

4. Project Consultation

Consultation is an important component of the EA process. An integrated consultation process ensures that First Nations and Métis communities, government agencies and officials, interest groups, affected property owners and the public are aware of the Project and have an opportunity to provide input through the planning process.

The consultation process for the Project included the following elements:

- Initial Notification and Final Notification of the Project
- Two Public Information Centres (PIC)
- Community Information Meeting
- Notification and consultation via public notices, letters, emails, telephone and meetings
- Project website
- Dedicated Project contact person
- Draft ESR Review Period

All input was addressed by the Project team and incorporated into the Project where appropriate.

A contact list of government agencies was developed for the Project, based on the MOE Government Review Team list. First Nations and Métis communities, government officials, as well as interest groups were also included on the Project contact list (**Appendix B1**).

The results of the consultation program are summarized in the sections below. Copies of the consultation program materials, such as public notices, notification letters and PIC displays are included in **Appendix B**. A copy of the Project consultation log is provided in **Appendix B7**.

4.1 Initial Notification

Initial notification for the Project was provided to First Nation and Métis communities on April 5, 2012 via email and letters. A meeting with the Municipality of Clarington officials

took place on April 13, 2012. The City of Oshawa officials were notified on May 3, 2012 by email. Government agencies and interest groups were notified on May 3, 2012 via email and letters. The area residents within approximately 2 km radius of the Project area were notified on May 3, 2012 with notification letters via hand delivery and courier.

Along with the initial Project notification letter, a Project Participation Form (PPF) was provided for all interested parties to specify their interest in, and to provide their initial comments on the Project. Copies of the notification letters and PPF are provided in **Appendix B2**.

A public notice was also published in local newspapers to announce the Project initiation and to invite interested public to attend the first PIC (see **Section 4.7.5**).

A Project website www.HydroOne.com/Projects/Clarington, a dedicated Project contact person, a toll-free telephone line and email were also established to provide Project information and updates.

Sections 4.2 to 4.7 describe the consultation program undertaken by Hydro One and provide the input received following the Initial Notification, the two PICs and the Community Information Meeting which was used in the development of the draft ESR.

Sections 4.10 and 4.11 summarize the comments received during the 30-day draft ESR review period and Part II Order requests, respectively.

4.2 First Nations and Métis Communities

Project notification was sent to the Ministry of Energy and Ministry of Aboriginal Affairs (MAA) on January 20, 2012 to obtain a list of potentially affected and interested First Nations and Métis communities. Hydro One provided a list of communities based on an internal assessment of Treaties and traditional land use to the Ministry of Energy to confirm which communities should be consulted. Hydro One received information back from the

Ministry of Energy on March 5, 2012 indicating that there is a “very low likelihood the Project will potentially affect any First Nation or Métis rights.”

MAA did not provide any further comments.

First Nations and Métis communities that were identified were initially contacted on April 5, 2012 of the Project and on May 3, 2012 were notified of PIC#1. The following communities were identified by Hydro One and will be kept informed throughout the Project:

- Alderville First Nation
- Chippewas of Georgina Island First Nation
- Chippewas of Rama First Nation
- Curve Lake First Nation
- Hiawatha First Nation
- Huronne Wendat
- Métis Nation of Ontario
- Mississaugas of Scugog Island First Nation
- Oshawa and Durham Region Métis Council

The following three communities responded to the initial notification:

- Alderville First Nation
- Mississaugas of Scugog Island First Nation
- Chippewas of Rama First Nation

The correspondence between Hydro One and the three communities is detailed in the following sections.

4.2.1 Alderville First Nation

Alderville First Nation on May 16, 2012 indicated that the Project, as per the Community’s Consultation Protocol, the Clarington TS is a level 3, “having minimal potential” to impact the Community’s First Nations’ rights. Alderville First Nation requested Hydro One to keep

the Community informed of any archaeological findings, burial sites or any environmental impacts and that they wished to be kept informed through all phases of the Project.

The Stage 2 Archaeological Assessment recommended a Stage 3 assessment on the potential site. Alderville First Nation was contacted on June 26, 2012 regarding the Stage 3 Archaeological investigation and provided an Aboriginal Liaison Monitor for the investigation. As indicated in **Section 3.2.5**, the Stage 3 Archaeological Assessment did not recommend further investigation because no archaeological or cultural heritage significance was identified. The First Nation was notified on July 27, 2012.

Alderville First Nation was notified on October 17, 2012 that no further assessment was required following completion of a Stage 2 Archaeological Assessment for the proposed west-side access road. Hydro One will continue to keep Alderville First Nation informed of any archaeological findings and the status of the Project.

Information panels displayed at PIC #1 (**Appendix B3**) and a copy of the Stage 3 Archaeological Assessment were provided. Hydro One has offered to meet with the Community since initial Project notification.

4.2.2 Mississaugas of Scugog Island First Nation

Mississaugas of Scugog Island First Nation on May 2, 2012 indicated that the Project is on First Nation Treaty land and the Community is interested in evaluating potential impacts to First Nation rights and interest.

The Stage 2 Archaeological Assessment recommended a Stage 3 assessment on the project area. Mississaugas of Scugog Island First Nation was contacted on June 26, 2012 regarding the Stage 3 Archaeological investigation and indicated they would like additional information regarding the Stage 3 Archaeological Assessment. A conference call was held between Hydro One and the Community to discuss the findings of the Stage 2 Archaeological Assessment the First Nation was notified that Alderville First Nation would be providing an Aboriginal Liaison Monitor for the assessment. Mississaugas of Scugog Island First Nation accepted

Alderville First Nation's Monitor to represent the Williams Treaty. As indicated in **Section 3.2.5**, the Stage 3 Archaeological Assessment did not recommended further investigation as there was no archaeological or cultural heritage significance identified. The First Nation was notified of the findings on July 27, 2012.

