



Mitigation measures – Toronto Maintenance Centre (TMC) Upgrades

VIA RAIL'S COMMITMENT TO THE MITIGATION OF THE IMPACT OF THE WORK

The quality of life of our neighbours and residents in the Etobicoke-Lakeshore borough is important to VIA Rail and the construction team. As a result, several mitigation measures have been implemented to limit the disruptions caused by the upcoming work.

MITIGATION MEASURES

1. Noise & Vibration Control Plan & Activities

HGC Engineering has been retained as the Noise and Vibration professional experts and professional monitors have been installed to monitor noise and vibrations for short-term baseline measurements and longer-term periods when heavy construction is occurring in the vicinity. Our neighbourhood partners, DCL Corporation (Canada-Technical Center Building) and Northwood Collection Inc./Images 2000 Inc., have offered us their support in the use of their buildings to house the instrumentation.


The Noise and Vibration Control techniques consist of automated noise and vibration monitors that can upload data to an internet-based site and provide e-mail alerts to VIA Rail and Buttcon Limited should noise and vibration impacts exceeding the performance limits be recorded.

The environment noise and vibration are being managed to comply with environmental obligations and includes the following assessments and reports that are being reviewed by the project team:

- Noise and Vibration Assessments;
- Noise and Vibration Control Plans prior to major construction activities;
- Noise and Vibration Construction Monitoring Program during construction activities.

love the way™





The Noise and Vibration Control assessments will provide recommendations and procedures to Buttcon Limited for mitigating the noise and vibration impacts to help ensure that the performance limits are met and where possible, cause minimal disruptions to the neighbourhood.

Should such alerts be issued, Buttcon Limited will be required to determine if the TMC construction activities were the cause, and if so, ensure both physical and administrative mitigation measures are put in place. Construction site hours are from 7 a.m. until 7 p.m. During all times, a site superintendent will be on site a part of the mitigation strategy.

2. Air Quality and Dust Control Management Plan & Activities

The Air Quality and Dust Control Management Plan includes a review of the planned construction work including methods of demolition, dust control procedures and air monitoring requirements at the property lines of the construction site.

The system will provide detailed self-reporting features that allow for the air quality data to be reviewed and which also allow for comparisons between sensors, parameters, and locations. The system is preconfigured to provide Weekly Air Quality and Dust Control Monitoring Reports.


The monitoring includes the identification of the main source(s) of fugitive dust emissions, potential causes for high dust emissions resulting from the source(s), preventative and control measures in place and/or to be developed, and an implementation schedule.

Ambient Air Quality Monitoring - A total of ten enLink Outdoor Air Quality (OAQ) particulate sensors will be deployed as part of the Air Quality Monitoring Program. Three particulate sensors will be mounted along the construction hoarding line on each of the north, south boundaries, two particulate sensors will be deployed on each of the east and west project boundaries. Where possible, the sensors will be deployed in a shaded area (north side of hoarding line). This deployment will allow coverage on all areas of the site through the construction project and alleviate the need for regular site visits to relocate equipment based on wind direction and construction activity.

The equipment uses a laser-based light scattering Monitoring Certification Scheme (MCERTS) certified particulate sensors to measure airborne particulate

love the way™





concentrations. The sensors will collect particulate measurements every five minutes through the course of the construction project. One LoRaWAN connected weather station will also be employed to allow for reporting of wind direction at the project site. LoRaWAN is a low-power, wide area networking protocol built on top of the LoRa radio modulation technique. It wirelessly connects devices to the internet and manages communication between end-node devices and network gateways. The Project Team will have 24/7 access to review air quality data and set alerts for exceedances.

3. Road traffic

Access to the Construction Site to minimize disruption to the community

- Buttcon Limited and their substrates are entering through Gate 2 off New Toronto Street during the construction hours on the site.
- A guard will be operating access for Gate 2 during the construction hours.
- Oversized deliveries will be accepted through Gate 1 off of Drummond Street and an additional guard will be stationed to facilitate the deliver of oversized items.
- Constant communications and the well-being and safety of the neighbourhood is of great importance to the team members working on the TMC modernization project.

4. Others

SAFETY FIRST - Active Operational Rail Yard

- The TMC Modernization project and its construction activities are taking place within an active rail maintenance yard, and adjacent to on-corridor traffic.
- The ability of the yard to maintain continuous and safe function is vital to the success of the project and represents an important challenge for the project.
- To address this challenge, the project team has gained an in-depth understanding of VIA Rail Operations and daily train movements, safety within the yard, and pinch points, and has developed their design and implementation strategies to suit operational activity.
- Safety first. This expert knowledge will assist with minimizing construction impacts, and ensuring mitigation strategies, within the rail yard, and for the safety of our neighbourhood.

love the way™

