

APPENDIX A-6:

Public Information Centre

PIC #2

Documents



SEATON MUNICIPAL TRANSFORMER STATION

Welcome to our Public Information Centre



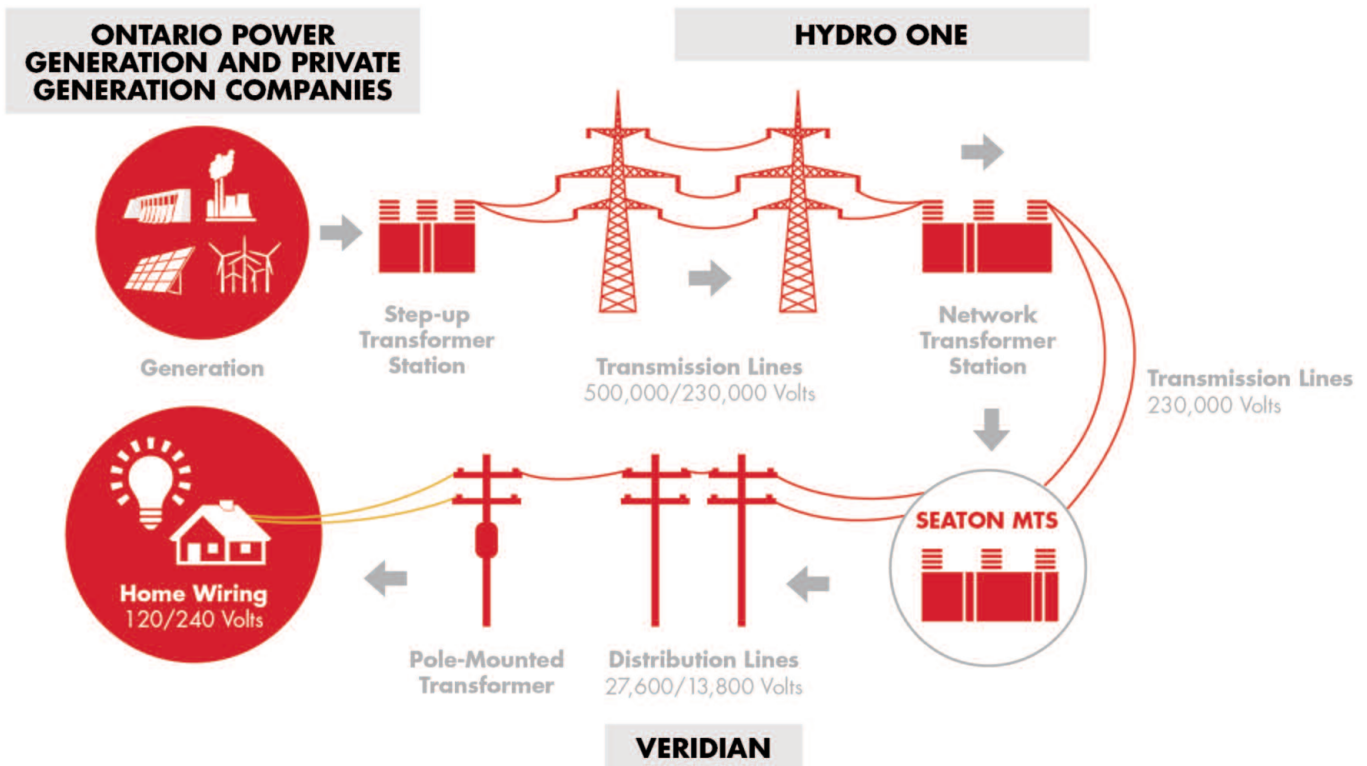
VERIDIAN
CONNECTIONS
The power to make your community better.



Partners in Powerful Communities

SEATON MUNICIPAL TRANSFORMER STATION

Delivering Power to Your Community



Hydro One Networks Inc.'s (Hydro One) transmission system carries high-voltage electricity across the province to local distribution companies, like Veridian Connections (Veridian), to be safely delivered to homes and businesses in the area.

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Purpose of the PIC

Meet Hydro One and Veridian's project team and learn more about:

- The proposed project in your community
- The preferred station site location and associated transmission connection selected
- Natural environment data collected to date
- The planning and approvals process
- Next steps and opportunities for your participation

We're here to listen to your comments, obtain your feedback and answer your questions.



