

**Amherst Island Wind Energy
Project - Renewable Energy
Approval Amendment
Modification Report**



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AMHERST ISLAND WIND ENERGY PROJECT - RENEWABLE ENERGY APPROVAL AMENDMENT MODIFICATION REPORT

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1.0 Introduction

1.1 BACKGROUND

Windlectric Inc. (the Proponent or Windlectric) submitted a Renewable Energy Approval (REA) Application on April 18, 2013 to develop, construct and operate the Amherst Island Wind Energy Project (the Project) within Loyalist Township (the Township) in the County of Lennox and Addington (the County) in eastern Ontario, in response to the Government of Ontario's initiative to promote the development of renewable electricity in the province.

The basic components of the proposed Project include up to 36 Siemens wind turbines. The turbine model proposed utilizes the same 36 turbine pad locations that have been subject to the assessment required under the Renewable Energy Approval (REA). The layout includes 24 Siemens SWT-2.3-113 2300 kW and twelve (12) Siemens SWT-2.3-113 2221 kW model wind turbines. The final layout will result in a total installed nameplate capacity of approximately 56 - 75 MW. The number of wind turbines will be dependent upon final selection of the model of the wind turbine most appropriate to the proposed Project.

The proposed Project will also include a 34.5 kilovolt (kV) underground and/or overhead electrical power line collector system, fibre optic data lines from each turbine and/or wireless technology for the communication of data, a transmission line, truck turnaround areas, a submarine cable, an operations and maintenance building, permanent dock, a substation, a switching station, an un-serviced storage shed, one connection point to the existing electrical system, cable vault areas, meteorological tower(s) (met tower(s)), access road(s) to the met tower site(s), and turbine access roads with culvert installations, as required, at associated watercourse crossings.

Temporary components during construction may include staging areas for the turbines, access roads, met tower(s), collector lines and transmission line as well as crane paths, a temporary dock, site office(s), batch plant, central staging areas, and associated watercourse crossings. The electrical power line collector system would transport the electricity generated from each turbine to the substation, along the submarine cable to the mainland and then to a switching station located near to an existing Hydro One Networks Inc. (HONI) 115 kV transmission line.

The REA application considered the following alternative Project configurations:

- two alternative mainland transmission line routes;
- two alternative switching station locations and corresponding point of common coupling with the HONI line;
- three alternative mainland temporary dock locations along the mainland;

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- a submarine cable with three alternative submarine cable routes near the mainland;
- three alternative mainland submarine cable landing locations and corresponding cable vault locations;
- up to three alternative met tower locations; and,
- up to three potential locations for an operations and maintenance building.

Final selection of the sites to be used would be based on the results of consultation activities, detailed design / engineering work, and the conditions experienced during construction.

Windlectric is making minor administrative and technical modifications to the REA Application as a result of reviewing design features of the layout.

This report and its attachments provide information regarding the minor modifications. Based on the information set out below, the minor modifications Administrative Change and Technical Change pursuant to the classification system outlined in the Ministry of the Environment's *Technical Guide to Renewable Energy Approvals* (October, 2013). As such, this document has been prepared to address the requirements of Chapter 10 "Making Changes to REA Projects" of the Technical Guide.

1.2 SUMMARY AND RATIONALE FOR MINOR MODIFICATIONS

1.2.1 Modification #1 – Administrative Change

As identified in the REA application, the underground cable vault locations are currently located near the shoreline. The Project Description Report and Design and Operations Report describe the location of the cable vaults to be approximately 50 m from the shoreline. The REA documents contain figures/mapping that illustrate the cable vaults closer to the shoreline than would be constructed as described in the Project Description Report and Design and Operations Report.

The revised location for the underground cable vaults are presented in the attached figures (Appendix A) and discussed in the following sections.

1.2.2 Modification #2 – Technical Change

The REA application mapping illustrates the proposed route for the transmission line on Amherst Island from the substation to the underground cable vault. The Project team reviewed the placement of the transmission line in order to assess design efficiencies and further reduce any likelihood of potential environmental impacts.

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The placement for the transmission line was revised to:

- Reduce the angle at which the transmission line crosses Front Road
- Reduce the number of poles, near the substation, by crossing a knoll, on a private land owner's property, by spanning the transmission line over the hill. No poles would be placed on the hill and no entry of personnel onto the hill would be required to install the line between the poles.

Both of these revised locations will still allow the installation of the transmission line to remain in the corridor that was originally assessed.

The revised location for the transmission line is presented in the attached figures (Appendix A) and discussed in the sections below.

The construction and installation activities for the transmission line will be completed in the same manner as the transmission line which is described in the Construction Plan Report, submitted as part of the REA Application.

1.2.3 Modification #3 – Technical Change

The REA application mapping illustrates three alternative submarine cable routes near the mainland. The Project Team assessed the design efficiency of the alternative submarine cable routes and is proposing a minor modification.

The revised location for the alternative submarine cable routes is presented in the attached figures (Appendix A) and discussed in the following sections below.

The construction and installation activities for the submarine cable will be completed in the same manner described in the Construction Plan Report, submitted as part of the REA Application.

1.2.4 Modification #4 – Technical Change

As identified in the REA application, three options were presented for the dock types that were under consideration. Through further detailed design of the island and mainland docks, it has been determined that option 2A is the preferred design methodology as it allows for installation with the least interference with the lakebed during construction.