Mississaugas of Scugog Island First Nation was also notified on October 17, 2012 regarding the Stage 2 Archaeological Assessment for the proposed west-side access road. Hydro One will continue to keep Mississaugas of Scugog Island First Nation informed of any archaeological findings and the status of the Project.

Information panels displayed at PIC #1 (**Appendix B3**) and a copy of the Stage 3 Archaeological Assessment were provided. Hydro One has offered to meet with the Community since initial Project notification.

4.2.3 Chippewas of Rama First Nation

Chippewas of Rama First Nation on April 18, 2012 requested that the Barrister and Solicitor of the Williams Treaty First Nations receive all Project notifications.

The Stage 2 Archaeological Assessment recommended a Stage 3 assessment on the potential site. Chippewas of Rama First Nation and the Barrister and Solicitor of the Williams Treaty First Nations were contacted on June 26, 2012 regarding the Stage 3 Archaeological investigation. As noted, the Stage 3 Archaeological Assessment did not recommend further investigation. The First Nation and the Williams Treaty Barrister and Solicitor were notified of the findings on July 27, 2012.

Chippewas of Rama First Nation and the Barrister and Solicitor of the Williams Treaty First Nations were notified on October 17, 2012 regarding the Stage 2 Archaeological Assessment for the proposed access road. Hydro One will continue to keep the Chippewas of Rama First Nation and the Barrister and Solicitor of the Williams Treaty First Nations informed of any archaeological findings and the status of the Project.

Information panels displayed at PIC #1 were provided (**Appendix B3**). Hydro One has offered to meet with the Community since initial Project notification.

4.3 Federal Government Agencies

4.3.1 *Aboriginal Affairs and Northern Development Canada (AANDC)*

AANDC indicated that they wished to be kept on the Project mailing list for the duration of the Project.

Information panels displayed at the PIC #1 (see **Appendix B3**) were provided; no comments were received.

Invitation to PIC #2 was provided and a response was received from AANDC indicating that

“AANDC officials do not participate in environmental assessments that pertain to projects off-reserve, nor does the department track how other parties carry out their EA or consultation activities where no reserve lands or AANDC programs are involved. Therefore in future, please omit AANDC officials from your public information notification for projects that do not intersect with reserve lands or engage AANDC programs”.

Since the proposed project does not involve reserve lands or AANDC programs, AANDC has been removed from the contact list from this point onwards.

4.3.2 *Transport Canada (TC)*

TC indicated that they are responsible for the administration of the *Navigable Waters Protection Act* and *Railway Safety Act*. In order to determine lighting and marking requirements in accordance with the Canadian Aviation Regulations 621.19, Hydro One is required to complete an Aeronautical Obstruction Clearance Form. TC also suggested NAV Canada be contacted on potential effects to air navigation systems.

Hydro One confirmed that the proposed project will not affect navigable waters and railways. The new 230 kV and 500 kV line structures will not be taller than 90 m, therefore will not require lighting and marking. The current corridor runs east-west and there are no lighting and marking installed on the structures that are in the vicinity of the proposed site. Hydro One also indicated that it has been in contact with NAV Canada and will be submitting the Land Use submission form once the locations of the structures have been finalized.

Information panels displayed at the PIC #1 (see **Appendix B3**) were provided; no comments were received.

Invitation to PIC #2 was provided; no comments were received based on this PIC.

4.3.3 NAV Canada

NAV Canada provided information to Hydro One to submit a Land Use submission form along with the GPS locations of the structures in a spreadsheet. The NAV Canada Land Use File # 12-2154).

Hydro One indicated to NAV Canada that they will submit the requested Land Use submission form and the associated spreadsheet once the locations of the structures have been finalized.

Information panels displayed at the PIC #1 (see **Appendix B3**) were provided; no comments were received.

Invitation to PIC #2 was provided; no comments were received based on this PIC.

4.3.4 Greater Toronto Airport Authority (GTAA)

GTAA is interested in the potential effects of project alternatives on the future Pickering Airport design and operations including:

- Effects on potential energy supply (i.e., source, system capacity, availability)
- Potential effects on future air navigation, communication, and surveillance equipment and signals
- Potential implications with respect to compatibility with airport zoning requirements, flight operations, and takeoff and approach surfaces

GTAA also indicated that they would like to review design drawings of the transmission line structures, locations and ground elevations of the line structures, as well as the technical specifications of the transformer equipment to assess the electromagnetic effects.

Hydro One agreed to share the information with GTAA when it was available. Hydro One also provided information on Electric and Magnetic Fields (EMF) and indicated that “results from our preliminary EMF modeling indicated that at 100 metres above ground level (i.e., a mere 40 metres over the tower), the electric and magnetic fields have already mostly dissipated. At 200 metres above ground level, they would be practically undetectable.”

Information panels displayed at the PIC #1 (see **Appendix B3**) were provided; no comments were received.

Invitation to PIC #2 was provided; no comments were received based on this PIC.

4.4 Provincial Government and Agencies

4.4.1 Provincial Officials

The Member of Provincial Parliament’s (MPP) office was contacted on April 5, 2012 to provide Project contact person information. The office indicated that it will be in touch with Hydro One if a Project briefing is required.

A Hydro One representative met with the MPP, Mr. John O’Toole on May 23, 2012 to discuss Project. Mr. O’Toole was briefed on the need, the differences between the Project and the approved Enfield TS, and what the Project involved. Mr. O’Toole was also shown

the PIC #1 panels and the Project maps. A representative from Mr. O’Toole’s office attended PIC#1 on his behalf.

Mr. O’Toole presented a petition to the Legislative Assembly of Ontario on September 10, 2012 regarding the Project being built on the Greenbelt and Oak Ridges Moraine.

Mr. O’Toole was notified of the Community Information Meeting and participated at the event on September 11, 2012. He indicated he would raise his concerns to the Minister of Energy and would support his constituents.

Information panels displayed at the PIC #1 (**Appendix B3**), the Community Information Meeting Report (**Appendix B4**), a letter from the OPA to Hydro One indicating the need for the Project, and invitation to the PIC #2 were provided. No comments were received based on this PIC.

