13.225
6/26/2020 10:30	-0.07	1.56	1.91	302.3	0	0	1006.8	26.1	44.9	13.225
6/26/2020 10:45	-0.08	1.6	1.74	291.2	0	0	1006.7	25.8	46.2	13.237
6/26/2020 11:00	-0.08	1.58	1.85	295.7	0	0	1006.5	26.6	43.3	13.231
6/26/2020 11:15	-0.08	1.97	1.77	279.9	0	0	1006.4	27.2	41.6	13.243
6/26/2020 11:30	-0.08	1.96	2.09	297.4	0	0	1006.3	27.4	41	13.225
6/26/2020 11:45	-0.08	1.87	1.77	275.8	0	0	1006.3	27.6	39.6	13.268
6/26/2020 12:00	-0.08	3.16	1.65	296.5	0	0	1006.2	27.9	38.7	13.27
6/26/2020 12:15	-0.08	1.35	0.35	266.1	0	0	1006.1	27.9	38.2	13.256
6/26/2020 12:30	-0.08	1.29	1.59	227.9	0	0	1006	28.5	37.3	13.215

Dynamic Earth · AQS1 1120 (AQS1 05122019-1120)
Data export
6/23/2020 to 6/26/2020
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	Battery Voltage (V)
6/23/2020 6:15	0	14.01	13.331
6/24/2020 6:30	0	32.54	13.297
6/24/2020 6:45	0	21.69	13.046
6/24/2020 7:00	0	18.56	13.036
6/24/2020 7:15	0	16	13.03
6/24/2020 7:30	0	13.01	13.032
6/24/2020 7:45	0	10.61	13.033
6/24/2020 8:00	0	9.51	13.036
6/24/2020 8:15	0	8.76	13.036
6/24/2020 8:30	0	7.26	13.036
6/24/2020 8:45	0	5.81	13.036
6/24/2020 9:00	0	5.29	13.028
6/24/2020 9:15	0	4.96	13.03
6/24/2020 9:30	0	5.29	13.029
6/24/2020 9:45	0	4.97	13.022
6/24/2020 10:00	0	4.14	13.017
6/24/2020 10:15	0	3.66	13.065
6/24/2020 10:30	0	2.76	13.08
6/24/2020 10:45	0	2.28	13.081
6/24/2020 11:00	0	2.19	13.079
6/25/2020 6:15	0	4.31	13.461
6/25/2020 6:30	0	4.09	13.11
6/25/2020 6:45	0	4.06	13.045
6/25/2020 7:00	0	3.19	13.043
6/25/2020 7:15	0	3.29	13.042
6/25/2020 7:30	0	3.2	13.043
6/25/2020 7:45	0	3.64	13.043
6/25/2020 8:00	0	3.09	13.043
6/25/2020 8:15	0	3.05	13.043
6/25/2020 8:30	0	3.02	13.04
6/25/2020 8:45	0	3.93	13.043
6/25/2020 9:00	0	3.74	13.042
6/25/2020 9:15	0	4.02	13.044
6/25/2020 9:30	0	4.03	13.043
6/25/2020 9:45	0	4.06	13.042
6/25/2020 10:00	0	4.5	13.042
6/25/2020 10:15	0	4.63	13.066
6/25/2020 10:30	0	4.13	13.098
6/25/2020 10:45	0	3.42	13.097
6/25/2020 11:00	0	2.99	13.104

6/26/2020 6:00	0	7.71	13.442
6/26/2020 6:15	0	4.68	13.073
6/26/2020 6:30	0	4.31	13.051
6/26/2020 6:45	0	3.46	13.053
6/26/2020 7:00	0	3.65	13.054
6/26/2020 7:15	0	3.99	13.055
6/26/2020 7:30	0	4.71	13.051
6/26/2020 7:45	0	4.14	13.049
6/26/2020 8:00	0	3.78	13.049
6/26/2020 8:15	0	3.25	13.047
6/26/2020 8:30	0	3	13.047
6/26/2020 8:45	0	2.95	13.047
6/26/2020 9:00	0	3.38	13.045
6/26/2020 9:15	0	3.55	13.044
6/26/2020 9:30	0	3.41	13.042
6/26/2020 9:45	0	3.53	13.044
6/26/2020 10:00	0	3.56	13.042
6/26/2020 10:15	0	3.7	13.039
6/26/2020 10:30	0	3.76	13.031
6/26/2020 10:45	0	3.85	13.016
6/26/2020 11:00	0	4	13.01
6/26/2020 11:15	0	3.85	13.063
6/26/2020 11:30	0	3.55	13.062