The docks will be constructed from the land out and will limit the use of jack-up barges needed for construction. The construction contractor has also determined that the entire length of the docks should be constructed in this way rather than using a jack-up barge at the offshore end. For the island dock the total length of 50m \pm 50% (30m of dock and 20m of jack-up barge) will be maintained with 50m \pm 50% of dock and no jack-up barge. In the case of the mainland dock, the

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lengths provided in the Dock Size column of Table 3.2 in the Project Description Report will be maintained, and the jack-up barge will simply be excluded.

In addition, it was concluded that the widening of the first segments of the docks (from the land side out into the water) from 7m \pm 50% to 10m \pm 50% will provide an optimum solution by allowing significantly faster and safer loading and unloading of the barges which will in turn minimize the time that marine logistics will add to the overall construction schedule.

The preference to have access for two barges to be docked at the same time was selected to improve the safety and schedule. To achieve the two barge docking design, the dock designs would need to be wider near the end, widening from 10m to approximately 15m over the last 10m of dock length. This minor design amendment in width will not impact the number of piles needed for the docks or change the footprint of each dock structure with the lakebed.

1.2.5 Modification #5 – Administrative Change

The Project Team reviewed the soft copy of the REA Application and identified that Figures 5 through 14 in the Project Description report were missing. The hard copy of the REA Application has these figures. Figure 5, which illustrates the Noise Contours at 4.5 m, was missing in the soft copy of the Project Description Report (but included in the hard copy submitted to the government), but was included in the REA Application within Attachment B of the Design and Operation Report.

Figures 6 through 14 include conceptual drawings for proposed project components such as the substation, mainland submarine cable termination, etc. Conceptual drawings of the same project components were included in the Draft REA Application that went Public in December 2012.

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Results of Effects Assessment for the Project Modification
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2.0 Results of Effects Assessment for the Project Modification

O. Reg. 359/09 requires that any adverse environmental effects that may result from construction, installation, operation and maintenance activities be described. The term “environment” in O. Reg. 359/09 has the same meaning as in the *Environmental Protection Act*, and includes the natural, physical, cultural, and socio-economic environment.

A screening to identify any new environmental effects that would require additional mitigation or monitoring measures beyond those outlined in the REA documents as a result of the proposed modifications to the Project was completed.

Since the construction and installation methods of the transmission line and submarine cable will be completed in the same manner as the transmission line and submarine cable which has already been assessed as part of the REA Application and the work will be completed within previously assessed areas, no new environmental effects are expected.

2.1 IMPACTS ON STUDIES/ REA REPORTS

None of the REA reports require a material change to the content as a result of the modifications. A summary of the Figures to be amended in each REA report and the minor text change (to the Project Description Report, Design and Operation Report and the Construction Plan Report) is provided in the table below.

2.1.1 Natural Heritage Assessment and Environmental Impact Study

The NHA/EIS (included in the REA Application) identified natural features within the Project Location and the associated 120 m Zone of Investigation around the limits of the Project Location. The Project Location requires a minor modification to account for the change in the cable vault, transmission line and submarine cable location.

A technical review was conducted to determine if the modifications result in: a change to the identification of natural features within 120 m of the new Project Location; a change to the assessment of impacts and mitigation measures; and the overall assessment of changes to the NHA/EIS.

The Project Location associated with Modification #1, 2 and 3 was previously assessed as part of the NHA/EIS that was submitted as part of the original REA Application and was subsequently accepted by the MNR in their Confirmation Letter dated December 14, 2012. As such, no additional NHA/EIS was required for Modification #1, 2 and 3.

It was concluded that overall, the minor modifications will not result in potential effects not previously identified and mitigated in the NHA/EIS.

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Further, the proposed modifications do not require any additions to the Environmental Effects Monitoring Plan (EEMP) as submitted with the REA Application.

2.1.2 Stage II Archaeological Assessment

The Project Location associated with Modification #1 was previously assessed as part of the Stage II Archaeological Assessment that was submitted as part of the original REA Application and was subsequently accepted by the MTCS in their Confirmation Letter dated March 13, 2013. As such, no additional Stage II Archaeological Assessment was required for Modification #1.

The Project Location associated with Modification #2 does not require a Stage II Archaeological Assessment as the transmission line poles will be constructed within the area previously assessed as part of the Stage II Archaeological Assessment that was submitted as part of the original REA Application and was subsequently accepted by the MTCS in their Confirmation Letter dated March 13, 2013. It was concluded that overall, the modifications will not result in potential effects not previously assessed in the Stage II Archaeological Assessment.

2.1.3 Underwater Archaeological Assessment

The area where the Project Location associated with Modification #3 is located was previously assessed as part of the Underwater Archaeological Assessment that was submitted as part of the original REA Application and was subsequently accepted by the MTCS in their Confirmation Letter dated February 14, 2013. The Project Location associated with Modification #3 is outside the recommended minimum buffers from archaeological resources described in the Underwater Archaeological Assessment Report. As such, no additional underwater archaeological assessment was required for Modification #3.

The additional area needed for the wider dock design associated with Modification #4 is entirely within the area that was previously assessed as part the Underwater Archeological Assessment that was submitted as part of the original REA Application and was subsequently accepted by the MTCS in their Confirmation Letter dated February 14, 2013. As such, no additional underwater archaeological assessment was required for Modification #4.

It was concluded that overall, the modifications will not result in potential effects not previously assessed in the Underwater Archaeological Assessment.