SEATON MUNICIPAL TRANSFORMER STATION

Project Description

In order to ensure a safe and reliable supply of electricity to Pickering, Veridian and Hydro One are proposing to:

- Construct a new municipal transformer station (Seaton MTS), to be owned and operated by Veridian
- Connect Seaton MTS to Hydro One's existing high-voltage transmission system

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Project Need

- Existing and planned development in North Pickering is expected to contribute to an increase in electricity demand over the next 10 to 12 years
- A forecasted 180 MW* of additional power will be required for the Seaton Development Area
- The Central Pickering Development Plan which establishes land use, transportation, and design policies for Central Pickering considers a population of up to 70,000 people and 35,000 jobs in Seaton
- The need for a new transformer station in the area has also been confirmed in the Master Environmental Servicing Plan (MESP)
- Through an assessment of existing electrical capacity, Veridian identified that a new transformer station would best serve this anticipated growth in demand

* 1 MW is the equivalent of approximately 250 average residential users

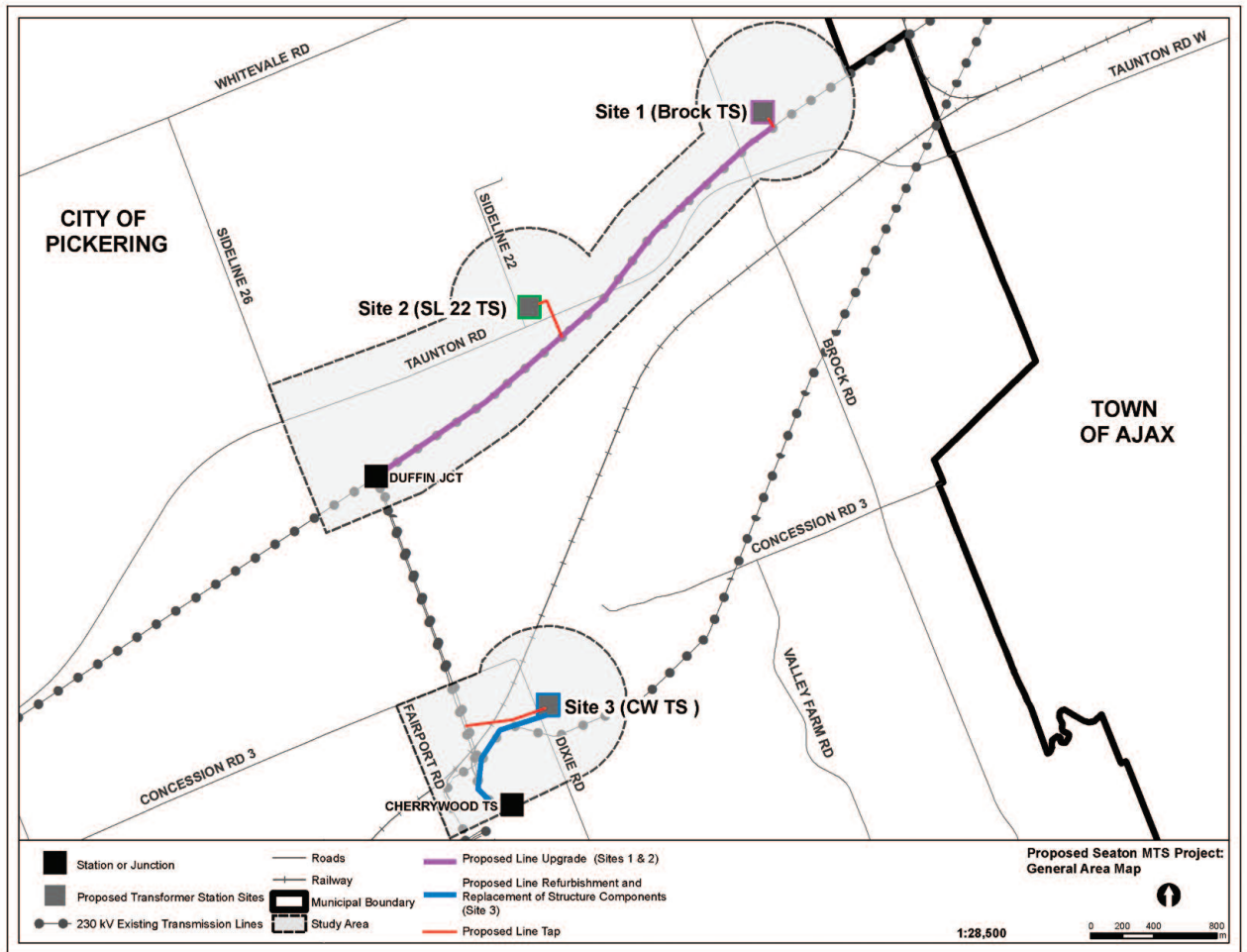
SEATON MUNICIPAL TRANSFORMER STATION

Project Background

- In June 2015 Veridian initiated a Class Environmental Assessment (EA) to evaluate three alternative transformer station sites
- To ensure Veridian's new facility has an adequate supply of power, it must be connected to Hydro One's transmission grid
- In October 2016, Hydro One and Veridian, together as co-proponents, began updating the Class EA Study to plan for both the construction of the new station and its connection to Hydro One's transmission system
