

# WEEKLY PROGRESS STATUS REPORT

**Site Name:** Vo-Toys Site, Harrison, New Jersey

**CERCLA Docket No.:** 02-2019-2028

**Report No.:** 122

**Report Date:** August 4, 2023

**Reporting Period:** July 31 to August 4, 2023

## 1 Weekly Progress Meeting – August 3, 2023

<i>Name</i>	<i>Company</i>	<i>Title/Position</i>	<i>On-Site</i>	<i>Call-In</i>
Varacchi-Ives, Dawn	General Electric	Project Coordinator		✓
Musser, Doug	Anchor QEA	Project Manager		✓
Carrillo-Sheridan, Margaret	Anchor QEA	Engineer of Record		✓
Bleichner, Alex	Anchor QEA	Engineer's Representative		✓
Colquhoun, Steve	Anchor QEA	Engineer's Representative	✓	
Hathaway, Sandy	Anchor QEA	Task Manager		✓
Shuler, Randy	WSP	LSRP		✓
Karl, Tovah	WSP	Project Manager		✓
Husted, Chris	WSP	Task Manager		✓
Mueck, John	WSP	Construction Manager	✓	
Rosoff, Dave	USEPA	On-Scene Coordinator		✓
Byk, Jon	USEPA	On-Scene Coordinator	✓	

## 2 Health and Safety

<b>Hours Worked Summary:</b>	
Building A East Footer and Soil Removal Project to Date as of August 4, 2023	
Anchor QEA	1515
WSP	1716
EWMI	5021.5

- Daily health and safety meetings were conducted each morning.
- The team discussed emergency evacuations and the importance of understanding your escape route/exit in case of emergency whether on a jobsite, in a hotel or at home.

### 3 Work Completed – July 31 to August 4, 2023

#### WSP/EWMI (RA Contractor)

- Continued the central sewer piping removal/assessment in the Building A/B courtyards.
- Excavated and screened footers B14, C14, and D16.
- Backfilled and compacted excavation areas.
- Excavated surface soil in the Building A footprint (central portion) based on mercury vapor screening. The surface soil assessment/removal progressed from east to west as the temporary haul road was removed.
- Installed orange fencing to separate Building A East from West.
- Contacted PSE&G to verify a gas line encountered during excavation at the west end of the A/C courtyard was inactive. PSE&G cut the gas line and verified it was inactive.
- Contacted Town of Harrison DPW to confirm a waterline encountered during excavation at the west end of the Building A/C courtyard was inactive. Waterline was tapped and found to be inactive.
- Performed work area air monitoring.
- Segregated, staged, and sized waste materials.
- Covered/tarped waste containers/stockpiles when not in active use.
- Coordinated and scheduled off-site transportation and disposal.
- Collected post-excavation samples from piping excavations to support the NJDEP LSRP requirements.
- Waste transported off-site this week included the following:
  - 25 loads (551.68 tons) of nonhazardous soil
  - Four loads (89.92 tons) of nonhazardous concrete
  - Two loads (48.0 tons) of hazardous soil impacted with Hg and Cd

#### Anchor QEA (Engineer and Air Monitor)

- Performed work area perimeter and site perimeter air monitoring in accordance with the CAMP (during intrusive activities). A summary of work area perimeter air monitoring data is presented in the Weekly Air Monitoring Report.
- Performed offsite/community air monitoring in accordance with the CAMP.
- Reviewed and documented RA activities.
- Documented MVA and visual observations during pipe removal activities.
- Documented MVA screening of surface soil within the Building A footprint. Rescreened soil surface following removal of soil with elevated mercury vapor. Surface soil screening (and removal) progressed from west to east as the temporary haul road was removed.
- Prepared Weekly Air Monitoring Report (Attachment 1 to this report).

- Prepared summary of utility disconnections.

## 4 Anticipated Work for Upcoming Week

### WSP/EWMI (RA Contractor)

- Removing/assessing the central sewer pipe in the Building A/C courtyard.
- Mercury vapor screening and post-excavation soil sampling in the pipe removal work areas.
- Continued removal of the temporary haul road from east to west. Removing surface soil (if necessary) following road removal and mercury vapor assessment. Also removing waste staging areas in the Building A footprint.
- Removing previously identified pipes in the western portion of Building A.
- Coordinating the transportation and disposal of the waste
- Tracking waste shipments and disposal documentation.