2.1.4 Summary of Impacts/Changes to REA Reports and Studies

The modified locations of the cable vaults, transmission line, and submarine cable as well as revised dock size will involve minor changes to the Project Location. The other components of the Project Location shown in the REA Application including turbines, access roads, etc. will remain the same.

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The following table provides a list of the REA reports and studies that were reviewed by MOE, and notes whether changes to the reports are required due to the modifications proposed. As well, an outline of the specific changes or the justification for no change being required is provided. Any changes to the reports have been addressed by issuance of this Modification Report and its appendices.

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Results of Effects Assessment for the Project Modification
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Table 1: Summary of Impacts/Changes to REA Reports & Studies			
REA Reports & Studies	Change (Yes/No)	Figure No.	Discussion of change / Justification for 'no' change
REA REPORTS			
Project Description Report	Yes	1.0, 1.1, 1.2 2.0, 2.1, 2.2 3.0, 3.1, 3.2 4.0, 4.1, 4.2 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	<p>Figures to be updated to display the revised cable vault, transmission line, and submarine cable placement, Appendix A. (Modification #1, 2, and 5)</p> <p>Section 3.4.6: (a) amend text to remove the use of a jack-up barge and the dock width would be approximately 10m ±50%, and (b) end of the docks will be designed to allow two barges to dock</p> <p>Section 3.5.7: (a) Table 3.2 – update Dock size to 10m ±50%, remove reference to jack-up barge, and (b) remove text reference to jack-up barge and dock width is approximately 10m ±50%</p> <p>The figures referred to in the report text to be added, Appendix A. (Modification #5)</p>
Construction Plan Report	Yes	1.0, 1.1, 1.2 2.0, 2.1, 2.2 3.0, 3.1, 3.2 4.0, 4.1, 4.2	<p>Figures to be updated to display the revised cable vault, transmission line and submarine cable placement, Appendix A. (Modification #1, 2, and 5)</p> <p>Section 2: (a) Table 2.1 – update dock type selected and remove reference to jack-up barge</p>
Design & Operations Report	Yes	1.0, 1.1, 1.2 2.0, 2.1, 2.2 3.0, 3.1, 3.2 4.0, 4.1, 4.2	<p>Figures to be updated to display the revised cable vault, transmission line and submarine cable placement, Appendix A. (Modification #1, 2, and 5)</p> <p>Section 3.11: (a) amend text to remove the use of a jack-up barge and the dock width would be approximately 10m ±50%, and (b) end of the docks will be designed to allow two barges to dock</p>
Decommissioning Plan Report	No	n/a	There are no figures within the Decommissioning Plan Report; therefore no changes required.
Consultation Report	Yes	n/a	Consultation with government representative has been undertaken for the proposed modifications to the Project, and the mechanism to update the project documents is described in Section 3 of this Modification Document.

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Table 1: Summary of Impacts/Changes to REA Reports & Studies			
REA Reports & Studies	Change (Yes/No)	Figure No.	Discussion of change / Justification for 'no' change
ADDITIONAL REPORTS			
Natural Heritage Assessment Report	Yes	1A, 1B 2.0, 2.1, 2.2 3.0, 3.1, 3.2 4.0, 4.1, 4.2 5.0, 5.1, 5.2 6.0, 6.1, 6.2	Figures to be updated to display the revised cable vault, transmission line and submarine cable placement, Appendix A. (Modification #1, 2, and 5)
Water Assessment Report	Yes	1, 2 (2 and 4 of 4) 3 4 (1, 2, 3, and 4 of 4) 5 (2 and 4 of 4)	Figures to be updated to display the revised cable vault, transmission line and submarine cable placement, Appendix A. (Modification #1, 2, and 5)
Stage 1 Archaeological Assessment	Yes	2, 5, 7, 9, 10	Figures to be updated to display the revised cable vault, transmission line and submarine cable placement, Appendix A. (Modification #1, 2, and 5)
Stage 2 Archaeological Assessment	Yes	2, 8	Figures to be updated to display the revised cable vault, transmission line and submarine cable placement, Appendix A. (Modification #1, 2, and 5)
Underwater Archaeological Report	Yes	1	Figures to be updated to display the revised cable vault, transmission line and submarine cable placement, Appendix A. (Modification #1, 2 and 5)
Heritage Assessment Report	Yes	3, 5, 6, 8, 10, 12	Figures to be updated to display the revised cable vault, transmission line and submarine cable placement, Appendix A. (Modification #1, 2, and 5)
Protected Properties Assessment	Yes	3, 5, 6, 8, 10, 11	Figures to be updated to display the revised cable vault, transmission line and submarine cable placement, Appendix A. (Modification #1, 2, and 5)
Wind Turbine Specifications Report	No	n/a	There are no changes proposed to the turbines and this report will not require any modifications.
Noise Assessment Report (Appended to the Design and Operations Report)	No	n/a	No changes are being made to sources of noise for this project.
Property Line Setback Assessment	No	n/a	No changes are being made to the turbine locations for this project.

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Consultation
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3.0 Consultation

Consultation regarding the proposed modifications was undertaken with the Ministry of the Environment (MOE) via this Modification Document and as per a letter submitted to the MOE dated June 5, 2014 (Appendix B).

A copy of this Modification Document has been provided to the Ministry of Natural Resources (MNR) and Ministry of Tourism, Culture and Sport (MTCS) for their information. As there are no unassessed areas, and no new effects, we do not anticipate the need for new confirmation letters from these ministries.

