

# POWER South Nepean Backgrounder

August 2018

## Update on route and site identification

In 2017, Hydro Ottawa and Hydro One began a Class Environmental Assessment to plan for new electricity transmission facilities required to power ongoing growth in South Nepean. The proposed facilities would include a new Hydro Ottawa municipal

transformer station (MTS) and a new 230 kilovolt (kV) transmission line to connect the MTS to Hydro One's existing 230 kV transmission system at West Hunt Club Road. To achieve the connection line, Hydro One proposed to rebuild its existing single circuit 115 kV transmission line (3 wires) on the existing transmission corridor to a double circuit line (6 wires) with 230 kV capacity.

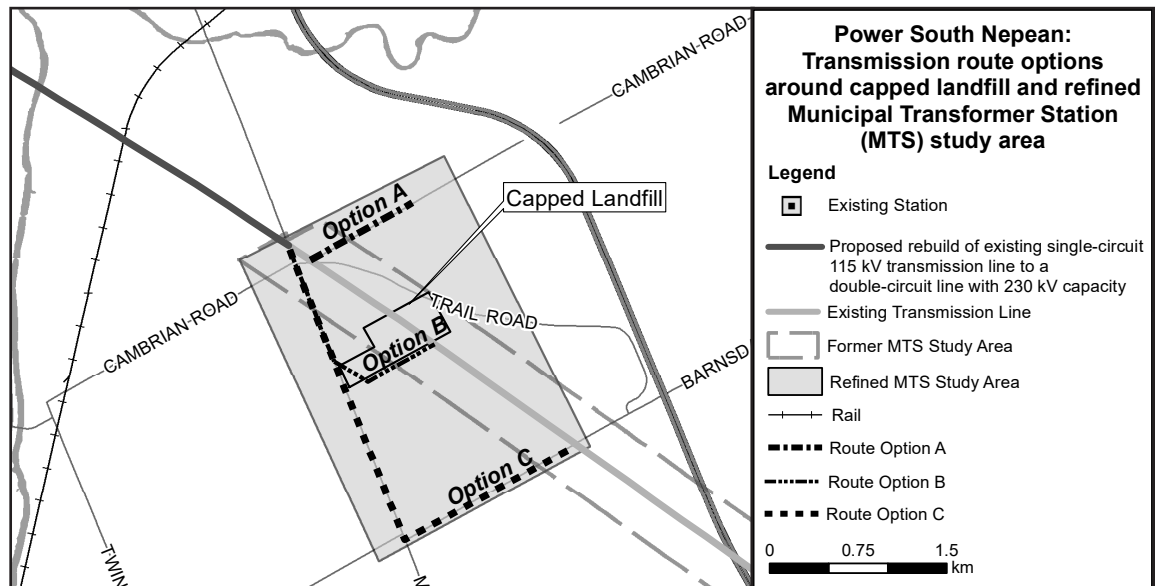
## Refined MTS study area

Hydro Ottawa has been investigating potential sites for a new MTS close to the areas slated for future development. The MTS has been refined slightly to focus on identifying a site in one of two general areas:

- 1) Along Cambrian Road, east of Moodie Drive and west of Hwy 416; or
- 2) Along Barnsdale Road near Hydro One's existing transmission line corridor.

## Alternative transmission line route options

Discussions with the City of Ottawa have revealed significant environmental and technical challenges associated with rebuilding the existing transmission line



through the capped Nepean landfill. To avoid the capped landfill, three route options for a new double circuit 230 kV transmission line (6 wires) on a new right-of-way are being considered, as described and shown on the map. All route options are conceptual at this time and contingent upon technical feasibility and constructability.

**Route Option A (MTS on Cambrian Road):** Located on the north side of Cambrian Road traveling east from the existing transmission right-of-way to connect the new station.

**Route Option B (MTS on Barnsdale Road):** Travelling south on Moodie Drive from the existing transmission right-of-way near Cambrian Road, and then turning eastward on City-owned property south of the capped landfill to rejoin the existing transmission right-of-way.

**Route Option C (MTS on Barnsdale Road):** Travelling south on Moodie Drive from the existing transmission right-of-way near Cambrian Road to Barnsdale Road, then turning eastward along Barnsdale Road to connect the new station.