### Anchor QEA (Engineer and Air Monitor)

- Performing work area perimeter and site perimeter air monitoring in accordance with the CAMP (during intrusive activities).
- Performing offsite/community air monitoring in accordance with the CAMP.
- Reviewing and documenting RA activities.
- Mercury vapor screening of surface soil as the temporary haul road/staging areas are removed.
- Assessing pipes removed from the western portion of Building A and the A/C courtyard piping removal.
- Preparing a summary of utility disconnection activities to date. Reviewing the disconnect activities with the Town of Harrison.

## 5 Status of Submittal Review

- None

## 6 Community Participation

- None.

## 7 Project Delays, Construction Issues/Modifications or Potential Modifications to AOC

- None.

## 8 Overall Project Schedule Update

- None.

## Attachment 1 – Weekly Air Monitoring Report

# WEEKLY AIR MONITORING REPORT

## Vo-Toys Removal Action

**Site Name:** Vo-Toys Site, Harrison, New Jersey

**CERCLA Docket No.:** 02-2019-2028

**Report No.:** 121

**Report Date:** August 4, 2023

**Reporting Period:** July 31 to August 4, 2023

## 1 Introduction

This report summarizes the Vo-Toys Removal Action (RA) air monitoring program conducted between July 31 to August 4, 2023, at the Vo-Toys site located at 400 South 5<sup>th</sup> Street, Harrison, New Jersey (the site). Air monitoring for particulates less than 10 microns in diameter (PM<sub>10</sub>) and mercury vapor was conducted in accordance with the U.S. Environmental Protection Agency (USEPA)-approved Community Air Monitoring Plan (CAMP). PM<sub>10</sub> and mercury vapor results were compared with action levels presented in the CAMP.

Air monitoring during the week of July 31, 2023, included the following monitoring tasks:

- Meteorological monitoring
- Work area perimeter air monitoring
- Site perimeter air monitoring

A summary of the monitoring activities that were conducted is presented in Section 3.

## 2 Meteorological Monitoring

Meteorological monitoring was conducted to measure wind speed, wind direction, and air temperature. Meteorological readings were recorded on a data logging device and evaluated at least three times per day to determine the upwind and downwind boundaries of the site.

Table 2-1 presents a summary of the meteorological monitoring during the week of July 31, 2023. The attached site air monitoring figures show the locations of the meteorological sensors.

**Table 2-1  
Meteorological Monitoring Summary**

Date	Weather
July 31, 2023	Sunny, High in the mid-80s °F; Winds: 5-10 mph NW (Online)
August 1, 2023	Sunny, High in the low 80s °F; Winds: 5-10 mph SW (Online)
August 2, 2023	Sunny, High in the low 80s °F; Winds 0-5 mph N (Online)
August 3, 2023	Sunny, High in the low 80s °F; Winds 5-15 mph S (Online)
August 4, 2023	Overcast, High in the low 80s °F; Winds 5-15 mph S (Online)

### 3 PM<sub>10</sub> and Mercury Vapor Monitoring

#### 3.1 Work Area Perimeter Air Monitoring

Air monitoring was performed at the perimeter of the RA work areas and the RA activities were modified as necessary so that particulates and mercury vapors above action levels were not migrating to the site perimeter and off-site/community air monitoring locations. The work area perimeter monitoring locations were in or adjacent to the building footprints and were determined based on the location and extent of RA activities and the prevailing wind direction. Readings were recorded and maintained on site by the Engineer.

A summary of work area perimeter air monitoring data is presented in the table below.

#### Summary of Anchor QEA's Work Area Perimeter Air Monitoring for PM<sub>10</sub> and Mercury Vapor

Date	PM <sub>10</sub> 15-Minute Average Range (ug/m <sup>3</sup> ) <i>Action Level &lt;125 ug/m<sup>3</sup></i>	Mercury Vapor 15-Minute Average Range (ug/m <sup>3</sup> ) <i>Action Level &lt;10 ug/m<sup>3</sup></i>
<b>Building A East End Removals</b>		
July 31, 2023	5.0 – 26.0	0.0 – 0.0
August 1, 2023	3.0 – 18.0	0.0 – 0.0
August 2, 2023	4.0 – 6.0	0.0 – 0.0
August 3, 2023	6.0 – 17.0	0.0 – 2.0
August 4, 2023	10.0 – 49.0	0.0 – 1.0

Notes:

1. ug/m<sup>3</sup>: micrograms per cubic meter.
2. PM<sub>10</sub> action levels: Normal operations if 15-minute average of PM<sub>10</sub> readings is <125 ug/m<sup>3</sup>. If readings >125 ug/m<sup>3</sup> additional actions would be required per CAMP.
3. Mercury vapor action level: Normal operations if mercury vapor for a single reading is <10 ug/m<sup>3</sup>.
4. See CAMP for further details on action levels.

