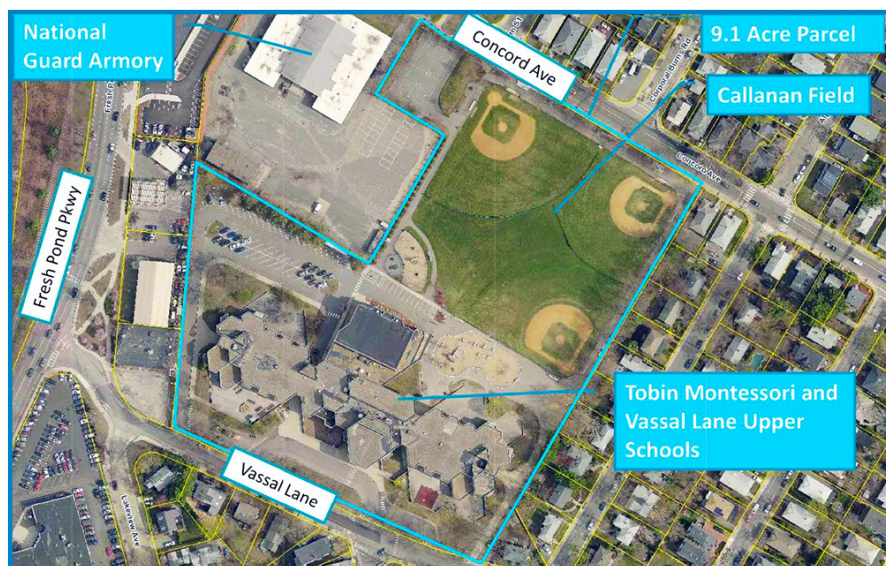


Tobin Montessori and Vassal Lane Upper Schools Air Monitoring Fact Sheet

This fact sheet presents a summary of the air monitoring that will be performed to be protective of the surrounding community.

What is the Tobin Montessori & Vassal Lane Upper Schools (TMVL) project?

This project will provide new facilities for the Tobin Montessori School, Vassal Lane Upper School, Special Start and Department of Human Services Programs preschool and after school programs. In addition, the project will help mitigate street flooding in the neighborhood with the construction of a 1.25 million gallon underground storm water tank on-site. The project also includes renovation of the open space area around the schools.



Why are we conducting air monitoring?

Based on the site history, the potential source of environmental contamination on the property is historic landfilled waste. The area was once used for clay mining, and after mining activities ceased the clay pit was filled with municipal waste from 1930s through the early 1950s, prior to development of the current school and recreational field.

The main contaminants of concern at the site are lead and polyaromatic hydrocarbons (PAHs). While these contaminants are not volatile they could get caught up in dust particles. Therefore, levels of dust will be monitored based on the concentrations of lead and PAHs found at the site. Landfill gases have also been detected in the subsurface at the site. These gases will be included

in the perimeter monitoring. While VOCs have not been detected extensively at the site, VOCs will also be monitored to limit any potential off-site migration of these parameters.

What: Perimeter air monitoring during construction for the surrounding community. CDM Smith, on behalf of the City, is preparing an Air Monitoring Plan that will be implemented for the TMVL Construction Project. The monitoring is to identify the potential migration of emissions from the site, so that measures can be taken to limit them via mitigation measures or modifications to site work.

Where: TMVL Construction Project Site, 197 Vassal Lane, Cambridge, Massachusetts.

When: During excavation and soil handling activities associated with construction at the site.

Why: To monitor nuisance and environmental air emissions from the TMVL construction project. Emissions could include dust, volatile organic compounds (VOCs), and landfill gases (e.g. methane, hydrogen sulfide). In addition, odors will be monitored and mitigated to the extent practicable.



What is included in the TMVL Air Monitoring Plan?

How and where will these be monitored?

- Air monitoring stations will be placed along the perimeter of the construction work areas and will record the parameters listed in the sidebar. Action levels will be set to be protective of the surrounding community.
- The air monitoring stations will record and log readings for the monitored parameters. The City will maintain the results from the air monitoring stations.
- Several monitoring stations will be located around the perimeter upwind and downwind of the site, distributed along the perimeter as required based on the site activity.
- The specific number and location of the stations will be dependent on the location and type of work being conducted. The air monitoring plan will progress and evolve as the project work does.

What will be done with the results?

- Each monitored parameter will have a corresponding action limit which is set to be protective of the surrounding community. If monitoring results are recorded at or above these levels, CDM Smith, the City of Cambridge, and W.T. Rich (the project contractor) will take actions to mitigate the constituent of concern.
- Response actions may include implementing site controls for dust mitigation, odor control measures, or other on site response actions to reduce the concentrations of monitored parameters prior to reaching the perimeter air monitoring stations.



What will be monitored?

- Dust
- Methane (CH₄)
- Hydrogen Sulfide (H₂S)
- Volatile organic compounds (VOCs)
- Odor



Typical Air Monitoring Station

For additional information –

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