4.4.2 Ministry of the Environment

The MOE indicated, in a letter, a number of areas of interest with respect to the undertaking including the followings:

- Ecosystem protection and restoration
- Surface water
- Groundwater
- Air quality
- Dust and noise
- Servicing and facilities
- Contaminated soils
- Mitigation and monitoring
- Planning and policy
- Class EA process
- Aboriginal consultation

Hydro One confirmed that the Class EA process would address the identified areas of interest in the corresponding sections of the ESR:

- Ecosystem protection and restoration – **Sections 3 and 7**
- Surface water – **Sections 3 and 7**
- Groundwater – **Sections 3 and 7**
- Air quality – **Section 7**
- Dust and noise – **Section 7**
- Servicing and facilities – **Sections 1.4.2 and 4.5.3**
- Contaminated soils – **Section 7**
- Mitigation and monitoring – **Sections 7 and 8**
- Planning and policy – **Sections 3 and 5**
- Class EA process – **Section 2**
- Aboriginal consultation – **Section 4**

Information panels displayed at the PIC #1 (see **Appendix B3**) were provided; no comments were received.

A meeting with a representative of the MOE Central Regional Office was held on August 27, 2012 for Hydro One to provide an overview of the Project, update on the environmental inventory and findings, update on consultation activities and Project timeline. A follow up letter was sent to the MOE on October 3, 2012 to reaffirm Hydro One's position on the rationale for having only one viable site for the Project (i.e., no alternative sites) as well as provide the updated Project timeline including upcoming consultation activities.

A notification email as well as a follow up email on the Community Information Meeting was sent (see **Section 4.7.6** for details of the Community Information Meeting). A summary report on Community Information Meeting held on September 11, 2012 (see **Appendix B4**) was provided to the MOE. No further comments were received.

An invitation to PIC #2 was provided; no comments were received based on this PIC.

4.4.3 Ministry of Natural Resources

MNR requested submission of an Information Gathering Form (IGF) for activities that may affect species or habitat protected under the ESA. It was recognized by MNR that the completion of the IGF may take multiple sessions.

On June 13, 2012, Hydro One submitted the initial IGF which outlined studies that had been completed and those that were in the process of completion. Shortly after the initial IGF was submitted, Hydro One sent the Butternut Health Assessment to the MNR Forester on June 15, 2012. On June 25, 2012, a meeting took place with MNR on the Project area to review the Butternut Health Assessment. Based on new findings, a revised assessment was submitted on June 26, 2012.

The IGF was updated on August 23, 2012 which included the report on all field surveys undertaken and an associated letter which updated MNR on all aspects of the Project, including the schedule and a request for a meeting. On October 3, 2012 Hydro One followed up with MNR regarding the Project and included the tentative schedule for the upcoming PIC. Hydro One also requested a meeting and feedback on the submissions to date.

On October 4, 2012, Hydro One met with the MNR Forester on the Project area to take DNA samples from the retainable butternuts that are proposed to be removed as part of the proposed line work. The DNA tests have shown that one of the retainable Butternut trees is in fact a hybrid and therefore is not considered retainable. During the on-site meeting, Hydro One and MNR discussed site development, scheduling and restoration along with Hydro One's interaction with other regulating agencies.

MNR informed Hydro One on October 10, 2012 that the IGF was incomplete with respect to the Project details. On October 18, 2012 Hydro One submitted an evaluation of the proposed line work, potential effects on SAR, mitigation and next steps.

MNR responded to Hydro One’s submission on October 24, 2012 noting that key natural heritage features were affected and that the features are to be avoided by transmission projects “unless there is no reasonable alternative and any adverse effects on ecological integrity, features and functions are kept to a minimum.” Before the proposal is accepted, the MNR would like to see whether Hydro One’s consultations with the municipalities, CLOCA and the public result in agreement with the proposed line work. MNR also indicated that replacement for woodland removal will need to allow for full height growth of representative trees (30 metres) with a block width of at least 40 metres (see **Section 7.2** for further details).

Hydro One will keep MNR apprised of public and regulatory agency feedback regarding the proposed line work and restorative requirements.

Information panels displayed at PIC #1 (see **Appendix B3**) were provided; no comments were received.

An invitation to PIC #2 was provided; no comments were received based on this PIC.

Hydro One will continue to work closely with the MNR throughout the project.

4.4.4 Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA)

OMAFRA expressed interest in providing input regarding the study. They also indicated that the PPS protects as a provincial interest, prime agricultural areas. OMAFRA’s objectives through the environmental assessment process are as follows:

- Ensure that appropriate agricultural criteria area considered and applied equitably.
- Ensure that consideration is given to avoiding prime agricultural areas and agricultural operations.
- When it is shown that prime agricultural area cannot be avoided ensure that adverse effects are minimized.

Hydro One indicated that it would ensure to provide further information regarding the project via email. Information panels displayed at the PIC #1 (see **Appendix B3**) were provided; no comments were received.

A notification email as well as a follow up email on the Community Information Meeting was sent (see **Section 4.7.6** for details of the Community Information Meeting). No further comments were received.

An invitation to PIC #2 was provided; no comments were received based on this PIC.

4.4.5 Ontario Ministry of Transportation (MTO)

Hydro One is not within 400 metres of a 400 series highway and therefore requires no approvals from MTO.

Information panels displayed at the PIC #1 (see **Appendix B3**) were provided to MTO; no comments were received.

An invitation to PIC #2 was provided; no comments were received based on this PIC.

4.4.6 Ministry of Tourism, Culture and Sport (MTCS)

Although Hydro One has offered to meet with the MTCS on a number of occasions since initial Project notification, consultation was largely accomplished by the exchange of letters and emails. Information panels displayed at the PIC #1 (see **Appendix B3**) were provided to MTCS; no comments were received. On October 17, 2012, a write up of the findings of the built cultural heritage, cultural heritage landscapes and archaeological sites, along with the completed MTCS heritage check list were provided to MTCS for their review and comment.