#### 3.2 Site Perimeter Air Monitoring Summary

Site perimeter monitoring was performed to document that particulates (PM<sub>10</sub>) or mercury vapor above action levels were not migrating beyond the site boundary. Four air monitoring stations were

located outside the building footprints around the site perimeter: one upwind and three downwind. Figures SP-1 through SP-5 show the locations of the site perimeter stations each day. Readings were recorded and maintained on site by the Engineer.

All PM<sub>10</sub> and mercury vapor site perimeter air monitoring data were below action levels defined in the CAMP. A summary of site perimeter air monitoring data is presented in Table 3.

**Table 3-1  
Summary of PM<sub>10</sub> and Mercury Vapor Site Perimeter Air Monitoring**

Date	Air Monitoring Station/Location	Upwind/Downwind	PM <sub>10</sub> 15-Minute Average Range (ug/m <sup>3</sup> ) Action Level <100 ug/m <sup>3</sup>	Mercury Vapor 15-Minute Average Range (ug/m <sup>3</sup> ) Action Level <10 ug/m <sup>3</sup>
7/31/2023	Station 1 – West	Downwind	3.47 – 15.1	0.10 – 0.27
	Station 2 – East	Downwind	0.0667 – 13.2	0.10 – 0.92
	Station 3 – Southeast	Downwind	5.13 – 68.7	0.10 – 0.28
	Station 4 – North	Upwind	3.0 – 20.1	0.10 – 0.26
8/1/2023	Station 1 – West	Downwind	3.13 – 77.0	0.10 – 0.19
	Station 2 – East	Downwind	0.0 – 9.93	0.10 – 0.33
	Station 3 – Southeast	Upwind	1.93 – 67.7	0.10 – 0.14
	Station 4 – North	Downwind	6.0 – 13.7	0.10 – 0.42
8/2/2023	Station 1 – West	Downwind	3.6 – 14.5	0.10 – 0.26
	Station 2 – East	Downwind	0.0667 – 11.4	0.10 – 0.49
	Station 3 – Southeast	Downwind	2.07 – 32.9	0.10 – 0.14
	Station 4 – North	Upwind	5.13 – 9.73	0.11 – 0.25
8/3/2023	Station 1 – West	Downwind	5.67 – 55.0	0.10 – 0.30
	Station 2 – East	Downwind	0.0667 – 17.3	0.10 – 0.86
	Station 3 – Southeast	Upwind	5.53 – 29.7	0.10 – 0.23
	Station 4 – North	Downwind	9.0 – 20.7	0.10 – 0.25
8/4/2023	Station 1 – West	Downwind	20.6 – 46.1	0.10 – 0.56
	Station 2 – East	Downwind	28.6 – 60.4	0.10 – 0.50
	Station 3 – Southeast	Upwind	28.3 – 50.1	0.10 – 0.23
	Station 4 – North	Downwind	32.0 – 60.9	0.10 – 0.20

Notes:

1. PM<sub>10</sub> action level: Normal operations if PM<sub>10</sub> <100 ug/m<sup>3</sup>.
2. Mercury vapor action level: Normal operations if 15-minute average of MVA readings is <10 ug/m<sup>3</sup>.
3. See CAMP for further details on action levels.

### 3.3 Off-Site/Community Air Monitoring

Off-site/community air monitoring for mercury vapors was performed during specific phases of the RA to document that mercury vapor above action levels were not migrating beyond the site boundary. In accordance with the CAMP, each day that included a qualifying mercury vapor monitoring event, four 8-hour off-site air samples were collected for mercury vapor analysis (one upwind and three downwind). Off-site/community air monitoring for mercury vapors was not

required during the week of July 31, 2023, based on work area perimeter and site perimeter monitoring results and the tasks being performed on-site.

**Table 3-2  
Summary of Mercury Vapor Off-Site/Community Air Monitoring**

Date	Mercury Vapor Monitoring Event	Air Monitoring Station/Location	Upwind/ Downwind	Mercury Vapor 8-Hour Sample (ug/m <sup>3</sup> ) Action Level <4 ug/m <sup>3</sup>
7/26/2023	Main Sewer Removal	Station 1 – West	Downwind	ND
		Station 2 – East	Downwind	ND
		Station 3 – Southeast	Upwind	ND
		Station 4 – North	Downwind	ND

## 4 Monitoring Equipment

Table 4-1 presents the air monitoring devices used.

