

WEEKLY PROGRESS STATUS REPORT

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

CERCLA Docket No.: 02-2019-2028

Report No.: 121

Report Date: July 28, 2023

Reporting Period: July 24 to July 28, 2023

1 Weekly Progress Meeting – July 27, 2023

<i>Name</i>	Company	Title/Position	On-Site	Call-In
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

Hours Worked Summary:	
Building A East Footer and Soil Removal Project to Date as of July 28, 2023	
Anchor QEA	1407
WSP	1607
EWMI	4753.5

- Daily health and safety meetings were conducted each morning.
- The team discussed the ongoing high heat and humidity and stressed taking precautions to avoid heat stress (i.e., staying hydrated, taking breaks in shade).

3 Work Completed – July 24 to July 28, 2023

WSP/EWMI (RA Contractor)

- Continued the central sewer piping removal/assessment in the Building A/B courtyards.
- Backfilled and compacted excavation areas.
- Performed backfill compaction testing.
- 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.
- 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:
 - Two triaxles of nonhazardous concrete (40 tons)
 - 18 loads (432 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 (central portion of building). 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).

4 Anticipated Work for Upcoming Week

WSP/EWMI (RA Contractor)

- Removing/assessing the central sewer pipe in the Building A/B and A/C courtyards.
- 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.
- Excavating/assessing three interior column footers that were covered by the temporary haul road.
- 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 is removed.
- Assessing three interior column footers that were covered by the temporary haul road.
- Assessing pipes removed from the western portion of Building A.
- Preparing a summary of utility disconnection activities to date.

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.: 120

Report Date: July 28, 2023

Reporting Period: July 24 to July 28, 2023

1 Introduction

This report summarizes the Vo-Toys Removal Action (RA) air monitoring program conducted between July 24 to July 28, 2023 at the Vo-Toys site located at 400 South 5th Street, Harrison, New Jersey (the site). Air monitoring for particulates less than 10 microns in diameter (PM₁₀) and mercury vapor was conducted in accordance with the U.S. Environmental Protection Agency (USEPA)-approved Community Air Monitoring Plan (CAMP). PM₁₀ and mercury vapor results were compared with action levels presented in the CAMP.

Air monitoring during the week of July 24, 2023, included the following monitoring tasks:

- Meteorological monitoring
- Work area perimeter air monitoring
- Site perimeter air monitoring
- Off-site/community 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 24, 2023. The attached site air monitoring figures show the locations of the meteorological sensors.

Table 2-1
Meteorological Monitoring Summary

Date	Weather
July 24, 2023	Partly cloudy; High in the upper 80s °F; Winds: 5-10 mph S (Online)
July 25, 2023	Partly cloudy; Thunderstorms in the PM; High in the upper 80s °F; Winds: 5-10 mph SW (Online)
July 26, 2023	Sunny, High in the low 90s °F; Winds: 5-10 mph SW (Online)
July 27, 2023	Sunny, High in the low 90s °F; Winds: 5-10 mph SW (Online)
July 28, 2023	Sunny, High in the mid-90s °F; Winds: 5-10 mph SW (Online)

3 PM₁₀ 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 PM₁₀ and Mercury Vapor

Date	PM ₁₀ 15-Minute Average Range (ug/m ³) <i>Action Level <125 ug/m³</i>	Mercury Vapor 15-Minute Average Range (ug/m ³) <i>Action Level <10 ug/m³</i>
Building A East End Removals		
July 24, 2023	12.0 – 120.0 ⁵	0.0 – 0.0
July 25, 2023	10.0 – 23.0	0.0 – 0.0
July 26, 2023	28.0 – 66.0	0.0 – 0.0
July 27, 2023	28.0 – 40.0	0.0 – 0.0
July 28, 2023	19.0 – 41.0	0.0 – 0.0

Notes:

1. ug/m³: micrograms per cubic meter.
2. PM₁₀ action levels: Normal operations if 15-minute average of PM₁₀ readings is <125 ug/m³. If readings >125 ug/m³ additional actions would be required per CAMP.
3. Mercury vapor action level: Normal operations if mercury vapor for a single reading is <10 ug/m³.
4. See CAMP for further details on action levels.
5. Rental unit from Pine Environmental at Station 3 was reading high until the filter was cleaned and reset on 07/27/2023. Daily average for the stations were below 70 ug/m³.

3.2 Site Perimeter Air Monitoring Summary

Site perimeter monitoring was performed to document that particulates (PM₁₀) 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.