A letter was received on November 2, 2012 from the MTCS providing their preliminary comments indicating that MTCS has an interest in the conservation of cultural heritage resources including archaeological resources, built heritage resources, and cultural heritage

landscapes, and that they may have further comments during the review period of the draft ESR.

In the November 2, 2012 letter, MTCS indicated that based on the information provided on October 17, 2012 a Heritage Impact Assessment (HIA) is recommended for this Project and “should be completed prior to the completion of this EA and the report and its recommendations should be considered as part of the current overall EA.” MTCS also indicated that “all archaeological assessments must be completed, reviewed by an Archaeology Review Officer and the recommendations accepted prior to the completion of this EA.”

A response letter was sent on November 5, 2012 to MTCS to reaffirm Hydro One’s position that an HIA of private properties not physically affected by the Project was not a requirement of the Class EA and that future assessment of privately owned land would be inconsistent with the spirit and intent of the *Freedom of Information and Protection of Privacy Act*. Hydro One did confirm that an assessment of visual effects would be completed as part of the Class EA process for the Project to address the cultural heritage landscapes, as well as to clarify the Class EA requirements related to archaeology and heritage assessments. A follow-up meeting was scheduled for November 13, 2012 to further discuss the Project and the next steps.

During a meeting with MTCS on November 13, 2012, MTCS reaffirmed that Hydro One should conduct a HIA on the study area and to include all adjoining privately owned lands. Hydro One agreed to complete a HIA report on the visual effects and the impact to the landscape associated with a new station, and reaffirmed that it would be inappropriate to include assessments of privately owned properties.

An invitation to PIC #2 was provided; no comments were received based on this PIC.

Hydro One provided the HIA Report to MTCS on June 19, 2013. A response from MTCS was received on July 17, 2013, which maintained their position that an HIA should assess adjoining private properties.

Hydro One will continue to work closely with the MTCS throughout the Project.

4.4.7 Ontario Ministry of Municipal Affairs and Housing (MAH)

Hydro One notified the MAH of the Project and received confirmation from MAH that the “section 30 of the ORMCP would not apply in this situation for a new TS proposal as development and site alteration as defined in the ORMCP is not being triggered”. However “section 41 of the ORMCP contains detailed approval policies and standards for transportation, infrastructure and utilities proposals that would apply.”

Section 30 of the ORMCP (2002) involves the Landform Conservation Areas.

MAH indicated that,

“Section 41 provides detailed policies for an application for a utilities use on lands within the Natural Linkage and Natural Core Areas, and key natural heritage features or hydrologically sensitive features in any land-use designation addressing planning, design and construction practices.

In particular, the policies require that need for the project has been determined to be necessary and there is no reasonable alternative, the area of construction disturbance to be kept to a minimum, protection of key natural heritage and hydrologically sensitive features and that planning, design and construction practices minimize any adverse impacts on the ecological integrity of the ORMCP, among other matters.”

Hydro One has addressed the ORMCP Section 41 requirements as documented in this ESR. **Section 1.1** describes the need for the undertaking and **Section 1.3** provides information on why there are no feasible alternatives to the undertaking. **Sections 2.4** and **5** provide details on the alternative methods of carrying out the undertaking, such as different routes for access roads and transmission lines, which have been selected to minimize the area of

construction disturbance associated with this project. During the course of the Class EA process, no technically or economically feasible alternatives were identified; Hydro One has concluded that there are no other reasonable transmission system options or locations for a new 500/230 kV TS which will address the need for the project.

Section 7.2 provides information on the KNHF, including those specified in the ORMCP, that will be affected by the Project and the mitigation measures and natural environment restoration and habitat creation activities that Hydro One will be undertaking to fulfill the commitments set out in this ESR.

Information panels displayed at the PIC #1 (see **Appendix B3**) were also provided to MAH; no comments were received.

An invitation to PIC #2 was provided to MAH; no comments were received.

4.5 Municipal Government and Agencies

4.5.1 Municipal Officials

City of Oshawa and Municipality of Clarington elected officials have been informed throughout the Class EA process.

Representatives of Hydro One and the OPA met with the Mayor, two Councillors and Planners from the Municipality of Clarington on April 13, 2012 at the municipal office to present the Project and gather initial comments and feedback.

The Mayor of the Municipality of Clarington, Regional Councillor for Durham Region, and Councillor for the Municipality of Clarington were in attendance of PIC #1.

The Mayor of the Municipality of Clarington was in attendance of the Community Information Meeting on September 11, 2012.

Information panels displayed at the PIC #1 (**Appendix B3**) and the Community Information Meeting Report (**Appendix B4**), and an invitation to the PIC #2 were provided. Hydro One received a request for further information on the items discussed at the Community Information Meeting be presented at PIC #2. This information is captured in the information panels presented at PIC #2. No further comments were received.

An invitation to PIC #2 was provided and the Mayor of the Municipality of Clarington and the Regional Councillor for Durham Region were in attendance of PIC #2.

4.5.2 Regional Municipality of Durham Planning Department

Hydro One contacted the Planning Department of Durham Region and they indicated that Hydro One should contact the Municipality of Clarington and the City of Oshawa directly to discuss details of the Project.

Information panels displayed at the PIC #1 (see **Appendix B3**) were provided; no comments were received.

A notification email as well as a follow up email on the Community Information Meeting was sent (see **Section 4.7.6** for details of the Community Information Meeting). No further comments were received.

Invitation to PIC #2 was provided and a representative of the Planning Department attended the PIC #2. The representative suggested that monitoring wells be placed at the site and be monitored during construction and operation. Hydro One stated that a monitoring programme was planned for pre, during and after construction.

4.5.3 Regional Municipality of Durham Health Department

A representative of the Durham Region Health Department attended an initial Project meeting on June 7, 2012 at the municipal office at Clarington (see **Section 4.5.5**). The

concern raised by the Health Department related to the proposed installation of washroom facilities on site.