**Table 4-1  
Monitoring Equipment and Calibration**

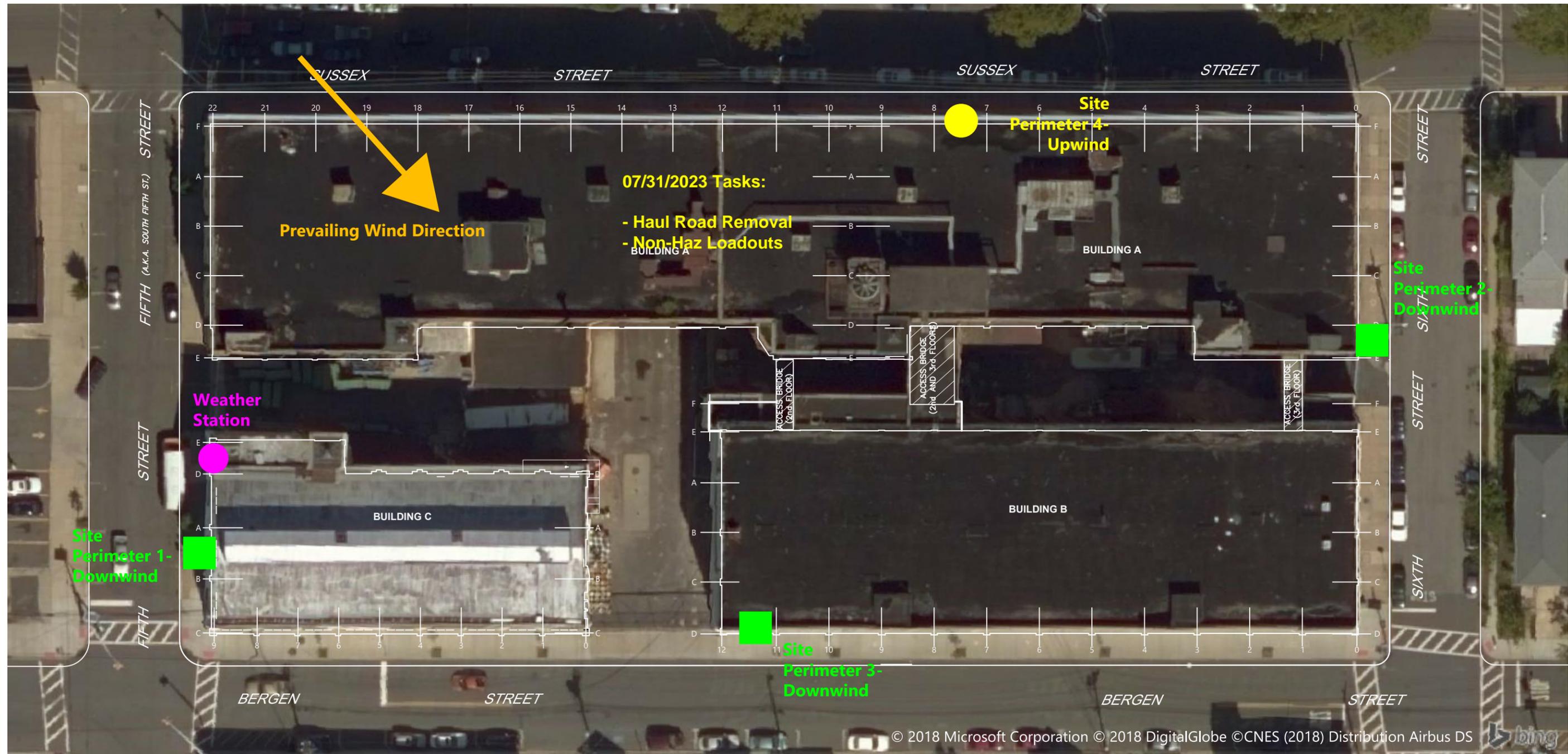
Parameter	Monitoring Equipment
Mercury Vapors – Real Time and Average Concentrations	<ul style="list-style-type: none"> <li>• Jerome Mercury Vapor Analyzer J405 – Arizona Instruments, LLC (work area monitoring, regenerated prior to daily use)</li> <li>• VM 3000 – Mercury Instruments (site perimeter stations, auto zeroed prior to daily use)</li> </ul>
Airborne Particulates	<ul style="list-style-type: none"> <li>• TSI Dusttrak Particulate Monitor (site perimeter stations, zeroed prior to daily use)</li> </ul>
Meteorological Monitoring	<ul style="list-style-type: none"> <li>• Vantage Pro 2 weather station</li> </ul>
Mercury Vapors – 8-hour Average Concentrations via NIOSH 6009	<ul style="list-style-type: none"> <li>• Sensidyne Gilian GilAir 3 air sampling pump (low flow module)</li> <li>• Mesa Labs Defender 500 series air sampling pump flow calibrator</li> <li>• Solid sorbent glass tubes containing Hopcalite</li> </ul>

## 5 Issues or Potential Modifications to the CAMP

None

# Figures

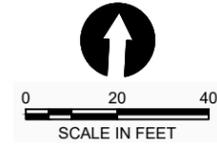
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**SOURCE:** Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED\_SITEMAP\_20101" provided by General Electric Company on March 3, 2016.  
**HORIZONTAL DATUM:** New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).  
**VERTICAL DATUM:** (None).