Due to filter issues with the instrument, exceedances to the PM₁₀ action level were observed on July 24, 25, 26, and 27, 2023 at Station 3 and during those days background PM₁₀ readings were in excess of 100 ug/m³. The filter was changed and the instrument was reset. PM₁₀ readings then returned to normal ranges.

All other PM₁₀ 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 PM₁₀ and Mercury Vapor Site Perimeter Air Monitoring

Date	Air Monitoring Station/Location	Upwind/Downwind	PM ₁₀ 15-Minute Average Range (ug/m ³) Action Level <100 ug/m ³	Mercury Vapor 15-Minute Average Range (ug/m ³) Action Level <10 ug/m ³
7/24/2023	Station 1 – West	Downwind	11.8 – 50.0	0.10 – 0.40
	Station 2 – East	Downwind	11.7 – 37.0	0.10 – 0.24
	Station 3 – Southeast	Upwind	29.2 – 142.0 ⁴	0.10 – 0.18
	Station 4 – North	Downwind	15.0 – 37.8	0.10 – 0.33
7/25/2023	Station 1 – West	Downwind	11.8 – 30.7	0.10 – 0.37
	Station 2 – East	Downwind	9.33 – 28.0	0.11 – 0.55
	Station 3 – Southeast	Upwind	21.1 – 104.0 ⁴	0.10 – 0.15
	Station 4 – North	Downwind	11.0 – 35.5	0.11 – 0.32
7/26/2023	Station 1 – West	Downwind	0.556 – 43.6	0.10 – 0.49
	Station 2 – East	Downwind	36.2 – 65.0	0.11 – 0.81
	Station 3 – Southeast	Upwind	10.0 – 113.0 ⁴	0.10 – 0.19
	Station 4 – North	Downwind	2.0 – 65.1	0.11 – 0.57
7/27/2023	Station 1 – West	Downwind	27.5 – 64.7	0.10 – 0.82
	Station 2 – East	Downwind	42.7 – 78.5	0.12 – 0.37
	Station 3 – Southeast	Upwind	37.3 – 115.0 ⁴	0.10 – 0.18
	Station 4 – North	Downwind	49.0 – 73.2	0.13 – 0.16
7/28/2023	Station 1 – West	Downwind	6.93 – 20.0	0.10 – 0.36
	Station 2 – East	Downwind	3.53 – 39.0	0.10 – 0.24
	Station 3 – Southeast	Upwind	12.3 – 52.0	0.10 – 0.14
	Station 4 – North	Downwind	5.0 – 29.1	0.12 – 0.33

Notes:

1. PM₁₀ action level: Normal operations if PM₁₀ <100 ug/m³.
2. Mercury vapor action level: Normal operations if 15-minute average of MVA readings is <10 ug/m³.
3. See CAMP for further details on action levels.

4. Rental unit from Pine Environmental at Station 3 was reading high until the filter was cleaned and reset on 07/27/2023. Daily average for the station were below 70 ug/m³.

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 performed on July 25, 2023. Figure SP-2 shows the off-site/community air sample locations for the days when sampling was performed.

A summary of off-site community air monitoring is presented in Table 3-2.

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 ³) Action Level <4 ug/m ³
7/13/2023	Courtyard Pipe Removals	Station 1 - West	Downwind	ND
		Station 2 - East	Downwind	ND
		Station 3 - South	Upwind	ND
		Station 4 - North	Downwind	ND
7/18/2023	Main Sewer Removal	Station 1 - West	Downwind	ND
		Station 2 - East	Downwind	ND
		Station 3 - South	Upwind	ND
		Station 4 - North	Downwind	ND
7/20/2023	Main Sewer Removal	Station 1 - West	Downwind	ND
		Station 2 - East	Downwind	ND
		Station 3 - South	Downwind	ND
		Station 4 - North	Upwind	ND
7/25/2023	Main Sewer Removal	Station 1 - West	Downwind	ND
		Station 2 - East	Downwind	ND
		Station 3 - South	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"> Jerome Mercury Vapor Analyzer J405 – Arizona Instruments, LLC (work area monitoring, regenerated prior to daily use) VM 3000 – Mercury Instruments (site perimeter stations, auto zeroed prior to daily use)
Airborne Particulates	<ul style="list-style-type: none"> TSI Dusttrak Particulate Monitor (site perimeter stations, zeroed prior to daily use)
Meteorological Monitoring	<ul style="list-style-type: none"> Vantage Pro 2 weather station
Mercury Vapors – 8-hour Average Concentrations via NIOSH 6009	<ul style="list-style-type: none"> Sensidyne Gilian GilAir 3 air sampling pump (low flow module) Mesa Labs Defender 500 series air sampling pump flow calibrator Solid sorbent glass tubes containing Hopcalite