- This revised study will evaluate and determine a preferred location for the proposed transformer station and the associated transmission connection

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Study Area



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Selecting a Preferred Site and Associated Connection

Each route was evaluated and scored on the potential effects to the following categories and criteria:

<p>Agricultural Lands</p> <ul style="list-style-type: none"> • Proximity to actively farmed lands 	<p>Recreational Resources</p> <ul style="list-style-type: none"> • Trails
<p>Human Settlement</p> <ul style="list-style-type: none"> • Proximity to residences, schools, businesses and other facilities • Number of road and railway crossings 	<p>Cultural Heritage Resources</p> <ul style="list-style-type: none"> • Proximity to heritage features
<p>First Nations or Métis Communities</p> <ul style="list-style-type: none"> • Cultural/traditional/historical land or resources identified • Potential effects on fish, wildlife and botanical species of interest 	<p>Natural Environment</p> <ul style="list-style-type: none"> • Presence of Species at Risk • Distance to nearest water courses
<p>Visual and Aesthetic Considerations</p> <ul style="list-style-type: none"> • Proximity to residences, schools, businesses and other facilities • Number of road and railway crossings 	<p>Technical & Cost Considerations</p> <ul style="list-style-type: none"> • Presence of Species at Risk • Distance to nearest water courses
<p>Forest Resources</p> <ul style="list-style-type: none"> • Number of trees requiring removal 	

The evaluation criteria were established using data collected, field studies and feedback received through consultation, to date.

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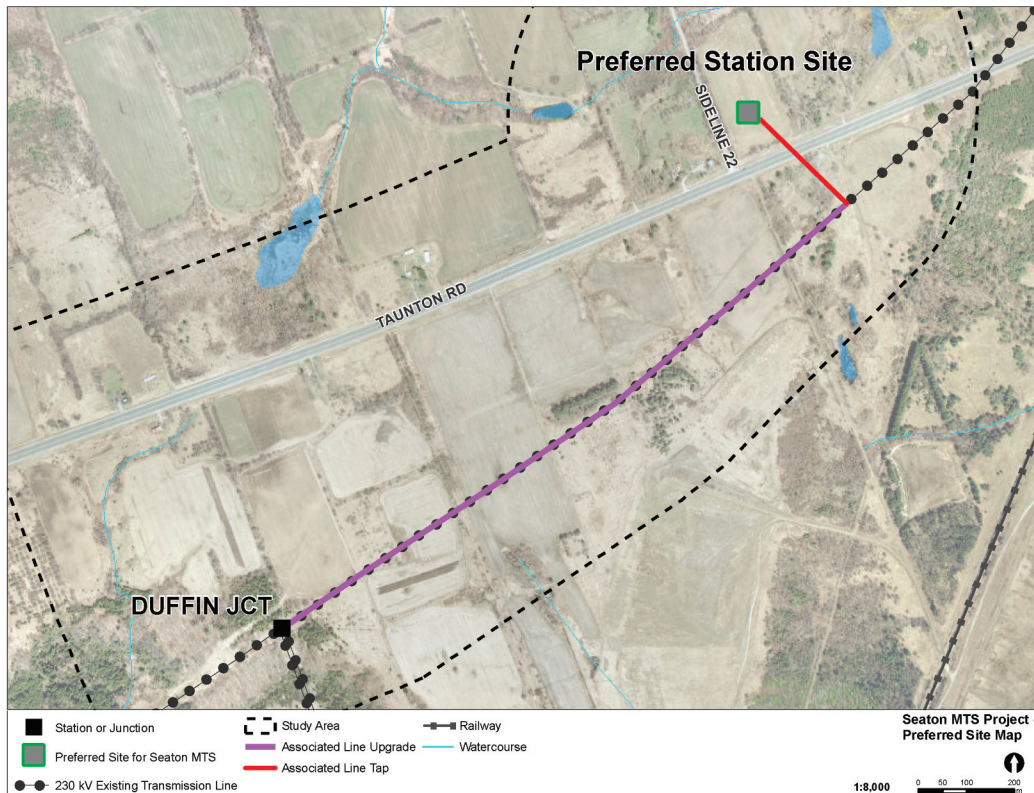
Evaluation Results