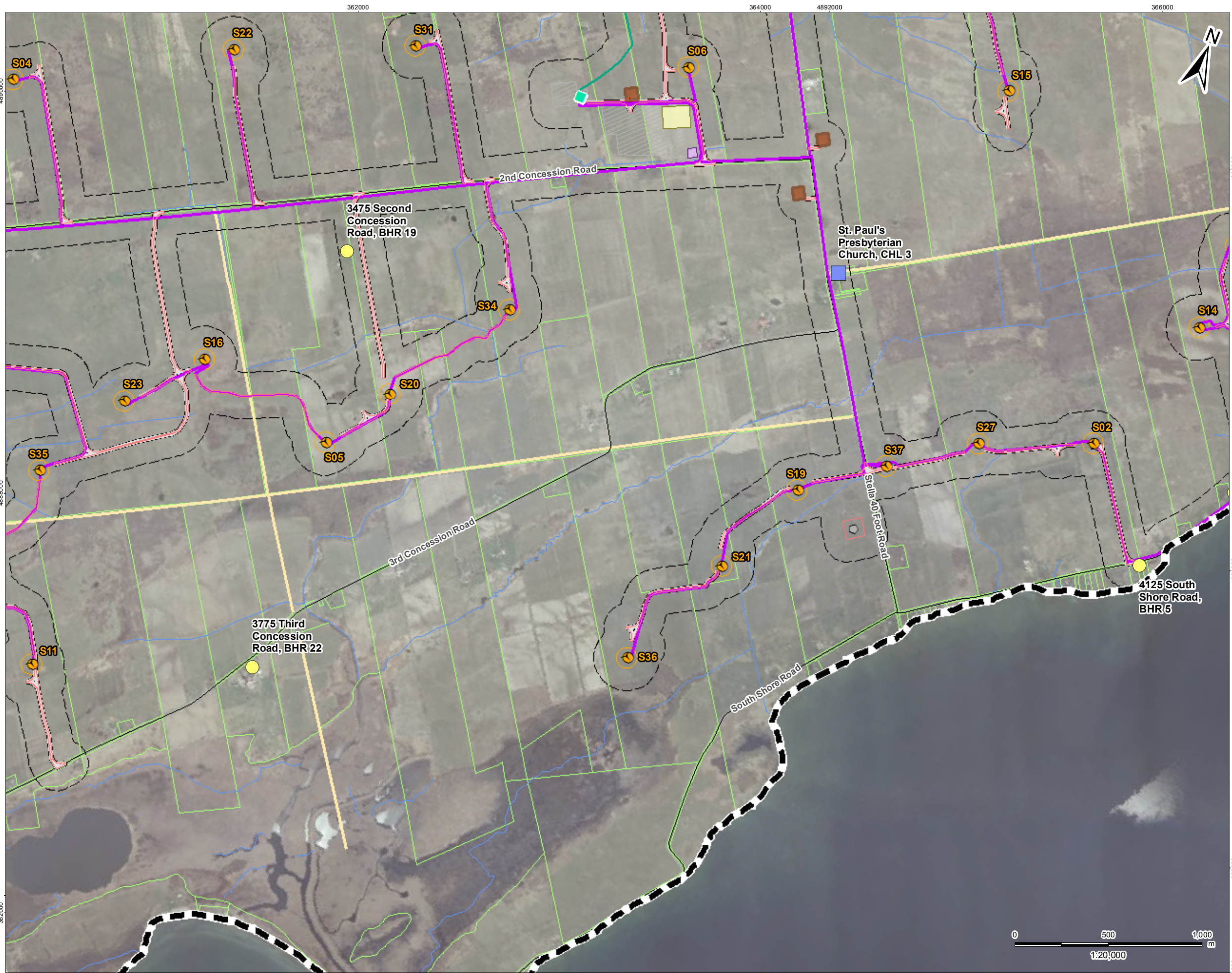
A copy of this Modification Document will be placed on the Project website, within a couple of weeks.

Within this time period, an electronic copy of this Modification Document will be provided to:

- Loyalist Township
- County of Lennox & Addington
- Mississaugas of Scugog Island First Nation
- Curve Lake First Nation – Mississaugas of Mud Lake Curve Lake
- Hiawatha First Nation – Mississaugas of Rice Lake
- Alderville First Nation – Mississaugas of Aderville
- Kawartha Nishnawbe First Nation
- Mohawks of the Bay of Quinte – Tyendinaga Mohawks Territory
- Williams Treaty First Nations

Appendix A: Figures

Appendix A1:
Heritage Assessment



- ### Legend
- Project Study Area
 - 120m Zone of Investigation
 - Built Heritage Resource
 - Protected Property
 - Cultural Heritage Landscape
 - Stone Fence
- ### Project Components
- Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Collector Lines
 - Access Road
 - Submarine Cable Path
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Turbine Blade Tips
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
 - Operation and Maintenance Building (Potential Location)
- ### Transmission Line
- Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- ### Land Use
- Central Staging Area
 - Switching Station (Potential Location)
- ### Existing Features
- Road
 - Unopened Road Allowance
 - Railway
 - Watercourse
 - Property Boundaries

- ### Notes
- Coordinate System: UTM NAD 83 - Zone 18 (N).
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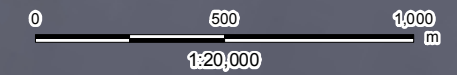
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AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
3