5 Issues or Potential Modifications to the CAMP

None

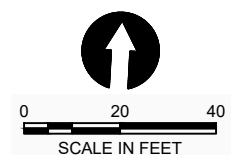
Figures



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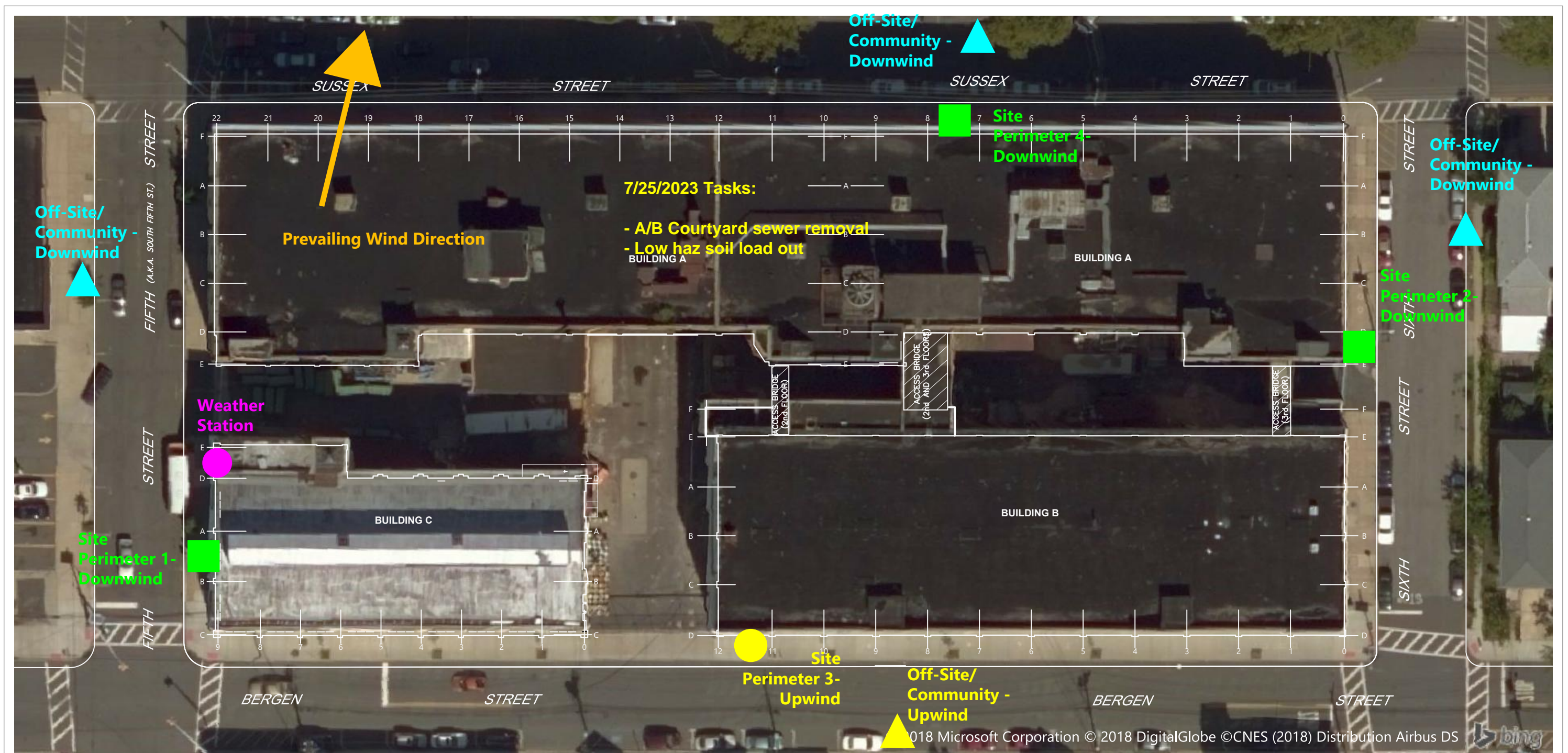
- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location