Site 1	Site 2	Site 3
<p>This site is favorable with respect to:</p> <ul style="list-style-type: none"> • No easements required to facilitate tap line 	<p>This site is favorable with respect to:</p> <ul style="list-style-type: none"> • Reduced proximity to existing residences and buildings • Less disruption to agricultural lands • Fewer number of trees which require removal • Less impact to natural environment resources • Fewer technical complexities associated with construction 	<p>This site is favorable with respect to:</p> <ul style="list-style-type: none"> • Fewer recreational trails affected

Based on the evaluation and input received through consultation, **Site 2** has been selected as the preferred site.

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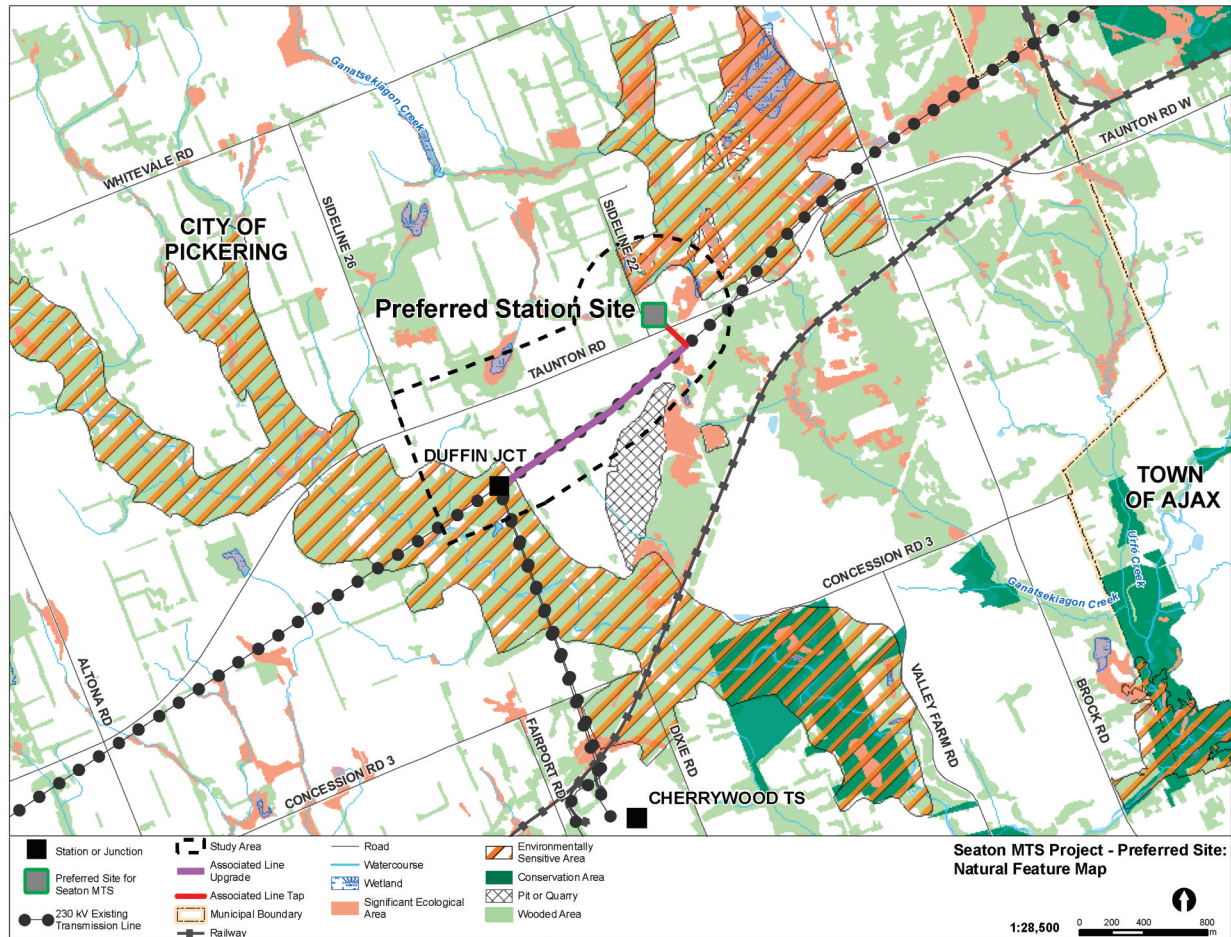
Preferred Site and Associated Connection: Site 2



