

Weekly Air Monitoring Report

September 30 – October 4, 2024

Historic Potteries Site RV2
Breunig Avenue Park
Trenton, Mercer County, New Jersey

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Report No: 2

1. Introduction

This report summarizes the Historic Potteries Removal Action Two Trenton Parks (RV2) air monitoring program conducted from September 30 to October 4, 2024, at the Sony Vereen Park located at 51 Filmore Street, Trenton, New Jersey (the site). Air monitoring for particulates less than 10 microns in diameter (PM10) was conducted in accordance with the U.S. Environmental Protection Agency (USEPA)-approved Community Air Monitoring Plan (CAMP). PM10 results were compared with action levels presented in the CAMP.

Air monitoring during the week of September 30, 2024, included the following monitoring tasks:

- Meteorological monitoring
- Site perimeter air monitoring
- Air Sampling

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 September 30, 2024. The attached site air monitoring figure shows the locations of the meteorological station.

Table 2-1: Meteorological Monitoring Summary

Date	Weather
9/30/2024	Cloudy skies. High 73°F. Winds ENE at 5-10 mph. (Online)
10/1/2024	Partly cloudy skies in morning, overcast afternoon. High 70°F. Winds E at 10-15 mph. (Online)
10/2/2024	Considerable cloudiness. High 69°F. Winds ENE at 5-10 mph. (Online)
10/3/2024	Cloudy early with peeks of sunshine late. High 76°F. Winds light and variable. (Online)

3. PM10 Monitoring

Air monitoring was performed using DustTrak® particulate monitors to ensure that site engineering controls for dust suppression are effective in protecting the health of all site personnel (workers, students, and faculty) and adjacent residences from fugitive dust which may potentially contain site-related contaminants. Four air monitoring stations were located around the site perimeter: one upwind and three downwind. Readings were recorded and maintained on site by START V.

A summary of work area perimeter air monitoring data is presented in the table 3-1 below.

Table 3-1 PM10 Perimeter Air Monitoring Summary

Date	Air Monitoring Station/Location	Upwind/ Downwind	PM ₁₀ 15-Minute Average Range (µg/m ³) <i>Action Level <150 µg/m³</i>
9/30/2024	Station ASL01 – South	Downwind	0.98 – 25.2
	Station ASL02 – South-Southeast	Upwind	10.8 – 36.5
10/1/2024	Station ASL02 – South	Downwind	6.0 – 17.1
	Station ASL03 – East	Upwind	7.3 – 16.3
	Station ASL04 – North	Downwind	6.3 – 68.3
	Station ASL05 – West	Downwind	5.0 – 18.3
10/2/2024	Station ASL02 – South	Downwind	6.9 – 75.1
	Station ASL03 – East	Upwind	10.1 – 29.0
	Station ASL04 – North	Downwind	7.5 – 14.8
	Station ASL05 – West	Downwind	9.0 – 43.7
10/3/2024	Station ASL02 – South	Downwind	12.8 – 31.4
	Station ASL03 – East	Upwind	9.7 – 56.8
	Station ASL04 – North	Downwind	12.0 – 28.6
	Station ASL05 – West	Downwind	14.8 – 55.8

Notes:

1. µg/m³: micrograms per cubic meter
2. See CAMP for further details on action levels.

4. Air Sampling

Air sampling for lead was conducted at each station during ground intrusive activities at the direction of the EPA On-Scene Coordinator (OSC). Air sample locations were co-located with air monitoring locations.

A summary of air samples collected is presented in table 4-1 below.

Table 4-1: Air Samples Summary

Date	Sample Name	Sample Location	Analyses
9/30/2024	HP001-P141-ASL01-240930-01	ASL01	Lead NIOSH 7307M
	HP001-P141-ASL02-240930-01	ASL02	Lead NIOSH 7307M
	FB-240930	NA	Lead NIOSH 7307M
10/1/2024	HP001-P141-ASL02-241001-01	ASL02	Lead NIOSH 7307M
	HP001-P141-ASL03-241001-01	ASL03	Lead NIOSH 7307M
	HP001-P141-ASL04-241001-01	ASL04	Lead NIOSH 7307M
	HP001-P141-ASL05-241001-01	ASL05	Lead NIOSH 7307M
	FB-241001	NA	Lead NIOSH 7307M
10/2/2024	HP001-P141-ASL02-241002-01	ASL02	Lead NIOSH 7307M
	HP001-P141-ASL03-241002-01	ASL03	Lead NIOSH 7307M
	HP001-P141-ASL04-241002-01	ASL04	Lead NIOSH 7307M
	HP001-P141-ASL05-241002-01	ASL05	Lead NIOSH 7307M
	FB-241002	NA	Lead NIOSH 7307M
10/3/2024	HP001-P141-ASL02-241003-01	ASL02	Lead NIOSH 7307M
	HP001-P141-ASL03-241003-01	ASL03	Lead NIOSH 7307M
	HP001-P141-ASL04-241003-01	ASL04	Lead NIOSH 7307M
	HP001-P141-ASL05-241003-01	ASL05	Lead NIOSH 7307M
	FB-241003	NA	Lead NIOSH 7307M