Dynamic Earth · AQS 1150 (AQS1 18122019-1150)
Data export
6/23/2020 to 6/26/2020
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	Battery Voltage (V)
6/23/2020 6:30	0	10.15	13.342
6/23/2020 6:45	0	8.96	13.122
6/23/2020 7:00	0	8.55	13.112
6/23/2020 7:15	0	8.8	13.115
6/23/2020 7:30	0	6.74	13.127
6/23/2020 7:45	0	8.19	13.137
6/23/2020 8:00	0	7.91	13.143
6/23/2020 8:15	0	8.27	13.145
6/23/2020 8:30	0	7.45	13.179
6/23/2020 8:45	0	8.08	13.204
6/23/2020 9:00	0	10.59	13.202
6/23/2020 9:15	0	11.53	13.207
6/23/2020 9:30	0	9.51	13.21
6/23/2020 9:45	0	9.2	13.21
6/23/2020 10:00	0	8.3	13.208
6/23/2020 10:15	0	8.57	13.207
6/23/2020 10:30	0	8.84	13.205
6/23/2020 10:45	0	8.33	13.201
6/23/2020 11:00	0	7.5	13.207
6/24/2020 6:30	0	25.08	13.069
6/24/2020 6:45	0	19.04	13.054
6/24/2020 7:00	0	16.45	13.067
6/24/2020 7:15	0	13.84	13.075
6/24/2020 7:30	0	11.08	13.073
6/24/2020 7:45	0	8.84	13.073
6/24/2020 8:00	0	7.57	13.074
6/24/2020 8:15	0	6.75	13.063
6/24/2020 8:30	0	5.58	13.051
6/24/2020 8:45	0	4.24	13.042
6/24/2020 9:00	0	3.67	13.035
6/24/2020 9:15	0	3.7	13.014
6/24/2020 9:30	0	3.09	13.01
6/24/2020 9:45	0	2.36	13.007
6/24/2020 10:00	0	1.84	13.006
6/24/2020 10:15	0	1.64	13.025
6/24/2020 10:30	0	1.16	13.046
6/24/2020 10:45	0	1.2	13.046
6/24/2020 11:00	0	1.31	13.049
6/25/2020 6:00	0	2.93	13.305
6/25/2020 6:15	0	2.37	13.123

6/25/2020 6:30	0	2.15	13.129
6/25/2020 6:45	0	2.03	13.133
6/25/2020 7:00	0	1.77	13.133
6/25/2020 7:15	0	1.69	13.133
6/25/2020 7:30	0	1.79	13.126
6/25/2020 7:45	0	1.74	13.127
6/25/2020 8:00	0	1.71	13.127
6/25/2020 8:15	0	1.65	13.125
6/25/2020 8:30	0	1.81	13.121
6/25/2020 8:45	0	1.92	13.119
6/25/2020 9:00	0	1.98	13.118
6/25/2020 9:15	0	1.87	13.114
6/25/2020 9:30	0	1.82	13.117
6/25/2020 9:45	0	1.84	13.114
6/25/2020 10:00	0	1.92	13.115
6/25/2020 10:15	0	1.83	13.115
6/25/2020 10:30	0	2.06	13.168
6/25/2020 10:45	0	1.91	13.171
6/25/2020 11:00	0	1.89	13.156

AIR QUALITY MONITORING REPORT

Project:	Proposed Retail Development NYS BCP Site C360116 & 360066 44 and 45 Stew Leonard Drive Yonkers, Westchester County, New York
Project No.:	0650-98-031EC
Monitor Dates:	6/29/20 – 6/30/20
Data Manager:	D. Silbert
Field Engineers:	S. Hume & T. George
Present on Site:	Craig Geotechnical Drilling (Mark)

As requested, Dynamic Earth, LLC performed the following air quality monitoring services at the above referenced site.

