

Gowanus Canal

Perimeter Wall Installation: Air Monitoring and Sampling

Note: Data being discussed was collected by NYC under EPA oversight

Air Monitoring (CAMP)

Air Sampling



On-site/Perimeter

- Real-time monitoring for total VOCs and PM10 collected during working hours
- Any exceedance of alert/alarm values
 - immediate investigation was undertaken to determine the source
 - appropriate measures to address the source

Community

- 24-hour air samples collected near the tank site, DEC sites, and background locations using summa canisters
- Analyzed for full volatile organic list
- Focused on primary coal tar compounds: BTEX (benzene, toluene, ethylbenzene and xylene) and naphthalene
- Five samples from June 27 through July 23 at each location

Comparison Criteria: Air Monitoring

- ► Total VOCs 1 ppm (0.5 - 0.75 ppm alert, >1 ppm action)
- PM10 150 ug/m³
 (100 150 ug/m³ alert, >150 ug/m³ action*)



Air Monitoring Results:

- Between October 2023 and May 2024
 - ▶ 3 PM10 alerts
 - ▶ 18 TVOC alerts
- Most related to:
 - Filling gas generators
 - Vehicle emissions
 - Filling the cement silos
 - Welding activities
- All events were short duration and addressed to quickly reduce/stop emissions



Comparison Criteria: Air Sampling

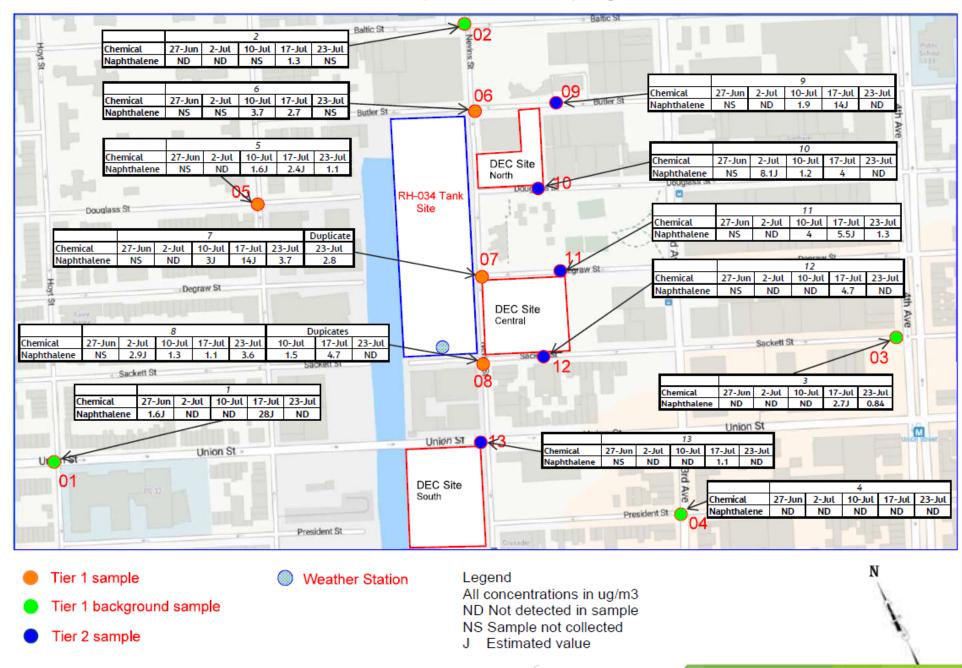
- Subchronic inhalation reference concentration (RfC)
 - an estimate of the daily inhalation exposure to a chemical that is unlikely to cause noncancer health effects during a person's lifetime (assumed to be 70 years)
 - Adjusted based on a maximum exposure duration of 7 years
 - Used at other coal tar sites in R5
 - Previous and forthcoming work combined will take far less time to complete
- Napthalene: 30 ug/m³



DRAFT

Pending additional data quality review

RH34 Tank Construction - Ambient Air Naphthalene Sampling Results



Air Sampling Results - Community

- Background sample 1 adjacent to PS-32
 - Only 1 anomaly
 - Subchronic health-protective level takes sensitive populations like school children and those with asthma into consideration
 - Data quality re-check
 - Canister pressure issue
 - ▶ 63/76 analytes rejected for this sample
 - "...it is not possible to determine whether the sample in the container was representative of the site location. Sample detections should be used with caution."
- All naphthalene data
 - Looking into field logs and wind directions
 - Possible off-site sources of naphthalene odors:
 - Road paving
 - Vehicle exhaust
- Based on the current air sample data, we do not believe the work conducted at the site to date resulted in unacceptable risk to exposed populations.