5. Issues or Potential Modifications to the CAMP

On 10/3/2024, the Gil Air pump at ASL04 was found to have stopped running at an unknown time during the day. This interruption was not identified until the time of sample collection. As a result, the sample volume for sample HP001-P141-ASL04-241003-01 may not accurately represent the entire sampling period for that day.

Figure 1: 9/30/2024 Air Monitoring/Sampling Locations and Prevailing Wind Direction:



Figure 2: 10/1/2024 Air Monitoring/Sampling Locations and Prevailing Wind Direction:



Figure 3: 10/2/2024 Air Monitoring/Sampling Locations and Prevailing Wind Direction



Figure 4: 10/3/2024 Air Monitoring/Sampling Locations and Prevailing Wind Direction



Table 2: Air Analytical Results Summary - Lead
Historic Potteries Site
Trenton, Mercer County, New Jersey
HP002-P021
September 30 through October 3, 2024

START V Sample Number	OSHA Action Level	HP002-P021-ASL01-240930-01	HP002-P021-ASL02-240930-01	FB-240930	HP002-P021-ASL02-241001-01	HP002-P021-ASL03-241001-01
Sample Location		HP002-P021-ASL01	HP002-P021-ASL02	Not Applicable	HP002-P021-ASL02	HP002-P021-ASL03
Sample Stop Date		9/30/2024	9/30/2024	9/23/2024	10/1/2024	10/1/2024
Sample Matrix		Air	Air	Air	Air	Air
Sample Type		Field Sample	Field Sample	Field Blank	Field Sample	Field Sample
Lead						
Lead (ug/m ³)*	30.0	ND	ND	ND	ND	ND

START V Sample Number	OSHA Action Level	HP002-P021-ASL04-241001-01	HP002-P021-ASL05-241001-01	FB-241001	HP002-P021-ASL02-241002-01	HP002-P021-ASL03-241002-01
Sample Location		HP002-P021-ASL04	HP002-P021-ASL05	Not Applicable	HP002-P021-ASL02	HP002-P021-ASL03
Sample Stop Date		10/1/2024	10/1/2024	10/1/2024	10/2/2024	10/2/2024
Sample Matrix		Air	Air	Air	Air	Air
Sample Type		Field Sample	Field Sample	Field Blank	Field Sample	Field Sample
Lead						
Lead (ug/m ³)*	30.0	ND	ND	ND	ND	ND

START V Sample Number	OSHA Action Level	HP002-P021-ASL04-241002-01	HP002-P021-ASL05-241002-01	FB-241002	HP002-P021-ASL02-241003-01	HP002-P021-ASL03-241003-01
Sample Location		HP002-P021-ASL04	HP002-P021-ASL05	Not Applicable	HP002-P021-ASL02	HP002-P021-ASL03
Sample Stop Date		10/2/2024	10/2/2024	10/2/2024	10/3/2024	10/3/2024
Sample Matrix		Air	Air	Air	Air	Air
Sample Type		Field Sample	Field Sample	Field Blank	Field Sample	Field Sample
Lead						
Lead (ug/m ³)*	30.0	ND	ND	ND	ND	ND

START V Sample Number	OSHA Action Level	HP002-P021-ASL04-241003-01	HP002-P021-ASL05-241003-01	FB-241003
Sample Location		HP002-P021-ASL04	HP002-P021-ASL05	Not Applicable
Sample Stop Date		10/3/2024	10/3/2024	10/3/2024
Sample Matrix		Air	Air	Air
Sample Type		Field Sample	Field Sample	Field Blank
Lead				
Lead (ug/m ³)*	30.0	ND	ND	ND

Notes:

START V - Superfund Technical Assessment & Response Team V

OSHA - Occupational Safety and Health Administration

ug/m³ - micrograms per cubic meter

* - Field blank and lot blank results are expressed in micrograms per filter

ND - Analyte was not detected at or above the detection limit