- Station Location: Northeast corner of Taunton Road (Concession 4 and Sideline 22)
- Hydro One's connection to this site will involve replacing less than 2 km of existing 230 kV line

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Environmental Features Map



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Features of Seaton MTS

- The proposed Seaton MTS will be a 230 kilovolt (kV) /28 kV transformer station, transforming electricity from a 230 kV voltage to a 28 kV voltage which can safely be delivered to homes and businesses.
- The size of this station type is approximately 200m x 200m

Seaton MTS will include the following:

- Two 230 kV/28 kV transformers
- Access roads
- Appropriate fencing
- One enclosed building to house protection and control equipment enabling communication between surrounding infrastructure
- Switchyard to carry electricity throughout station

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Natural Environment Data Collected

WSP Canada was retained to conduct an assessment of the existing conditions of the natural heritage and environmental features within the study area.

Data collected included:

Ecological Land Classification

- 10 distinct vegetation communities identified

Vegetation Inventory

- 89 plant species observed

Wildlife inventory

- 20 wildlife species (not including birds) observed during site surveys

Breeding bird surveys

- 56 bird species observed including four Species at Risk (eg. Bank Swallow)



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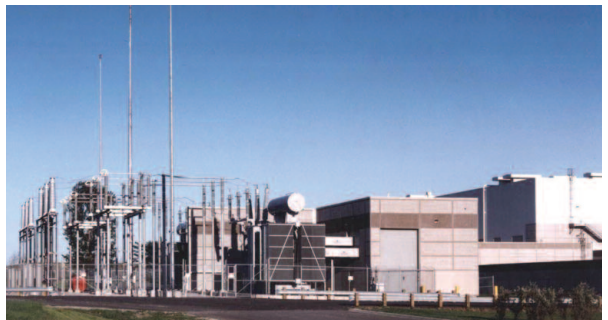
Environmental Mitigation Measures

Measures to reduce, prevent or mitigate potentially adverse environmental effects during design, construction and operation will include:

- Controlling noise, mud, dust, traffic disturbances and other nuisance effects during construction
- Minimizing soil erosion and compaction
- Minimizing effects on terrestrial and aquatic resources
- Environmental management during construction and operation
- Developing appropriate restoration and mitigation plans for required vegetation removal by working closely with the City of Pickering, Ministry of Infrastructure and the Toronto Region Conservation Authority

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Municipal Transformer Station Examples



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Typical Construction Activities

Seaton MTS:

- Installation of access road to facilitate construction vehicle use
- Site area grading
- Installation of transformers and associated equipment
- Selective removal of vegetation for access roads, work area and site development
- Installation of necessary site drainage
- Connection of Seaton MTS to Veridian's local distribution system

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Typical Construction Activities

Connection to Hydro One's system:

- Construction of a temporary bypass line to allow electricity flow while structures are replaced
- Installation of access roads
- Selective removal of vegetation or constraints from ROW that could impede construction
- Removal of old conductor (wire) and tower structures
- Erection of new towers and stringing of conductor
- Construction of tap line to connect Seaton MTS to the transmission system



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Connection to Hydro One's System

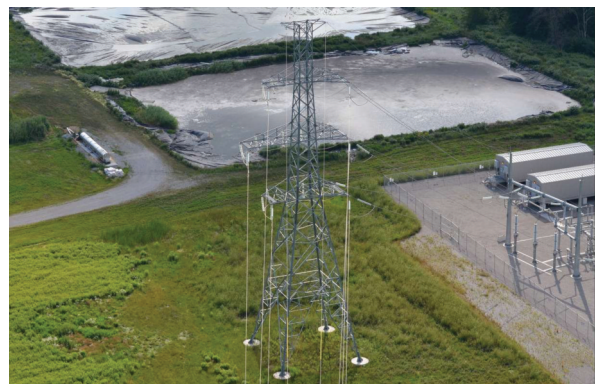
The proposed Seaton MTS will connect to Hydro One's existing 230 kV line in the area.