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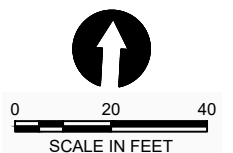
Figure SP-1
07/24/2023
Air Monitoring Station Locations
 Vo Toys Removal Action
 General Electric Company



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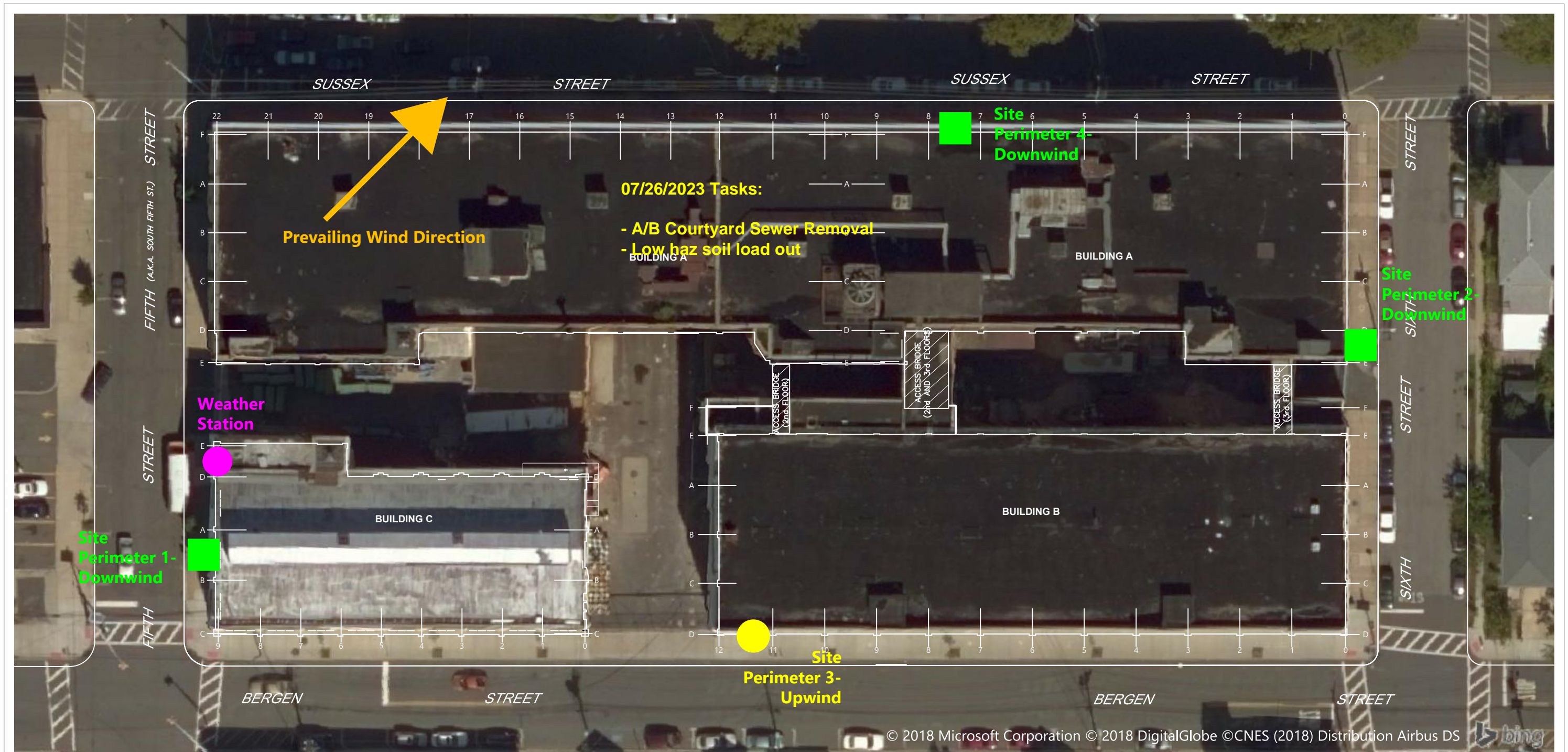
- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location
- ▲ Community Monitoring Location



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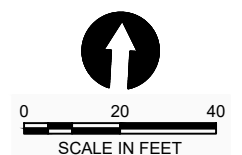
Figure SP-2
07/25/2023
Air Monitoring Station Locations
 Vo Toys Removal Action
 General Electric Company