Air Quality Monitoring: During exploratory geotechnical borings and test pits, Dynamic Earth personnel set up three Aeroqual AQS1 Units to monitor PM10 dust particulates and volatile organic compounds (VOCs) to ensure dust or VOCs were not migrating into communities outside the work zone. Two units were set upwind and downwind each day based on the prevailing winds and one unit was moved throughout the day near the active drilling/digging zone to monitor the focal point of potential air quality disruption. PM10 readings of 150ug/m3 above background and VOC exceedances of 5ppm above background will be noted as exceedances. A technical error, later determined as hard drive failure, was encountered with Unit 1150 during the week which has limited our data results to Units 824 and 1120 only. The two units that were definitively working were placed downwind and within the active work zone. PM10 and VOCs were not encountered during the weekly monitoring at levels nearing any exceedances. A breakdown of the daily prevailing winds, background standards and exceedances are listed below:

June 29, 2020:

- Prevailing Wind – North to South
- PM10 Background Level = 10.33 ug/m3
- VOC Background Level = 0
- Exceedances – None
- Unit AQS1 1150 was running upwind due to a suspected modem issue restricting mobile data access, however hard drive failure occurred and the upwind data was not recorded.
-

June 30, 2020:

- Prevailing Wind – North to South
- PM10 Background Level = 4.58 ug/m3
- VOC Background Level = 0
- Exceedances – None
- Unit AQS1 1150 was running upwind due to a suspected modem issue restricting mobile data access, however hard drive failure occurred and the upwind data was not recorded.

PM10 30 Minute Averages (ug/m3)

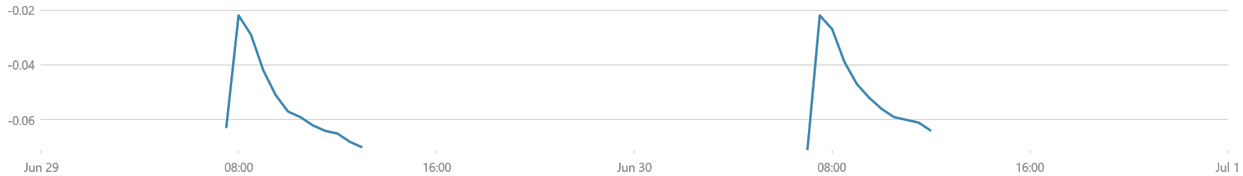
Air Monitor Unit AQS1 1120

Air Monitor Unit AQS1 824

VOC 30 Minute Averages (ppm)

