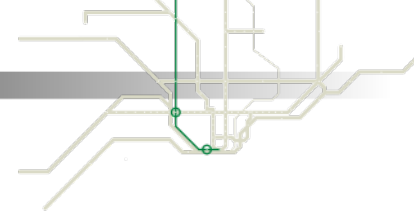


# Bloor-Lansdowne Station

## *Highlights of Environmental Studies.*

- The following pages provide an overview of key potential effects, mitigation measures and monitoring activities identified in the draft environmental studies carried out for Bloor-Lansdowne GO Station.
- Full details regarding potential effects, mitigation measures and monitoring activities are provided within the draft environmental studies, which are available for review at [www.metrolinx.com/newstations](http://www.metrolinx.com/newstations) .



# Bloor-Lansdowne Station

## *Highlights of Environmental Studies – Natural Environment.*

### **Potential Effects.**

- Removal of some trees will be required, primarily in Earls court Park.
- Potential impacts to bird, bat and reptile species at risk.
- Minimal effects to wildlife – no critical habitats; common, disturbance tolerant species.
- Potential disturbance/destruction of nests of migratory birds.

### **Mitigation Measures.**

- Implement an Erosion and Sediment Control(ESC) Plan.
- Schedule construction outside of the overall bird nesting season of April 1 to August 31; where not possible – nest surveys to be completed.
- Adhere to relevant provincial standards for clearing and grubbing, site preparation and tree removal.
- Compensate in accordance with Metrolinx Vegetation Compensation Protocol.
- Meet requirements of the Endangered Species Act, 2007.
- Complete Arborist Report in detailed design.
- Implement tree protection barriers.

### **Monitoring Activities.**

- Undertake on-site inspection to ensure the effectiveness of ESC measures and other mitigation measures.
- Conduct post-planting monitoring of restoration areas following installation.
- Undertake regular inspections of dust emissions to confirm dust control measures are adequate.
- Undertake regular monitoring to confirm that activities do not encroach into nesting areas or disturb active nesting sites.
- Undertake on-site inspection during construction to ensure that only specified trees are removed, tree protection is intact and there is no damage caused to remaining trees.
- Certified Arborist to inspect and assess trees regularly through construction and post construction.

# Bloor-Lansdowne Station

## *Highlights of Environmental Studies – Socio-Economic and Land Use.*

### **Potential Effects.**

- Temporary nuisance effects during construction (e.g., air quality, noise and vibration).
- Temporary road/lane closures and access restrictions during construction; delays for traffic, pedestrians and cyclists.
- Temporary use of/access to adjacent lands during construction.
- Temporary visual effects resulting from construction activities (e.g., stockpiling, storage/laydown sites).
- Property requirements.
- Improved multi-modal connectivity and public realm.

### **Mitigation Measures.**

- Notify property owners and local residents about construction activities.
- Develop and implement the following plans: Construction, Traffic Control and Management Plan, Air Quality Management Plan, Noise and Vibration Control Plan, Vegetation Compensation Protocol.
- Provide alternative access and signage.
- Confirm potential access/easement and property requirements and consult with property owners.
- Visual screening of construction site to extent possible.
- Develop aesthetically pleasing design in conjunction with City and Metrolinx Design Review Panel.
- Crime Prevention Through Environmental Design (CPTED) principles will be applied to minimize areas with reduced visibility.
- Opportunities for public realm improvements will be explored.

### **Monitoring Activities.**

- Monitor construction activities to confirm that all activities are conducted in accordance with mitigation plans and within specified construction zones.
- Monitor pedestrian and cyclist access areas within the construction work zone to ensure they remain clear of obstructions and barriers to accessibility.
- An existing complaints procedure is in place to address any concerns raised by neighbouring land owners, municipalities and/or the public during operation.

# Bloor-Lansdowne Station

## Highlights of Environmental Studies – Archaeology and Cultural Heritage.

### Potential Effects.

- There is potential to recover archaeological resources based on presence of historic transportation routes.
- Two properties have been identified as having potential cultural heritage value or interest (CHVI) and are anticipated to be directly impacted:
  - 226 St. Helens Avenue
  - Earls court Park
- No direct effects are anticipated to adjacent properties with potential CHVI. Adjacent properties may experience indirect effects as a result of construction activities.

### Mitigation Measures.

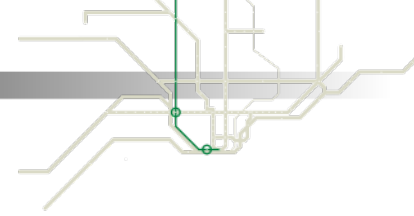
- Conduct Stage 1 Archaeological Assessment (AA) per recommendations of Stage 1 AA prior to construction.
- Cultural Heritage Evaluation Reports (CHERs) are underway for 226 St. Helens Avenue and Earls court Park. Should the CHERs conclude that the properties hold CHVI, Heritage Impact Assessments (HIAs) will be completed during detailed design which will identify mitigation measures to avoid or reduce potential effects to heritage attributes.
- A Cultural Heritage Assessment Report (CHAR) will be completed to provide a scoped evaluation of the adjacent properties' CHVI and identify potential effects and mitigation measures. The CHAR will be completed during detailed design.