The Health Department was contacted on July 31, 2012 to further discuss the project and the permit requirements for the installation of washroom facilities. The Health Department informed Hydro One of the various permit requirements based upon the type of washroom facilities being considered. Hydro One was also advised that any water supply to the site was the mandate of the Municipality of Clarington.

Hydro One will continue to consult with the Health Department throughout the planning of the Project regarding the washroom facilities.

An invitation to PIC #2 was provided; no comments were received.

4.5.4 Municipality of Clarington Emergency and Fire Services

The Emergency and Fire Services Department at Clarington indicated in the PPF that they were not interested in providing input regarding the study but would like to be kept on the project's mailing list.

During the June 7, 2012 meeting with the Municipality of Clarington, a fire truck turning circle requirement was discussed with the Operations Department. A turning circle is being incorporated into the final station design.

Information panels displayed at the PIC #1 (see **Appendix B3**) were provided; no comments were received.

An invitation to PIC #2 was provided; no comments were received.

4.5.5 Municipality of Clarington Planning Department

Representatives of the Planning Department were present at the April 13, 2012 meeting where Hydro One and OPA presented the Project to the Municipality of Clarington (see **Section 4.5.1**).

Several representatives of the Planning Department attended the PIC #1 to obtain further information about the Project. Information panels displayed at the PIC#1 (**Appendix B3**) were provided.

A meeting took place at the Municipal Office in Clarington to present the Project and gather initial comments and feedback from the Planning Department on June 7, 2012. Other agencies that attended this meeting included: Engineering, Operations, Buildings, Durham Region Health Department, and CLOCA. The comments and issues discussed at the meeting included:

- Proposed washroom facilities on site – see **Section 4.5.3** for more information on consultation with the Health Department;
- Potential station access via the unopened Townline Road North – see below for the July 12, 2012 meeting discussion;
- Potential road damage with the truck traffic and heavy loads;
- Transformer transportation route – ongoing communication with Clarington will take place throughout the Project;
- Watercourse crossings, vegetation removal and restoration for the Project – see **Section 4.5.7** for more information on consultation with CLOCA;
- Hydro One to address elements of the ORMCP;
- Building permits – Hydro One will be applying for the building permits from Clarington for the Project see **Section 1.5.2**; and
- Site plan application – see below for the September 6, 2012 conference call discussion.

A meeting took place on July 12, 2012 at the Municipal Office in Oshawa to discuss the Road User Agreement for Townline Road North regarding the station access. Representatives from both Clarington and Oshawa were present. Ongoing communication

between Hydro One and the municipalities will continue throughout the Project. More information regarding the station access road can be found in **Section 4.7.5**. At the meeting, the transformer transportation route was discussed and the municipalities indicated that Hydro One should meet municipal requirements.

On September 6, 2012, a conference call was held. The purpose of the conference call was to provide an update of the Class EA process including the upcoming consultation activities and the Project timeline. Hydro One has informed Clarington that Hydro One is not willing to enter into a site plan agreement and is proceeding under Section 62 of the *Planning Act* (see **Section 1.5.2**). Hydro One will be making submissions of drawings only for municipal review and comment.

A notification email as well as a follow up email about the September 11, 2012 Community Information Meeting along with the summary report was provided (see **Section 4.7.6** for details of the Community Information Meeting).

An invitation to PIC #2 was provided and representatives of the Planning Department attended the PIC #2. No comments were received.

Hydro One will continue to work closely with the Clarington Planning Department throughout the project.

4.5.6 City of Oshawa Planning Department

The Planning Department indicated on the PPF that they have no specific concerns or comments at this point but may have comments in the future. They also indicated that the site is designated “Prime Agricultural Areas”, within the Greenbelt Plan boundary of the Regional Official Plan. They would like to be kept on the Project’s mailing list.

A representative of the City of Oshawa Planning Department attended the PIC #1, and indicated that there is a potential re-routing of Winchester Road as a result of the future Highway 407 project. Further discussions concluded that this will not be an issue as the

expected timing of the two projects does not conflict. Information panels displayed at the PIC #1 (see **Appendix B3**) were provided.

A meeting took place on July 12 at the Municipal Office in Oshawa to discuss the Road User Agreement for Townline Road North regarding the station access. Representatives from both Clarington and Oshawa were present. Ongoing communication between Hydro One and the municipalities will continue. More information regarding the station access road can be found in **Section 4.7.5**. At the meeting, transformer transportation route was discussed where the municipalities indicated that Hydro One should meet municipal requirements.

A notification email, as well as a follow up email about the September 11, 2012 Community Information Meeting along with the summary report was provided (see **Section 4.7.6** for details of the Community Information Meeting).

An invitation to PIC #2 was provided; no comments were received.

4.5.7 Central Lake Ontario Conservation Authority (CLOCA)

Information panels displayed at the Public Information Centre #1 (see **Appendix B3**) were provided; no comments were received.

An initial Project meeting was held on June 3, 2012 with representatives of CLOCA to present the circumstances behind the need for the Project, the site and station requirements to meet the need, timelines and intended studies to be undertaken to satisfy the Class EA requirements and those pertaining to both CLOCA and the Municipality of Clarington.

On June 7, 2012 a representative of CLOCA attended the initial Project meeting with the Clarington Planning Department at the municipal office at Clarington as one of the relevant agencies of Clarington. It was confirmed at the meeting that CLOCA will be addressing all environmental components of the Project on behalf of the Municipality of Clarington.