Air Monitor Unit AQS1 1120

Air Monitor Unit AQS1 824



Appendix 1
Raw Air Quality Data

Dynamic Earth · AQS1 824 (AQS1 11122018-824)
Data export
6/29/2020 to 6/30/2020
(UTC-05:00) Eastern Time (US & Canada) (Summer time adjusted)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	WS (m/s)	WD (°)	RAIN (mm/min)	HAIL (/cm²h)	PRESS (hPa)	AIR T (°C)	AIR RH (%)	AN1 (V)
6/29/2020 7:45	-0.06	5.27	1.58	278.7	0	0	1000.7	21.3	83.7	13.549
6/29/2020 8:00	-0.02	2.63	1.07	302.6	0	0	1000.8	22.2	79.6	13.239
6/29/2020 8:15	-0.02	2.24	1.58	299.5	0	0	1001	23	75.6	13.212
6/29/2020 8:30	-0.03	2.36	2.07	298.3	0	0	1001.1	23.3	73	13.188
6/29/2020 8:45	-0.03	2.42	1.9	301.1	0	0	1001.1	23.6	71.4	13.211
6/29/2020 9:00	-0.04	2.88	2.13	305.1	0	0	1001.1	23.9	70.8	13.208
6/29/2020 9:15	-0.04	3.14								13.216
6/29/2020 9:30	-0.05	3.16								13.201
6/29/2020 9:45	-0.05	3.32								13.212
6/29/2020 10:00	-0.06	3.52								13.203
6/29/2020 10:15	-0.06	3.6								13.208
6/29/2020 10:30	-0.06	3.2								13.216
6/29/2020 10:45	-0.06	3.27								13.208
6/29/2020 11:00	-0.06	3.4								13.209
6/29/2020 11:15	-0.06	3.55								13.22
6/29/2020 11:30	-0.06	3.61								13.219
6/29/2020 11:45	-0.06	3.43								13.209
6/29/2020 12:00	-0.06	3.24								13.227
6/29/2020 12:15	-0.07	3.41								13.215
6/29/2020 12:30	-0.07	2.94								13.211
6/29/2020 12:45	-0.07	2.77								13.204
6/29/2020 13:00	-0.07	2.68								13.212
6/30/2020 7:15	-0.07	2.64	1.18	317.5	0	0	1003.2	19.5	86.3	13.619
6/30/2020 7:30	-0.02	0.24	1.24	322	0	0	1003.2	20	83.6	13.27
6/30/2020 7:45	-0.02	-0.38	1.76	312.6	0	0	1003.4	20.6	80.9	13.186
6/30/2020 8:00	-0.02	-0.15	1.93	324	0	0	1003.5	21	79.2	13.18
6/30/2020 8:15	-0.03	0.08	1.96	311.9	0	0	1003.6	21.2	77.2	13.198
6/30/2020 8:30	-0.04	0.43	1.94	325.4	0	0	1003.6	21.5	76.3	13.206
6/30/2020 8:45	-0.04	0.66	1.6	331	0	0	1003.7	21.9	75.1	13.203
6/30/2020 9:00	-0.05	1.04								13.205
6/30/2020 9:15	-0.05	2.85								13.205
6/30/2020 9:30	-0.05	2.96								13.205
6/30/2020 9:45	-0.05	1.19								13.216
6/30/2020 10:00	-0.05	1.28								13.231
6/30/2020 10:15	-0.06	1.47								13.221
6/30/2020 10:30	-0.06	1.44								13.218
6/30/2020 10:45	-0.06	1.37								13.214
6/30/2020 11:00	-0.06	1.21								13.221
6/30/2020 11:15	-0.06	1.48								13.214
6/30/2020 11:30	-0.06	1.54								13.221
6/30/2020 11:45	-0.06	1.67								13.202
6/30/2020 12:00	-0.06	1.34								13.212
6/30/2020 12:15	-0.06	1								13.208

Dynamic Earth · AQS1 1120 (AQS1 05122019-1120)
Data export
6/29/2020 to 6/30/2020
(UTC-05:00) Eastern Time (US & Canada)
Averaging period: 15 minutes

Time	VOC H (ppm)	PM10 (µg/m³)	Battery Voltage (V)
6/29/2020 6:30	0	10.33	13.438
6/29/2020 6:45	0	5.95	13.072
6/29/2020 7:00	0	6.02	13.048
6/29/2020 7:15	0	6.1	13.052
6/29/2020 7:30	0	6.31	13.043
6/29/2020 7:45	0	6.06	13.044
6/29/2020 8:00	0	6.25	13.043
6/29/2020 8:15	0	6.02	13.044
6/29/2020 8:30	0	5.75	13.045
6/29/2020 8:45	0	6.12	13.045
6/29/2020 9:00	0	6.08	13.044
6/29/2020 9:15	0	5.95	13.044
6/29/2020 9:30	0	5.63	13.045
6/29/2020 9:45	0	5.71	13.045
6/29/2020 10:00	0	5.61	13.067
6/29/2020 10:15	0	6.1	13.096
6/29/2020 10:30	0	5.81	13.044
6/29/2020 10:45	0	5.55	13.043
6/29/2020 11:00	0	6.19	13.044
6/29/2020 11:15	0	6.1	13.043
6/29/2020 11:30	0	5.9	13.04
6/29/2020 11:45	0	5.77	13.041
6/30/2020 6:00	0.34	4.58	13.549
6/30/2020 6:15	0	2.45	13.148
6/30/2020 6:30	0	4.07	13.045
6/30/2020 6:45	0	3.14	13.042
6/30/2020 7:00	0	3.42	13.045
6/30/2020 7:15	0	3.68	13.043
6/30/2020 7:30	0	3.19	13.046
6/30/2020 7:45	0	3.21	13.044
6/30/2020 8:00	0	3.29	13.046
6/30/2020 8:15	0	3.65	13.049
6/30/2020 8:30	0	3.4	13.047
6/30/2020 8:45	0	19.39	13.049
6/30/2020 9:00	0	14.74	13.046
6/30/2020 9:15	0	3.31	13.048
6/30/2020 9:30	0	3	13.046
6/30/2020 9:45	0	3.21	13.046
6/30/2020 10:00	0	3.37	13.044
6/30/2020 10:15	0	3.74	13.045
6/30/2020 10:30	0	3.7	13.043
6/30/2020 10:45	0	4.19	13.041
6/30/2020 11:00	0	3.92	13.04
6/30/2020 11:15	0	3.4	13.032
6/30/2020 11:30	0	3.51	13.017