**LEGEND**  
 A,1 --- BUILDING COLUMN LINE

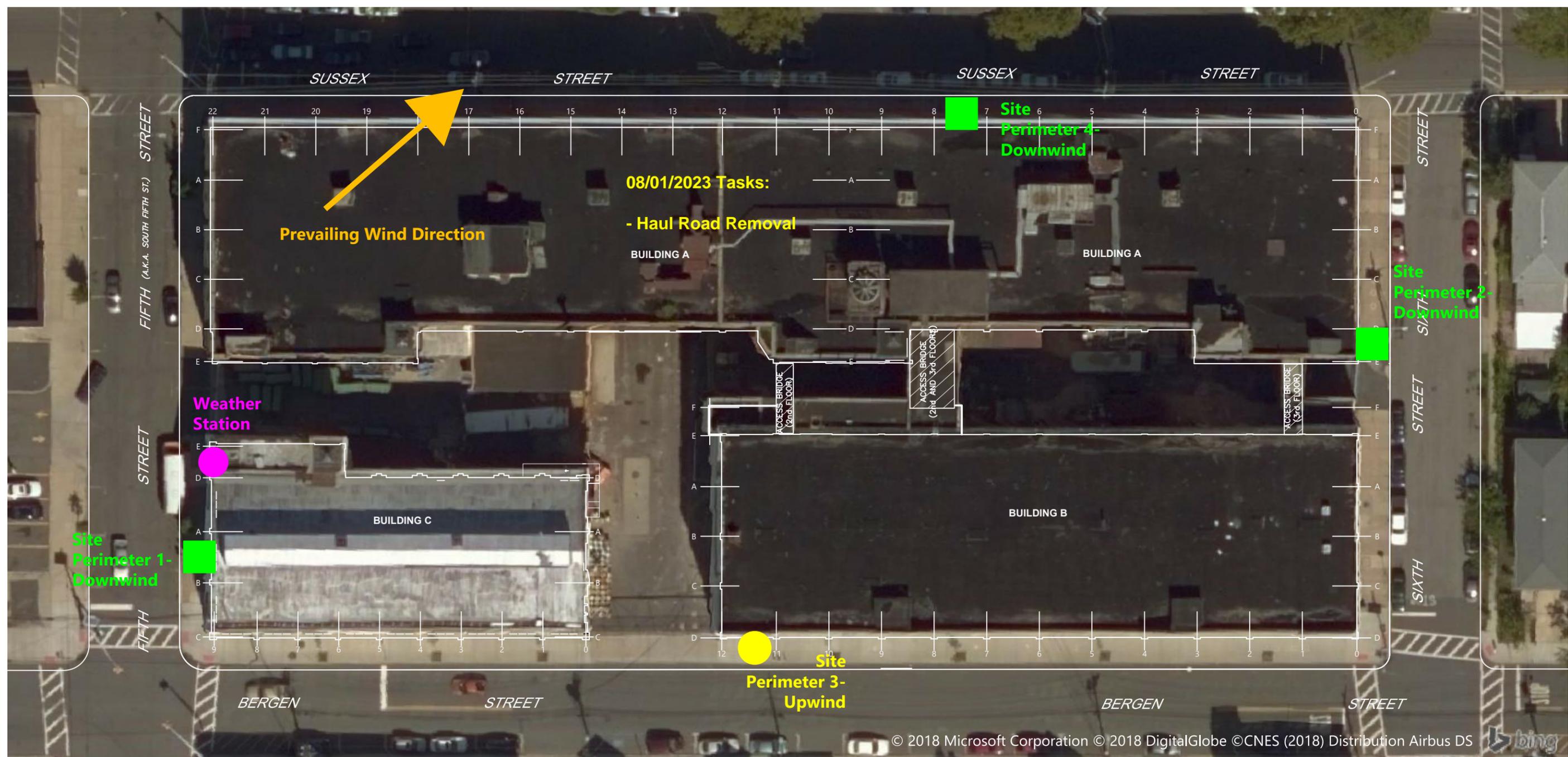
- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location



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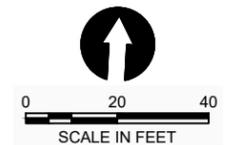
**Figure SP-1**  
**07/31/2023**  
**Air Monitoring Station Locations**  
 Vo Toys Removal Action  
 General Electric Company



**SOURCE:** Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED\_SITEMAP\_20101" provided by General Electric Company on March 3, 2016.  
**HORIZONTAL DATUM:** New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).  
**VERTICAL DATUM:** (None).