An onsite meeting with representatives of CLOCA was held on July 19, 2012. The purpose of the meeting was to review the proposed station access road via Townline Road North, to discuss the proposed site layout, pre- and post-construction drainage site characteristics, and the results of terrestrial and aquatic field surveys. CLOCA had several requirements which resulted in the subsequent submission of the following deliverables:

- Rationale for one station drainage system outlet as opposed to two. The two outlets option was discussed by CLOCA to maintain current sub-catchment basin drainage characteristics;
- Grading options and profiles outside the fence in the north and north-west sections of the site adjacent to the wooded area and creek system;
- Access road location along and off of Townline Road North;
- Map of the intended temporary and permanent creek crossings including data sheets providing the statistics on each crossing and the proposed crossing structures;
- Findings of the terrestrial and aquatic field surveys;
- Identification and evaluation of the alternative transmission lines reconfiguration and rationale for the preferred selection; and
- Species list for remediation of creek and planting on station slopes.

Further to the deliverables submitted, on October 23, 2012, Hydro One provided an impact statement associated with the proposed line work and the intended remediation, vegetative restoration and screening plan, as well as a revision to the station design in the north and north-west sections of the site adjacent to the woodland and creek. The location of the future Enfield TS has been shifted approximately 50 metres to the south thereby reducing the potential effects to the woodland and creek.

A meeting on October 26, 2012 was held with representatives of CLOCA to discuss the deliverables and October 23rd submission, and receive their feedback. CLOCA was agreeable in principle with the Project and the proposed vegetative restoration and screening plan. Further information was requested from CLOCA regarding the geotechnical investigation report undertaken for the station and more information on the Hydro One spill containment system. This was provided following the meeting for their review.

An invitation to PIC #2 was provided; no comments were received.

Hydro One will continue to work closely with CLOCA throughout the Project.

4.6 Interest Groups

4.6.1 Friends of the Farewell

Friends of the Farewell is a local environmental group located in Courtice, Ontario. They indicated that they would like to receive detailed maps and information on the Project.

Information panels displayed at the PIC #1 (see **Appendix B3**) were provided; no comments were received.

A representative of the Friends of the Farewell attended the Community Information Meeting that was held on September 11, 2012 (see **Section 4.7.6** and **Appendix B4**) and requested that Hydro One create Loggerhead Shrike habitats as part of any restoration initiatives. Hydro One stated that it would consult with other environmental agencies with respect to this request.

A follow up email on the Community Information Meeting along with the summary was provided (**Appendix B4**).

An invitation to PIC #2 was provided and a representative of Friends of the Farewell attended the PIC #2 to discuss their comments on the Loggerhead Shrike. Before PIC #2, a brief meeting was held to discuss two funding proposals from the Friends of the Farewell.

The first proposal was for funding as part for work being undertaken by CLOCA as part of the Great Lakes Guardian Fund. The funding would be for a native plant kit for planting the lower reaches of the Farewell Creek.

The second proposal was the discussion of habitat for the Loggerhead Shrike. Hydro One representatives discussed the proposed vegetation restoration plan for the site and indicated that Loggerhead Shrike habitat was something they would consider as part of the restoration. This proposal was previously discussed as part of the Enfield TS project.

Hydro One also indicated that there is a Loggerhead Shrike Recovery Program in Ontario and it would need to consider the program to ensure any work that would be undertaken would have the greatest net positive effect. Both parties agreed to continue the discussion of the two proposals at a later date.

4.6.2 Enniskillen Environmental Association (EEA)

EEA is an environmental group formed on September 4, 2012 (after the May 23 PIC #1) that is represented by approximately four members who reside in the vicinity of the proposed station. Before the EEA was formed, the members had expressed concern for the Project.

Concerns raised prior to the formation of EEA are addressed under Public Involvement (**Section 4.7**) and Summary of Public Concerns and Comments (**Section 4.8**).

Correspondence between the Hydro One and EEA took place through email, telephone and letters. Hydro One provided maps, reports, statistics, and other requested information.

Members attended September 11, 2012 Community Information Meeting. A follow up email on the Community Information Meeting along with the summary was provided (see **Section 4.7.6** for details of the Community Information Meeting).

Hydro One sent a letter to EEA on October 5, 2012 regarding a potential meeting date to discuss their concerns. EEA responded on October 11, 2012 requesting October 15, 2012 as their meeting date. The EEA requested for the minutes from the September 11, 2012 Community Meeting along with a large scale site map of the Project with the facility overlay. The EEA raised the following concerns in their letter:

- Timeline for the ESR is “unrealistic and unnecessary as the process for identifying an economical and practical site has yet to be fully established and demonstrated to all stakeholders;”
- Pickering NGS has the potential to operate until 2020, construction does not need to begin in 2013 if it will only take one year;
- Lack of justification for the cost of the Project;
- Explanation of how Hydro One will fund the Project;
- Justification for building on environmentally sensitive lands; and
- Consideration of alternative sites.

As a follow up of the October 11, 2012 letter, the EEA suggested three sites to Hydro One to consider: Cherrywood TS, Pickering NGS, and Whitby TS. The EEA further stated that there are large parcels of flat land that border Lake Ontario between Pickering and Bowmanville (Darlington NGS).

Hydro One responded to the EEA’s letter indicating that at the meeting on October 15, 2012, Hydro One would listen to their concerns and provide a large overlay of a similar looking station and provide it to the EEA at the meeting. Hydro One provided a proposed agenda for the meeting.

On October 13, 2012 the EEA responded to the proposed agenda, and indicated that they had not received the September 11, 2012 Community Information Meeting minutes and indicated that the October 15, 2012 meeting “will hinge directly on answers to our questions from September 11, 2012. The large issues you noted in your meeting agenda sent to us yesterday will require the whole community’s attendance and their right to respond.”

Hydro One provided a copy of the Community Information Meeting proceedings and indicated that the initial agenda provided was based on recurring questions that Hydro One noted by the EEA at the PIC #1 and Community Meeting.