APPENDIX B: DAILY FIELD SUMMARY REPORTS

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/10/2020

Weather: Sunny, 87°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling performed two borings and three test pits at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-1: Final depth 33 feet; No apparent demarcation fabric was encountered. Upon cuttings were used for backfilled to 5.5 feet where the top of cinders and ash was encountered. The remaining six feet was grouted.

- B-2: Final depth 47 feet; Demarcation fabric encountered at 5.5 feet. Upon completion of B-2 cuttings were used for backfilled to six feet below grade. The remaining six feet were grouted.

- TP-1: Final depth nine feet (refusal); no demarcation fabric encountered; new fabric was placed at 5.3 feet where the top of cinders and ash were encountered. All excavated landfill materials placed below demarcation fabric and soil cap restored.

- TP-3: Final depth 10.2 feet (refusal); demarcation fabric encountered at four feet; new fabric placed at the same depth. All excavated landfill materials placed below demarcation fabric and soil cap restored.

- TP-5: Final depth five feet (refusal); demarcation fabric encountered at 1.7 feet; new fabric placed at the same depth. All excavated landfill materials placed below demarcation fabric and soil cap restored.

The air monitors were set up upwind, downwind, and at the approximate locations of work zone. Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/11/2020

Weather: Overcast/Rain, 81°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling performed three borings and five test pits at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-3: Final depth 30.1 feet; Upon completion of B-3 cuttings were used as backfill to six feet below grade. The remaining six feet was grouted.
- B-4: Final depth 30 feet; Upon completion of B-4 cuttings were used as backfill to six feet below grade. The remaining six feet was grouted.
- B-5: Final depth 35 feet; Upon completion of B-5 cuttings were used as backfill to six feet below grade. The remaining six feet was grouted.
- TP-6: Final depth nine feet (refusal); demarcation fabric encountered at 1.5 feet; new fabric placed at the same depth. All excavated landfill materials placed below demarcation fabric and soil cap restored.
- TP-7: Final Depth eight feet (refusal); demarcation fabric encountered at 2.3 feet, new fabric placed at the same depth. All excavated landfill materials placed below demarcation fabric and soil cap restored.

TP-8, 9, and 10 were located outside of the existing landfill, as such no historic fill or demarcation fabric was encountered.

- TP-8: Final depth 2.2 feet (refusal);
- TP-9: Final depth 4.5 feet (refusal)
- TP-10: Final depth 9.5 feet (refusal)

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/12/2020

Weather: Sunny, 82°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling performed two borings and five test pits at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-6: Final depth 33 feet; Upon completion of B-6 cuttings were used as backfill to six feet below grade. The remaining six feet were grouted.
- B-7: Final depth 41.7 feet; Upon completion of B-7 cuttings were used as backfill to six feet below grade. The remaining six feet were grouted.

TP-11, 12, 13, 14, 15 were located outside of the existing landfill, as such no historic fill or demarcation fabric was encountered.