Title
Location of Built Heritage Resources
(Central Portion)





Legend

- AmherstIsle_Mapbook
- Project Study Area
- 120m Zone of Investigation
- Built Heritage Resource
- Protected Property
- Cultural Heritage Landscape
- Stone Fence
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)
- TransmissionLine**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Boundaries

Notes

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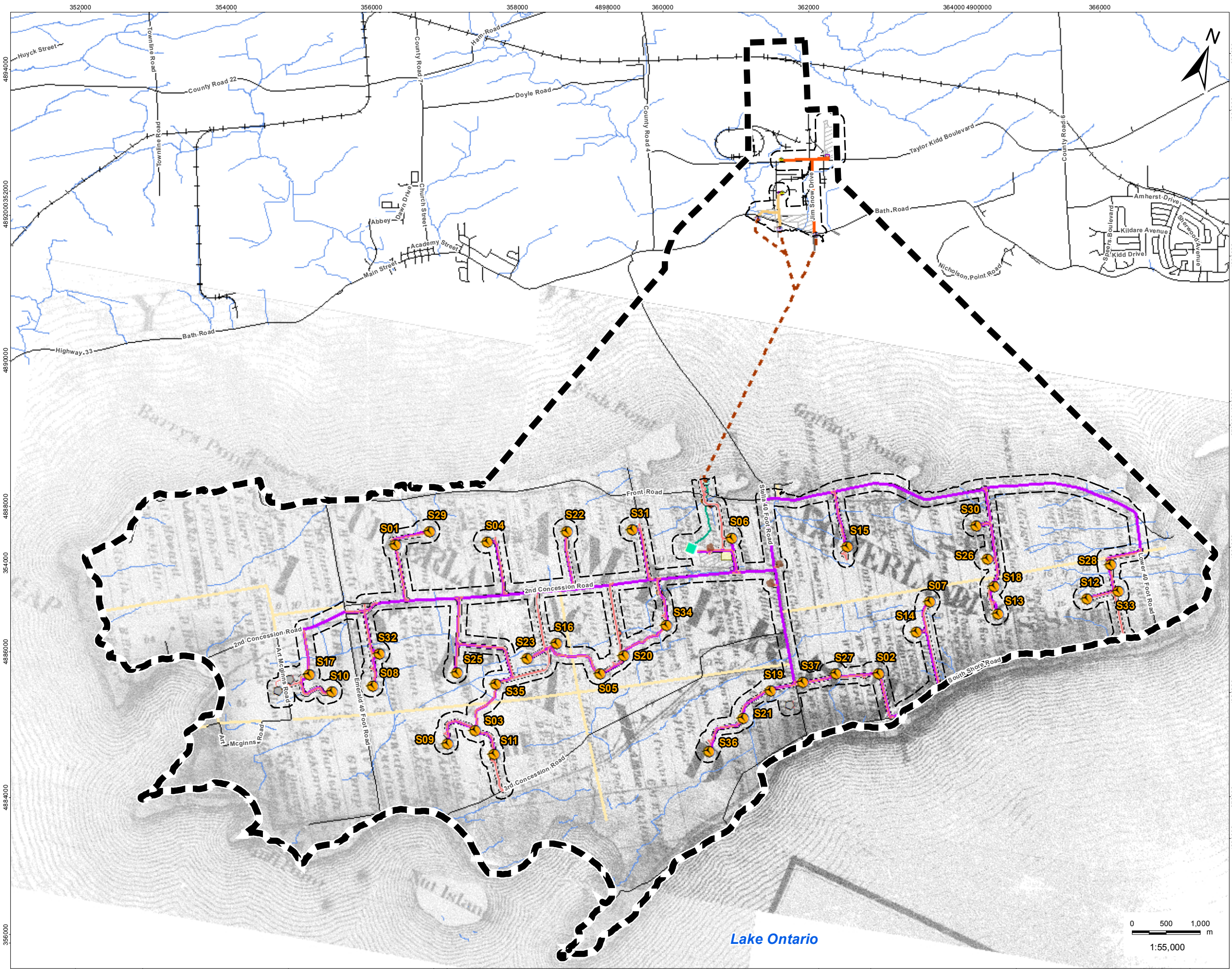
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Figure No.
5

Title
Location of Built Heritage Resources
(Mainland Portion)



Legend

Project Study Area

- 120m Zone of Investigation

Project Components

- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Laydown Area and Crane Pad
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)

TransmissionLine

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Land Use

- Central Staging Area
- Switching Station (Potential Location)