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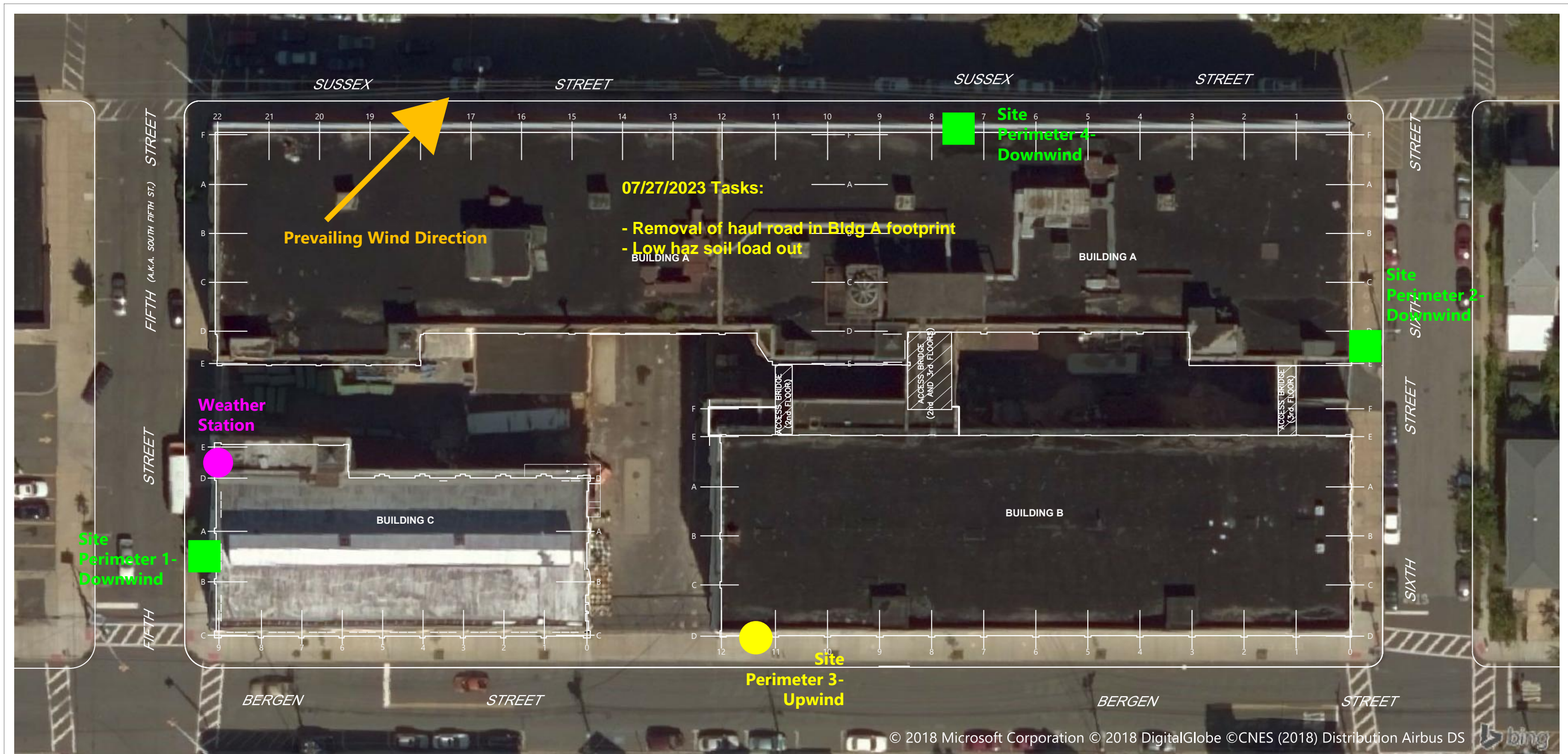
- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location



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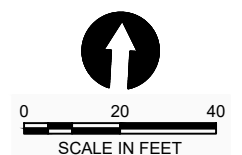
Figure SP-3
07/26/2023
Air Monitoring Station Locations
 Vo Toys Removal Action
 General Electric Company



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



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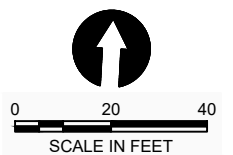
Figure SP-4
07/27/2023
Air Monitoring Station Locations
 Vo Toys Removal Action
 General Electric Company



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



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Figure SP-5
07/28/2023
Air Monitoring Station Locations

Vo Toys Removal Action
 General Electric Company