- TP-11: Final depth 7 feet (refusal)
- TP-12: Final depth 1.2 feet (refusal)
- TP-13: Final depth 3 feet (refusal)
- TP-14: Final depth 5 feet (refusal)
- TP-15: Final depth 1.7 feet (refusal)

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/15/2020

Weather: Sunny, 72°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling performed two borings and six test pits at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-8 Final depth 53 feet; Upon completion of B-8 cuttings were used for backfilled to six feet, and the top six feet were grouted.
- B-9: Final depth 30.7 feet; Upon completion of B-9 cuttings were used for backfilled to six feet, and the top six feet were grouted.
- TP-16: Final depth 7.3 feet (refusal); demarcation fabric encountered at 3.8 feet; new fabric placed approximately at the same depth.
- TP-17: Final depth 9.2 feet (refusal); demarcation fabric encountered at 3.0 feet, new fabric placed approximately at the same depth.
- TP-18: Final depth 11 feet; demarcation fabric encountered at 5.3 feet, new fabric placed approximately at the same depth.
- TP-19: Final depth 12 feet; demarcation fabric encountered at 4.5 feet, new fabric placed approximately at the same depth.
- TP-20: Final depth 12 feet; demarcation fabric encountered at 2.5 feet, new fabric placed approximately at the same depth.
- TP-21: Final depth 9.2 feet (refusal); demarcation fabric encountered at 2.3 feet, new fabric placed approximately at the same depth.

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/16/2020

Weather: Sunny, 78°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling performed nine borings and two test pits at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-10 Final depth 18 feet; landfill material to 12 feet; rock to 18 feet.
  Upon completion of B-10 cuttings were used for backfilled to six feet, and the top six feet were grouted.

Borings B-11 through B-16 were not located within the existing landfill.

- B-11/11A: Final depth 1.5 feet; Fill material to 1.5 feet; refusal at 1.5 feet at both B-11 and B-11A. Upon completion of B-11 cuttings were used for backfill.

- B-12: Final depth 10 feet; fill material to 1.8 feet; weathered rock to 5 feet, rock to 10 feet. Upon completion of B-12 cuttings were used for backfilled to five feet, and the top five feet were grouted.

- B-13: Final depth 10 feet; fill material to 0.9 feet; weathered rock to 5 feet, rock to 10 feet. Upon completion of B-13 cuttings were used for backfilled to five feet, and the top five feet were grouted.

- B-14: Final depth 10 feet; fill material to 1.6 feet; weathered rock to 5 feet, rock to 10 feet. Upon completion of B-14 cuttings were used for backfilled to five feet, and the top five feet were grouted.

- B-15/15A: Final depth 2.0 feet; Fill material to 2.0 feet; refusal at 2.0 feet at both B-15 and B-15A. Upon completion of B-15 cuttings were used for backfill.

- B-16/16A: Final depth 1.9 feet; Fill material to 1.9 feet; refusal at 1.9 feet at both B-16 and B-16A. Upon completion of B-16 cuttings were used for backfill.

- TP-22: Final depth 11.5 feet; demarcation fabric encountered at 4.7 feet, new fabric placed approximately at the same depth.

- TP-23: Final depth 12 feet; no historical fill or demarcation fabric encountered.

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/17/2020

Weather: Sunny, 82°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling performed two borings and four test pits at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-17: Final depth 65 feet; Upon completion of B-17 cuttings were used for backfill to six feet, and the top six feet were grouted.
- B-18: Final depth 42 feet; Landfill materiaThis hole not backfilled, the piezometer is to be installed first thing on 6/18/2020.
- TP-2: Final depth 12 feet; demarcation fabric encountered at 3 feet, new fabric placed approximately at the same depth.
- TP-24: Final depth 12 feet; no historical landfill or demarcation fabric encountered.
- TP-25: Final depth 12 feet; demarcation fabric encountered at 2.0 feet, new fabric placed approximately at the same depth.
- TP-26: Final depth 11 feet; demarcation fabric encountered at 4.7 feet, new fabric placed approximately at the same depth.

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/18/2020

Weather: Overcast, 80°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling performed one borings and three test pits at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-19: Final depth 98 feet. Upon completion of B-19 cuttings were used for backfill to six feet, and the top six feet were grouted.
- TP-4: Final depth 9 feet (refusal); no historical fill or demarcation fabric encountered.