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse

Notes

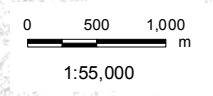
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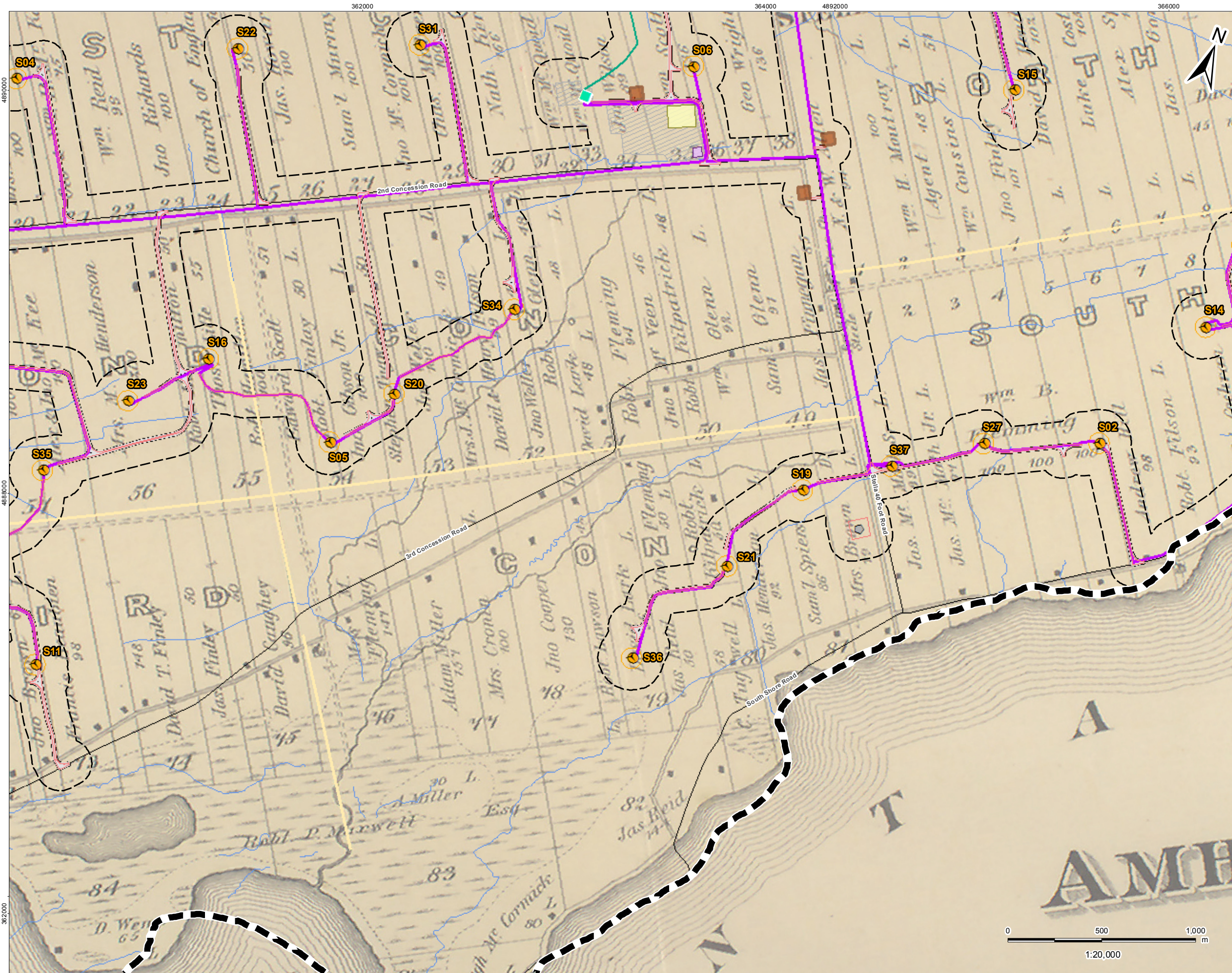


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Figure No.
6

Title
Walling's 1860 Historic Mapping of Amherst Island Overlaid by Project Components





Legend

- Project Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Laydown Area and Crane Pad
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)
- TransmissionLine**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse

Notes

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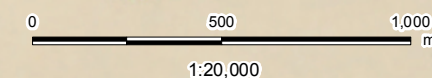
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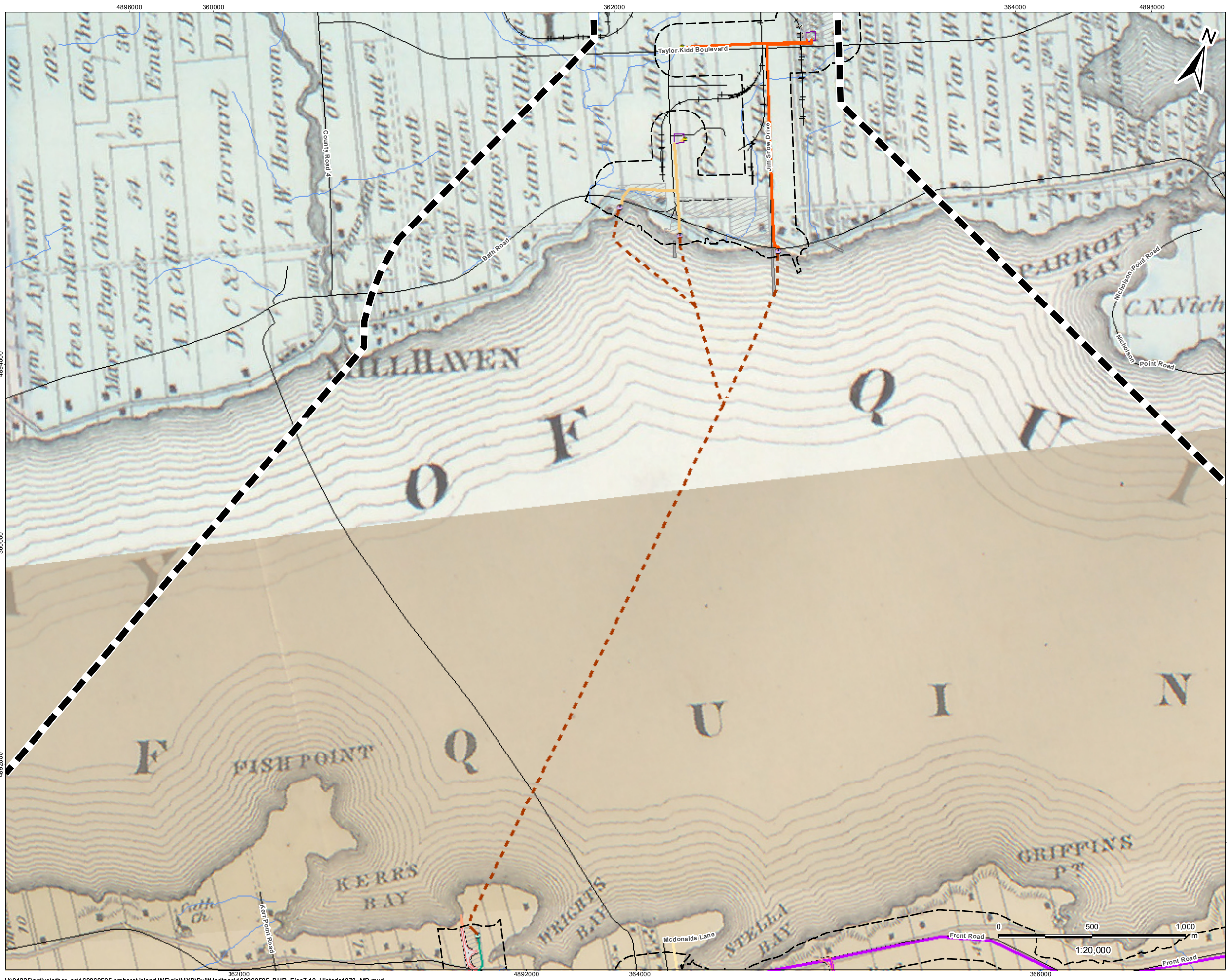
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Figure No.
8