### Monitoring Activities.

- Further AA may identify the need for monitoring during construction.
- The CHAR and HIAs (if required) may identify monitoring recommendations. These monitoring recommendations will be implemented.



- Proposed Project Footprint (approximate)
- Study Area
- Disturbed
- Stage 2 Required: Test Pit Survey
- Stage 2 Required: Deeply Buried Potential
- Cemetery Buffer



# Bloor-Lansdowne Station

## Highlights of Environmental Studies – Transportation.

### Potential Effects.

- Increased opportunities for walking and cycling access to the station through connection to Davenport Diamond Rail Grade Separation Greenway, future connection to EarlsCourt Park and the West Toronto Rail Path Extension.
- Provide a direct pedestrian link between regional transit at the GO Station and local transit at the Lansdowne TTC Station.
- The majority of turning movements in the study area will not be impacted by construction.

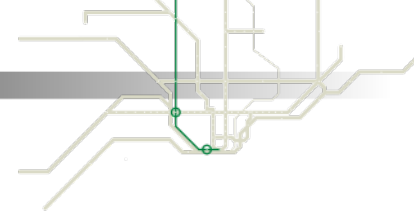
### Mitigation Measures.

- A Construction Traffic Management Plan will be developed prior to construction, which will include best practices for ensuring that pedestrian and cyclist access through the work zone is maintained.

### Monitoring Activities.

- Ridership at the station should be monitored to confirm mode share projections and ridership growth rates. Transit time along routes interfacing with the Bloor-Lansdowne GO Station should be monitored, and service schedules adjusted if necessary.
- Ridership on local transit routes in the study area should also be monitored, and service frequency increased to accommodate increased ridership if necessary.





# Bloor-Lansdowne Station

## Highlights of Environmental Studies – Noise and Vibration.

### Potential Effects.

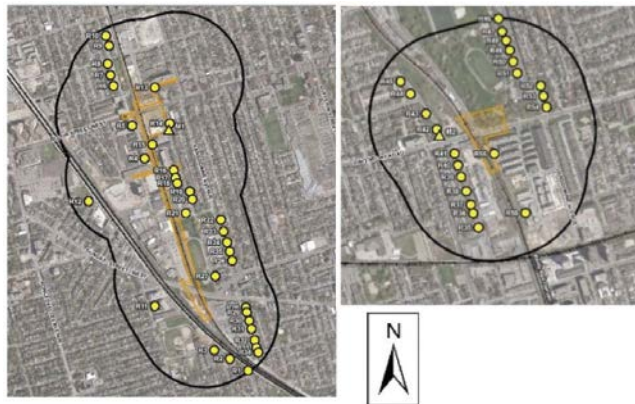
- Nighttime construction sound levels may exceed Federal Transit Administration (FTA) criterion at nearby residences.
- Presence of station is not expected to affect sound levels.
- No anticipated vibration effects.

### Mitigation Measures.

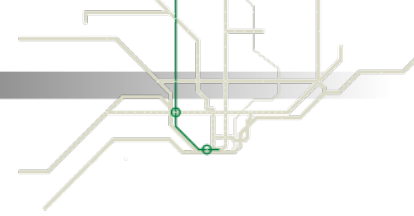
- A Noise and Vibration Control Plan will be developed prior to construction.
- A more detailed assessment of potential noise and vibration impacts will be developed as part of detailed design.
- Construction to be planned to minimize the number of nights where noisy nighttime construction activities may be required.
- Keep construction equipment in good repair.

### Monitoring Activities.

- Once a detailed construction vibration assessment has been completed, work that may exceed City of Toronto bylaw limits or that may cause structural damage should be monitored.
- Implement a complaints protocol for noise complaints received from the public during construction. A complaints procedure is in place to address any concerns raised by neighbouring land owners, the affected municipalities, or the public during operation.
- Monitoring equipment will be installed, as required, to measure and document noise and vibration levels at various points to provide empirical data for the assessment of complaints.







# Bloor-Lansdowne Station

## *Highlights of Environmental Studies – Air Quality.*

### **Potential Effects.**

- Emissions from engines of construction equipment, dust emissions from stockpiles, loading/unloading activities and transportation of soils during construction.

### **Mitigation Measures.**

- An Air Quality Management Plan will be developed and implemented to address items such as use of dust suppressant measures during construction (e.g., covering dump trucks, minimizing loading/unloading of soils and washing of construction equipment and vehicles).
- A more detailed assessment of potential air quality impacts will be developed as part of detailed design.

### **Monitoring Activities.**

- Monitor dust levels to assess the effectiveness of dust suppression measures, and adjust suppression measures as required. Continue monitoring throughout construction until activities are complete, exposed soils have been stabilized, and construction waste has been removed from the site.
- Establish a complaint response protocol for construction-related nuisance effects such as dust. A complaints procedure is in place to address any concerns raised by neighbouring land owners, municipalities, or the public-at-large during operation.