Hydro One and the EEA met on October 15, 2012 to discuss their concerns and issues. Hydro One provided an updated Conceptual Layout, Natural Heritage Features map,

Whitby TS and surrounding area map, Pickering NGS to Cherrywood TS corridor map, and OPA's evidence for Oshawa Area TS in support of Hydro One's 2013/2014 Revenue Requirement Application with the recommendation letters to Hydro One in October 2011 and January 2012 (see **Appendix A**). The meeting discussed the transmission network, integrated power system planning, need for Project, Pickering NGS, Cherrywood TS, area surrounding Cherrywood TS, Whitby TS and surrounding area, Wesleyville GS, Clarington site rationale, scope of Clarington TS, station access roads, the well on Hydro One property, hydrology and hydrogeology, stray voltage, EMF, SF6 and construction noise effects. Hydro One also provided information on the current EA timeline, public consultation, ongoing public engagement and next steps. Hydro One provided the EEA with the meeting notes.

On October 30, 2012 a representative of the EEA sent a letter to Hydro One regarding their previously proposed Pickering NGS site and raising a concern on oil spills. Regarding the suggestion of Pickering NGS, the following reasons were provided by EEA for why the Project should be relocated there:

- would save millions in costs;
- land is available to build the Project;
- there is room in the existing corridor from Darlington for an additional 500 kV line;
- entire infrastructure is already present; and
- all that would be required would be disconnecting one system and hooking up another.

The EEA further indicated that locating the Project at the Pickering NGS, “would eliminate taking a pristine piece of the Oak Ridges Moraine.” Their concern with the current Project location relates to a spill occurring now or in the future which “could totally destroy the whole watershed,” in particular relating to groundwater. For information relating to Hydro One's spill containment system, refer to **Section 7.1.2**.

An email was received on November 2, 2012 from a member of the EEA inquiring whether Hydro One will be addressing the rest of the items on the September 11, 2012 community meeting agenda prior to the PIC #2. Hydro One responded on November 5, 2012 that the Project team has taken the community's questions into consideration and will provide information at the PIC #2.

On November 5, 2012 a member of the EEA sent an email to Hydro One posing a series of questions.

- What is the chain of approval process and the associated timelines?
- What other agencies or government bodies/ offices are involved in terms of approval for financing and construction?
- How can Hydro One justify the 2015 in service date? As their sources informed them that Pickering NGS will not be decommissioned before 2020.
- What is Hydro One’s financial business plan for the Project?
- Please provide the actual construction estimate.
- Who is going to finance the Project?

The email further commented on the following:

- Hydro One did not give the “alternative sites” serious consideration, and that the technical explanations are insufficient.
- The OPA evidence (see Appendix A) “did not make rational sense” and “is misleading”, “not realistic”, and “does not substantiate the risk of inadequate supply by early 2015”.
- It is a “huge mistake by constructing this huge station in a natural valley with huge drainage issues among many other complicated environmental impact issues”.
- Construction will destroy the ecological balance of the noted valley.
- The Project will put water wells at risk for contamination.

An invitation to PIC #2 was provided and representatives of the EEA attended the PIC #2. Comments and issues raised during the PIC have been summarized in **Section 4.7.7**.

Further email correspondence between Hydro One and EEA occurred during and beyond the draft ESR review period. Please see **Sections 4.10 to 4.12** for further details.

Hydro One will continue to work closely with the EEA and the affected area residents throughout the Project.

The following sections describe the sites that have been proposed by the EEA throughout the Class EA process and the reasons why Hydro One determined them to be not viable and are not considered further. The locations of the proposed sites are shown on **Figures 4-1 to 4-4**.

Pickering NGS

Constructing the 500/230 kV station at the site of the existing Pickering NGS is not viable due to technical reasons.

There is no 500 kV source at Pickering NGS. Therefore, a new double circuit 500 kV transmission line, approximately 7 km in length, connecting this site to Cherrywood TS would be required. There is not enough room within the existing transmission corridor to accommodate the new lines. Furthermore it would be very difficult to obtain new land rights through the densely populated urban area. Building new transmission lines would require OEB Section 92 approval. Even if new 500 kV lines could be built, this option is not technically viable as it would create unacceptable short circuit levels at Cherrywood TS posing safety risks as well as equipment failure risks.

Darlington NGS

Constructing the station at the site of the existing Darlington NGS is not viable due to economic reasons.

There is no 230 kV source at Darlington NGS site. In order to integrate this site to the 230 kV system, construction of approximately 25 km of new 230 kV transmission lines to the existing 230 kV transmission lines north of this site is required. Land rights for a new transmission corridor would be required to accommodate the new lines. Building new transmission lines would require OEB Section 92 approval. This option substantially increases the costs.

Wesleyville GS

Similar to Darlington NGS, constructing the station at the site of the Wesleyville GS is not viable due to economic reasons.

There is no 230 kV source at Wesleyville GS site. In order to integrate this site to the 230 kV system, construction of approximately 25 km of new 230 kV transmission lines to the existing 230 kV transmission lines north of this site is required. Land rights for a new transmission corridor would be required to accommodate the new lines. Building new transmission lines would require OEB Section 92 approval. This option substantially increases the costs.

Whitby TS and surrounding lands

Constructing the station at this site in the Whitby area is not viable due to economic and environmental impact reasons.

The existing 230 kV and 500 kV transmission lines run in parallel on the existing corridor adjacent to the site. A total of four 500 kV connections and ten 230 kV connections will be required to be built and connected to the station. This configuration would be extremely complicated and would require substantial land acquisitions from multiple property owners to accommodate the station and the associated line connections.

In addition, to provide the required level of transmission system reliability to the eastern portion of the GTA, this option would also require that a new 7km 230 kV 2-circuit line be built between the Whitby TS junction and Columbus Junction to connect the Thornton TS supply pocket radially from a proposed new 500/230 kV transformer station near Whitby TS. Land rights for a new transmission corridor would be required to accommodate the new lines. Building new transmission lines would require OEB Section 92 approval.

This option substantially increases the costs.

“Seaton” lands and lands surrounding Cherrywood TS

Constructing the station at the site north of Cherrywood TS or any other site close to Cherrywood TS is not viable due to technical, economic and environmental impact reasons.