Title
Meacham's 1878 Historic Mapping Overlaid
by Project Components (Central Portion)





Legend

Project Study Area
 120m Zone of Investigation

Project Components

- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Laydown Area and Crane Pad
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
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- Operation and Maintenance Building (Potential Location)

TransmissionLine

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Land Use

- Central Staging Area
- Switching Station (Potential Location)

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse

Notes

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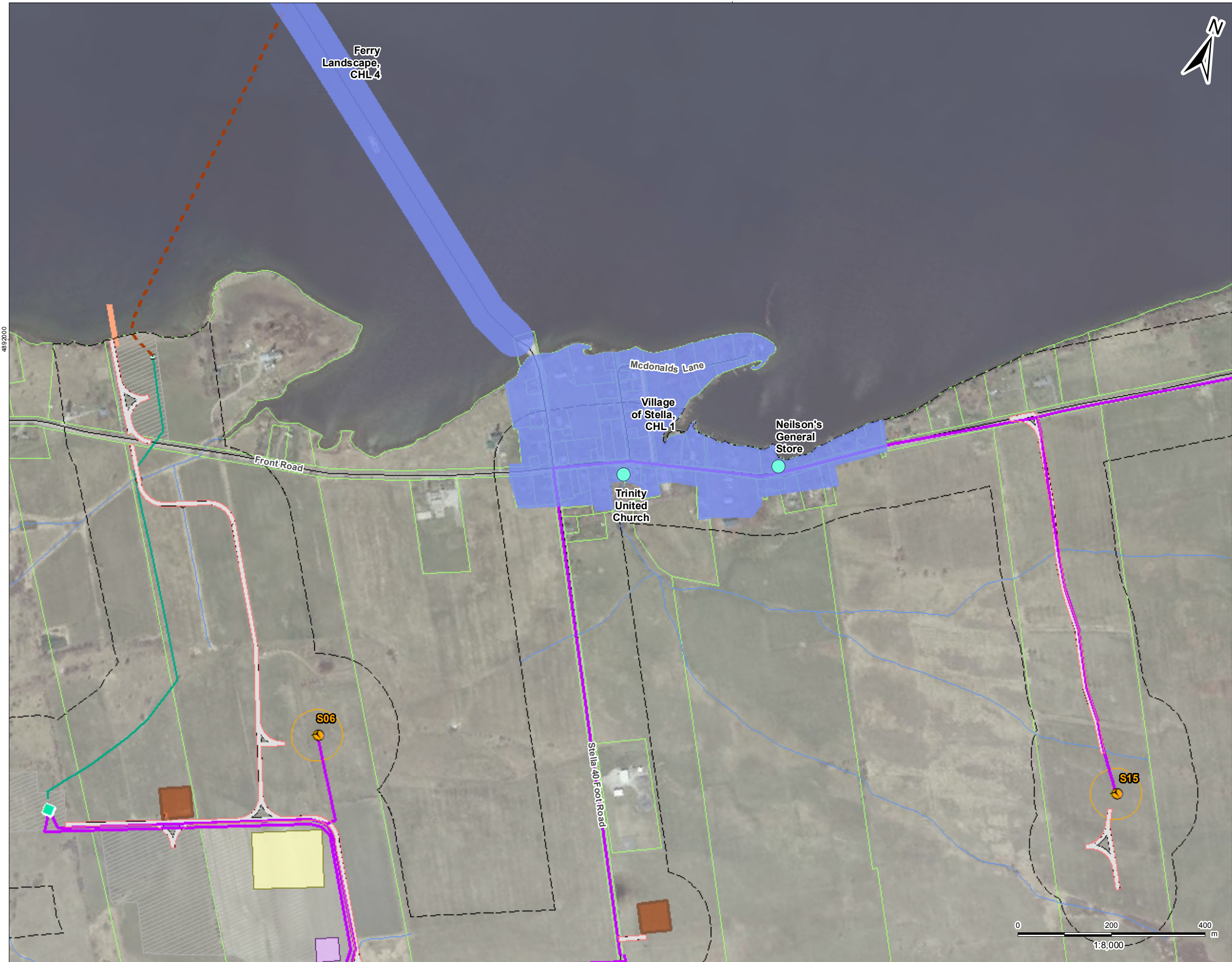
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Figure No.
10

