

Town of Arlington Department of Public Works, Redevelopment Project
51 Grove St. Arlington, MA

Hazardous Material Management Plan

Executive Summary to the Plan as it relates to chemical hazards and mitigation

Commodore Builders engaged Cashin Associates, an Industrial Hygienist. Cashin has completed and delivered a Hazardous Materials Health and Safety Plan. This is attached for reference.

The plan discusses a wide range of hazards and applicable recommendations and procedures to ensure a safe environment for DPW employees, neighbors and the construction team.

In addition to the typical hazards inherent to construction activity such as excavation, utility installation and working in confined spaces. The plan addresses chemical hazards and the appropriate safety measures including a monitoring program for air borne contaminants during the excavation and backfilling operations.

For reference, section 2.2 (Hazard assessment) subsection 2.2.2 (Chemical hazards) specifically discusses the types of chemicals that may be encountered. Section 7.0 (Exposure Monitoring/Air Sampling Program) discusses Mitigation measures that include a real time monitoring program to measure levels of contaminants that may become air borne. Subsection 7.4 (Documenting Remedial Activity Air Quality Conditions) discusses the monitoring and measuring against baseline levels.

Cashin was asked to provide a more detailed description of the monitoring system. They will implement the following to comply with the perimeter air monitoring requirements.

- Four (4) perimeter air monitoring stations will be setup to measure PM10 particulate concentrations.
 - The stations will be within an environmentally protective enclosure to operate 24 hours a day, seven days per week.
 - They will be powered by battery and have solar panels to provide battery recharging.
 - The instrument we will be using to measure dust concentrations will be a TSI, Inc. Dust Trak II.
- Instruments will stream data continually to a cloud server using a cellular data network.
 - Login access to the server can be provided to key personnel. On the login dashboard they will be able to see a live feed from each instrument.
 - Text or email alerts notifying people of an exceedance can be setup for key personnel.

- Daily Reports
 - On a daily basis provide a summary report for the previous 24-hour period.
 - Friday, Saturday, and Sunday reports will be sent on Monday.
- Maintenance
 - On site staff will be checking these monitoring stations daily to check the stations and perform calibration checks, as needed.

Throughout the excavation process the site contractor will take necessary measures to control dust and airborne debris in conjunction with monitoring. It is expected that dust control will in fact minimize risks.

In the event monitoring results include positive readings the contractor will likely increase dust control measures with the use of misting equipment and/or foam agents. The contractor as part of their dust and odor control plan have suggested the use of a product manufactured by Rusmar.