Placing the station in this area will require integration into the Cherrywood TS system with new 500 kV and 230 kV lines from Cherrywood TS. This option is not technically viable as

it would create in unacceptable short circuit levels at Cherrywood TS posing safety risks as well as equipment failure risks. This option would require substantial land rights for station and transmission facilities. This option substantially increases the environmental impacts and costs.

This option would not provide the required level of transmission system reliability to the eastern portion of the GTA.

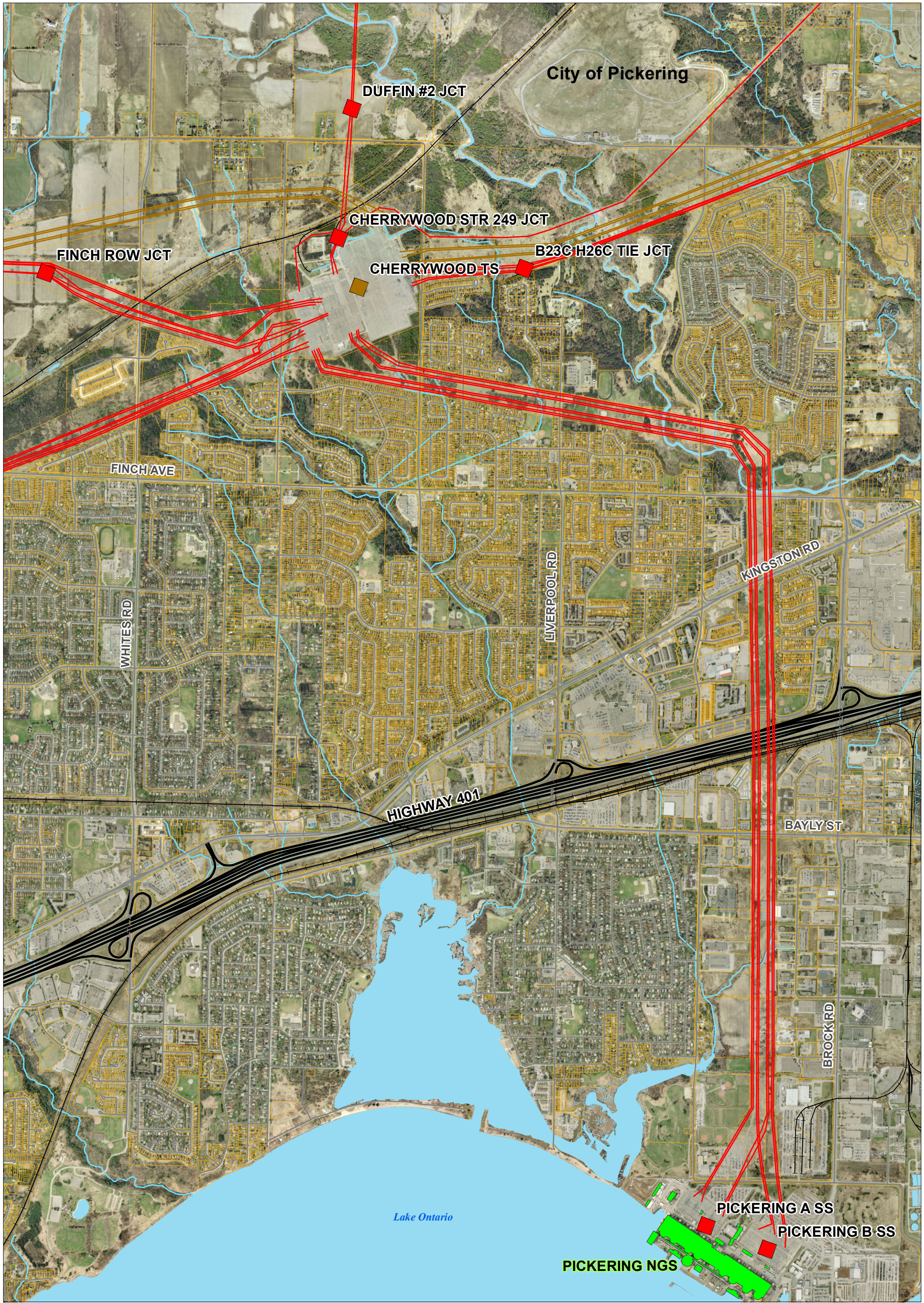
Rundle Road/ Taunton Road area

Similar to Darlington NGS, constructing the station at this site is not viable due to economic reasons.

There is no 230 kV source at this site. In order to integrate this site to the 230 kV system, construction of approximately 13 km of new 230 kV transmission lines to the existing 230 kV transmission lines north of this site is required. Land rights for a new transmission corridor would be required to accommodate the new lines. Building new transmission lines would require OEB Section 92 approval. This option substantially increases the costs.

Proposed Installation of One Autotransformer and related facilities at Clarington and one at Whitby to reduce the size of the Clarington Station

Distributing the transformation and switching facilities proposed for Clarington TS to two station sites such as Clarington TS and Whitby TS would require developing transformation and switching facilities at two station sites rather than just one as well as requiring the incorporation of all five 230 kV circuits and two 500 kV circuits into each station site. This two station approach would double the number of 230 kV and 500 kV switching facilities required as compared to installing both autotransformers at one site such as Clarington TS. Distributing the transformation and switching facilities proposed for Clarington TS to two station sites would therefore substantially increases the costs.



Produced By: Inergi LP, GIS Services

Date: July 24, 2013

Fig4-1_Map12-02_ClaringtonTS_PickeringNGS_CherrywoodTS_Existing

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- 230 kV Station/Junction
- 500 kV Station/Junction
- Generating Station

Transmission Lines

- 230 kV
- 500 kV
- Highway
- Roads
- +— Railways

Watercourses

- Water
- ▨ Wetlands
- Land Parcels

Clarington TS - Pickering NGS and Cherrywood TS Existing Conditions

Figure 4-1



1:20,000 0 0.25 0.5 km