**LEGEND**  
 A,1 ——— BUILDING COLUMN LINE

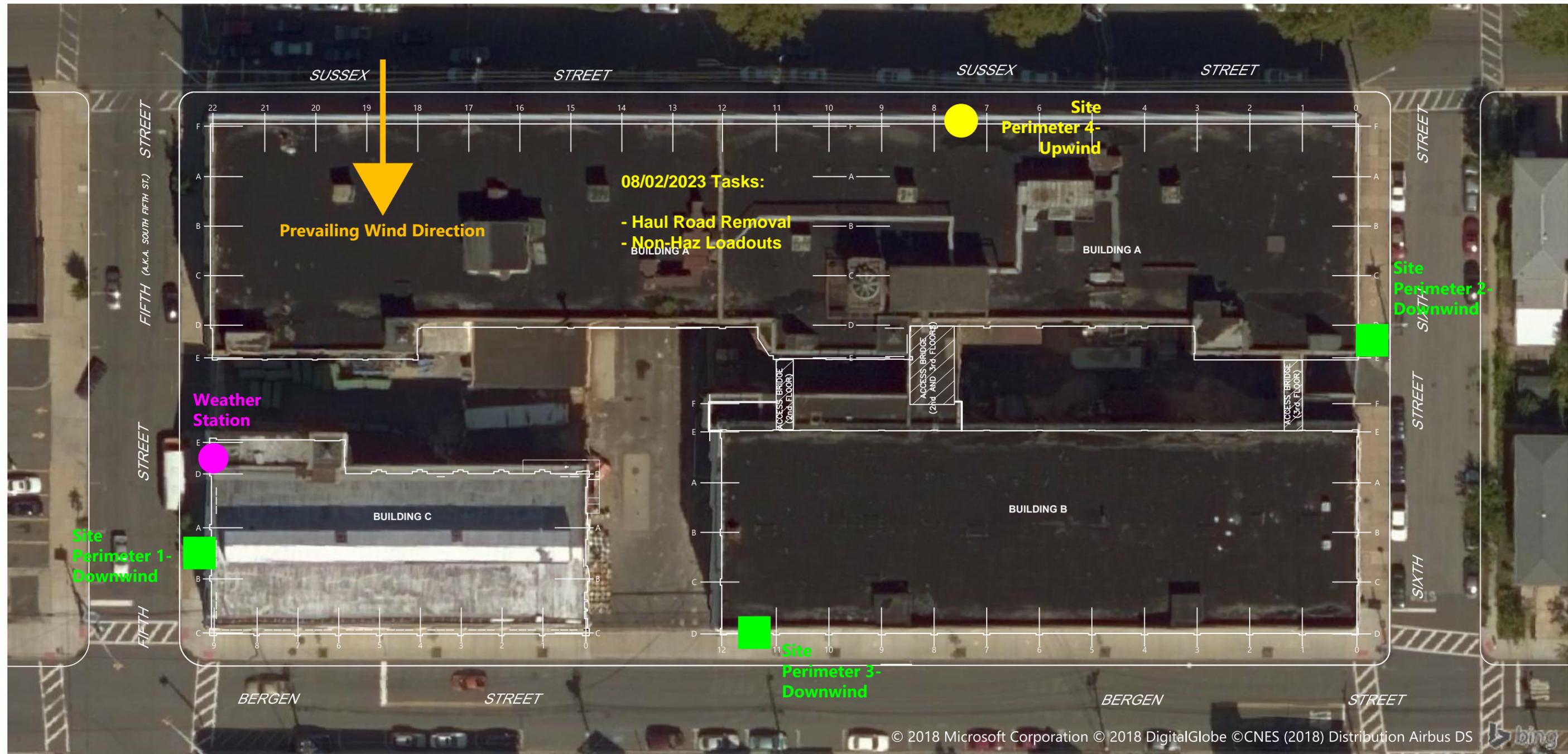
- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location
- ▲ Community Monitoring Location



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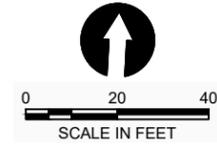
**Figure SP-2**  
**08/01/2023**  
**Air Monitoring Station Locations**  
 Vo Toys Removal Action  
 General Electric Company



**SOURCE:** Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED\_SITEMAP\_20101" provided by General Electric Company on March 3, 2016.  
**HORIZONTAL DATUM:** New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).  
**VERTICAL DATUM:** (None).