The connection to the preferred site 2 will involve:

- Replacing approximately 1.5 km of Hydro One's existing single circuit (3 wires) 230 kV line with a double circuit (6 wires) 230 kV line
 - This will involve the installation of lattice tower structures of approximately 90 ft in order to provide electrical, mechanical and structural support
- A connection point (tap line) consisting of steel structures will also be constructed to connect Seaton MTS to the 230 kV line



230 kV line with double circuit



Typical connection point

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Project Approvals

- This project is subject to the provincial *Environmental Assessment Act*, and is being planned in accordance with the process outlined in the *Class Environmental Assessment (Class EA) for Minor Transmission Facilities (1992)*
- The Class EA process is an effective way of ensuring that minor transmission projects that have a predictable range of effects are planned and carried out in an environmentally acceptable manner
- The EA process provides First Nations and Métis communities, public and stakeholder consultation opportunities
- Upon completion of the Class EA, an Environmental Study Report (ESR) will be available for a public review and comment period

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Class Environmental Assessment

- If no concerns are expressed during the public review and comment period, a final ESR will be filed with the Ontario Ministry of the Environment and Climate Change (MOECC)
- If concerns are expressed during the review and comment period, Hydro One and Veridian will attempt to provide resolution to complete the Class EA process
- If Hydro One and Veridian cannot satisfy all concerns raised during the review period, a written request (Part II Order) asking for a higher level of assessment (Individual Environmental Assessment) can be submitted to the MOECC
- The proposed station sites and associated line taps in the study area are located on the Ministry of Infrastructure (MOI) owned lands. The MOI land holdings that may be impacted by this undertaking will be also evaluated through the Class EA process to satisfy the requirements of the MOI Class EA for Public Works

What does the Class EA Process Consider?

The Class EA process will identify potential project effects related to:

- Business and residential property owners
- Planned land uses and existing infrastructure
- Terrestrial and aquatic resources
- Environmentally sensitive areas
- Archaeological and heritage resources
- Recreational resources

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Next Steps

TIMELINE

PUBLIC AND STAKEHOLDER CONSULTATION

Briefing for Municipal and Regional officials	Fall 2016
Revised Class Environmental Assessment initiated	Fall 2016
Public Information Centre #1 Introduction to updated project	Fall 2016
Public Information Centre #2 Selection of preferred station location and associated transmission line connection	Winter 2017
Draft Environmental Study Report available for a 30-day review period	Spring 2017
Final Environmental Study Report filed with the Ministry of the Environment and Climate Change	Spring/Summer 2017
Anticipated start of Construction (Contingent on the outcome of the Class EA process)	Fall 2017

* Revised as of March 2017



SEATON MUNICIPAL TRANSFORMER STATION

Your input is important to us!

Thank you for joining us at this Public Information Centre.

Please join our project mailing list and complete a comment form before you go.

To share concerns or request information call or email us at:

Andrew Roberts

WSP Canada Inc., Project Consultant
Telephone: 1-905-882-4111 ext. 6152
Email: Andrew.Roberts@wspgroup.com

**[www.HydroOne.com/Projects/SeatonTS/
Pages/Default.aspx](http://www.HydroOne.com/Projects/SeatonTS/Pages/Default.aspx)**

www.Veridian.On.ca/ea-Study-Seaton/



MEMO

TO: PROJECT FILE
FROM: ANDREW ROBERTS
SUBJECT: SEATON MTS CLASS EA PIC SUMMARY
DATE: MARCH 2, 2017

Sign-Ins & Attendance The sign in sheet lists two (2) names that attended the PIC. A total of two (2) people attended the PIC: One attendee was from the City of Pickering. One attendee was a member of the Board of Directors for Veridian Connections.

Comment Sheets

- No comment sheets were received at the PIC.

Comment Summary

- The Project Team received no comments on the selection and presentation of the preferred station site and associated transmission line upgrade.

COMMENT FORM

Thank you for attending Hydro One and Veridian’s Public Information Centre. Please take a moment to provide us with your questions and comments regarding any of the material presented today or in regards to any other issues that you feel are relevant to this project. Your input is important to us and will be considered as part of the Class Environmental Assessment process.

COMMENTS:

Please provide your contact information so that we can follow-up with you on your comments or questions, and add you to our project contact list for future communications.

Name: _____

Mailing Address & Postal Code: _____

Tel: _____ Email: _____

Please leave your comment form in the comment box at this meeting or send it to:

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