TP-27 and TP-28 were located outside of the existing landfill.

- TP-27: Final depth 3 feet (refusal)
- TP-28: Final depth 4.5 feet (refusal)

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/19/2020

Weather: Sunny, 83°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling performed one boring at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-20: Final depth 95.1 feet; Upon completion of B-20 cuttings were used for backfill to six feet, and the top six feet were grouted.

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/23/2020

Weather: Sunny, 86°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling performed one boring at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-21: Final depth 100.1 feet. Upon completion of B-21 cuttings were used for backfill to five feet, and the top five feet were grouted.

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/24/2020

Weather: Partly Cloudy, 84°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling completed two borings at the subject site. A third boring was started and is scheduled to be completed tomorrow. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-28: Final depth 45 feet. Upon completion of B-28 cuttings were used for backfill to five feet, and the top five feet were grouted.
- B-27: Final depth 46 feet. Upon completion of B-27 cuttings were used for backfill to five feet, and the top five feet were grouted.
- B-26: Currently at 30 feet; to be completed tomorrow, June 25, 2020.

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/25/2020

Weather: Sunny, 81°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling completed two borings at the subject site. A third boring was started and is scheduled to be completed tomorrow. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-26: Final depth 55.1 feet; refusal at 55.1 feet. Upon completion of B-26 cuttings were used for backfill to five feet, and the top five feet were grouted.
- B-25: Final depth 65.2 feet; refusal at 65.2 feet. Upon completion of B-25 cuttings were used for backfill to five feet, and the top five feet were grouted.
- B-24: Currently at 47 feet; to be completed tomorrow.

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/26/2020

Weather: Sunny, 86°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling completed one borings at the subject site. A second boring was started and is scheduled to be completed Monday June 29, 2020. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-24: Final depth 81.4 feet. Upon completion of B-24 cuttings were used for backfill to five feet, and the top five feet were grouted.

- B-22: Currently at 65 feet; to be completed Monday.

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/29/2020

Weather: Sunny, 87°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling completed one borings at the subject site. A second boring was started and is scheduled to be completed Tuesday June 30, 2020. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-22: Final depth 88 feet. Upon completion of B-22 cuttings were used for backfill to five feet, and the top five feet were grouted.

- B-23: Currently at 45 feet; to be completed tomorrow.

Results of the community air monitoring program did not indicate any exceedances.

DYNAMIC EARTH

REPORT OF SITE INSPECTION

Project: Proposed Retail Development
NYS BCP Site C360116 & 360066
44 and 45 Stew Leonard Drive
West Chester County, New York

Project No.: 0650-99-031EC **Inspection Date:** 06/30/2020

Weather: Overcast, 78°F **Inspector:** S. Hume

Present on Site: Craig Geotechnical Drilling (Mark)

Borings and Test Pit Inspection: Craig Geotechnical Drilling completed seven borings at the subject site. The work performed was done in accordance with Dynamic Earth's March 4, 2020 *Geotechnical Work Investigation Plan.*

- B-23: Final depth 60.1 feet. Upon completion of B-23 cuttings were used for backfill to five feet, and the top five feet were grouted.
- B-29: Final depth 10 feet. Upon completion of B-29, bentonite hole plug was used to backfill to five feet, and the top five feet were grouted.
- B-30: Final depth 10 feet. Upon completion of B-30, bentonite hole plug was used to backfill to five feet, and the top five feet were grouted.
- B-31: Final depth 10 feet. Upon completion of B-31, bentonite hole plug was used to backfill to five feet, and the top five feet were grouted.
- B-32: Final depth 10 feet. Upon completion of B-32, bentonite hole plug was used to backfill to five feet, and the top five feet were grouted.
- B-33: Final depth 10 feet. Upon completion of B-33, bentonite hole plug was used to backfill to five feet, and the top five feet were grouted.
- B-34: Final depth 10 feet. Upon completion of B-34, bentonite hole plug was used to backfill to five feet, and the top five feet were grouted.

Results of the community air monitoring program did not indicate any exceedances.

about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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