**LEGEND**  
 A,1 - - - - BUILDING COLUMN LINE

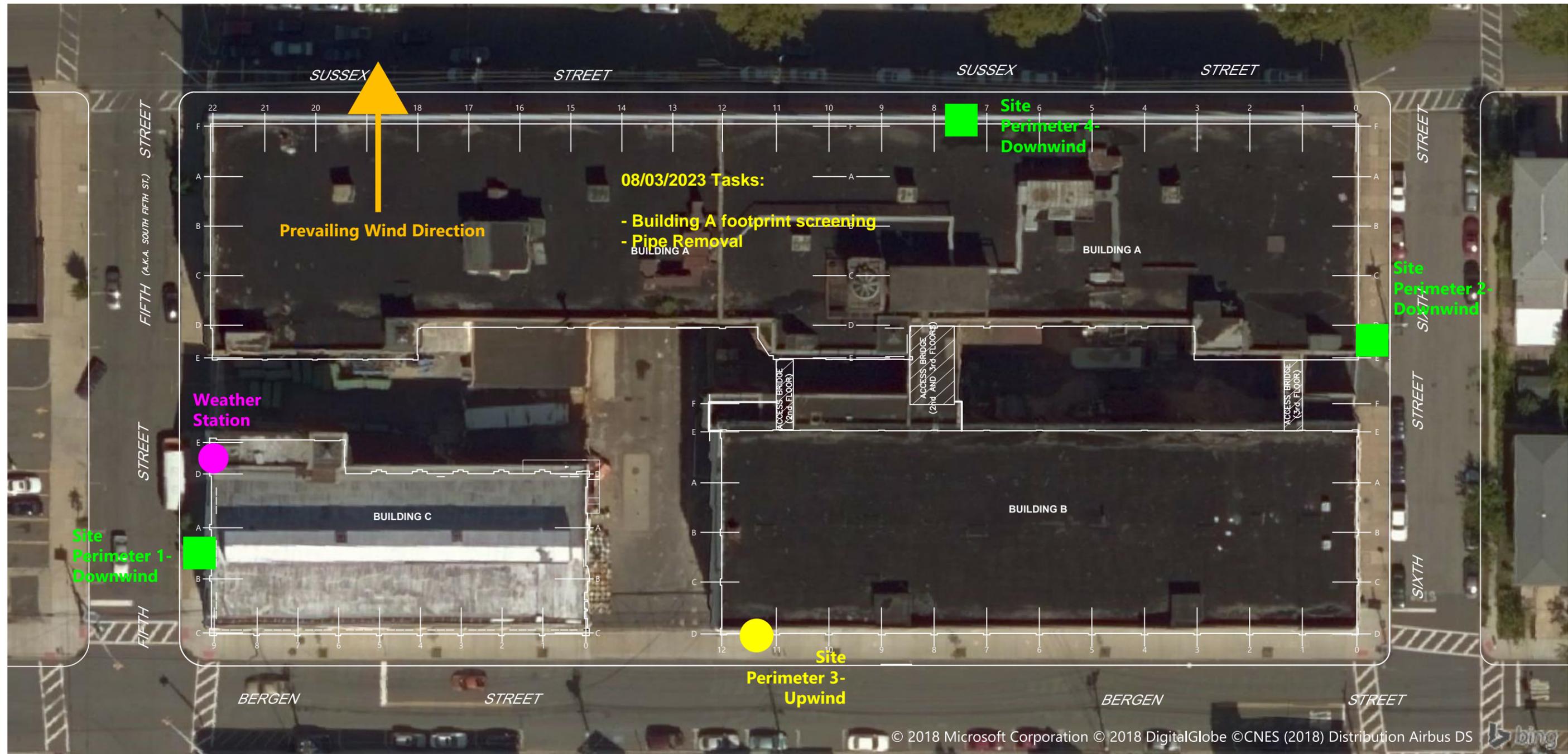
- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location



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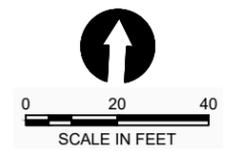
**Figure SP-3**  
**08/02/2023**  
**Air Monitoring Station Locations**  
 Vo Toys Removal Action  
 General Electric Company



**SOURCE:** Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED\_SITEMAP\_20101" provided by General Electric Company on March 3, 2016.  
**HORIZONTAL DATUM:** New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).  
**VERTICAL DATUM:** (None).

**LEGEND**  
 A,1 --- BUILDING COLUMN LINE

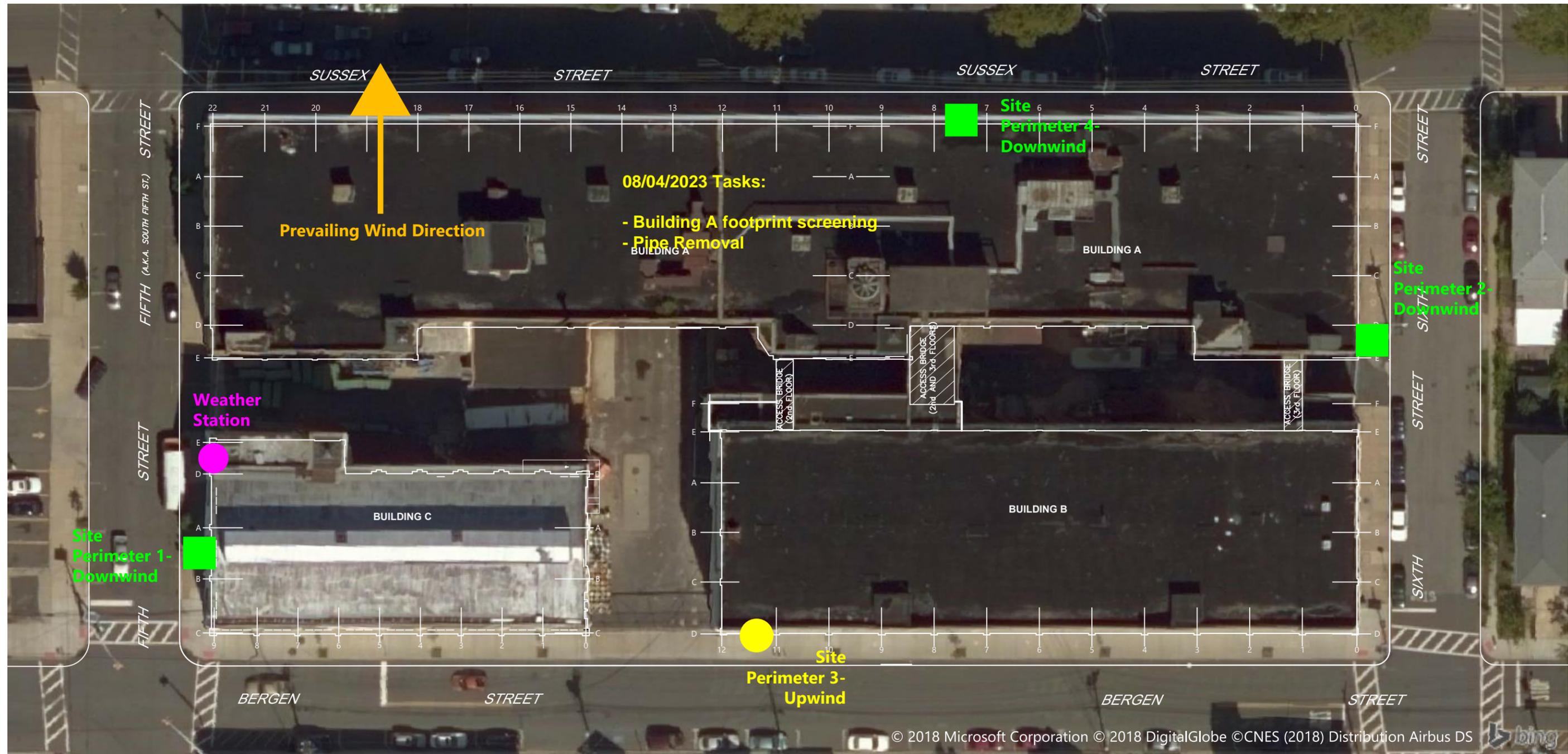
- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location



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**Figure SP-4**  
**08/03/2023**  
**Air Monitoring Station Locations**  
 Vo Toys Removal Action  
 General Electric Company



**SOURCE:** Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED\_SITEMAP\_20101" provided by General Electric Company on March 3, 2016.  
**HORIZONTAL DATUM:** New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).  
**VERTICAL DATUM:** (None).

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**Figure SP-5**  
**08/04/2023**  
**Air Monitoring Station Locations**

Vo Toys Removal Action  
 General Electric Company