Title

Meacham's 1878 Historic Mapping Overlaid
by Project Components (Mainland Portion)



Legend

- AmherstIsle_Mapbook
- Project Study Area
- 120m Zone of Investigation
- Built Heritage Resource
- Protected Property
- Cultural Heritage Landscape
- Stone Fence
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)
- TransmissionLine**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Boundaries

Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
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3. Imagery Source: First Base Solutions ©, 2008



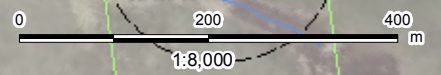
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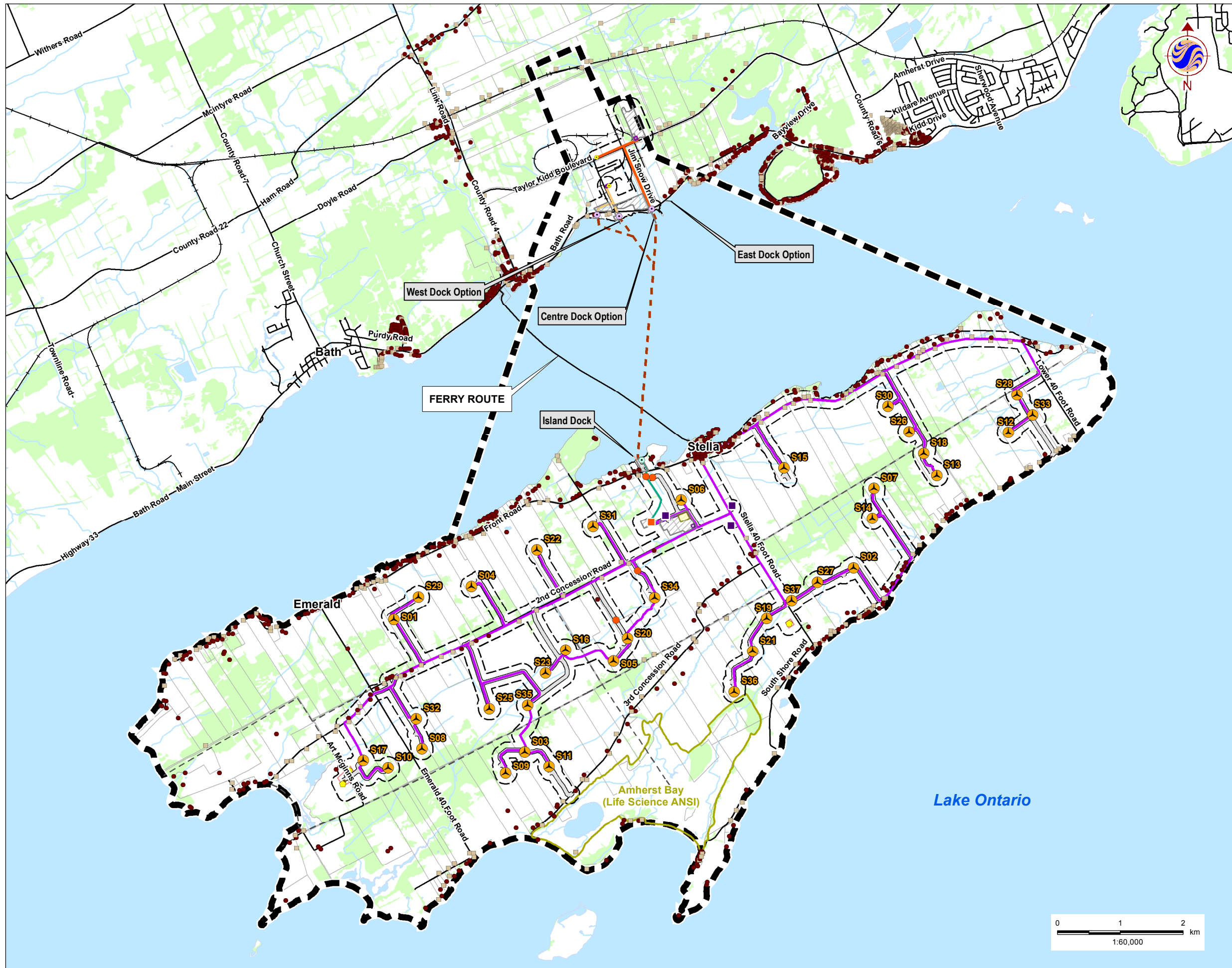
Figure No.
12

Title
Location of Built Heritage Resources
(Detail of the Village of Stella)



Appendix A2:

*Natural Heritage Assessment &
Environmental Impact Study*



Legend

- Project Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes

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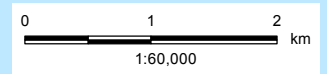
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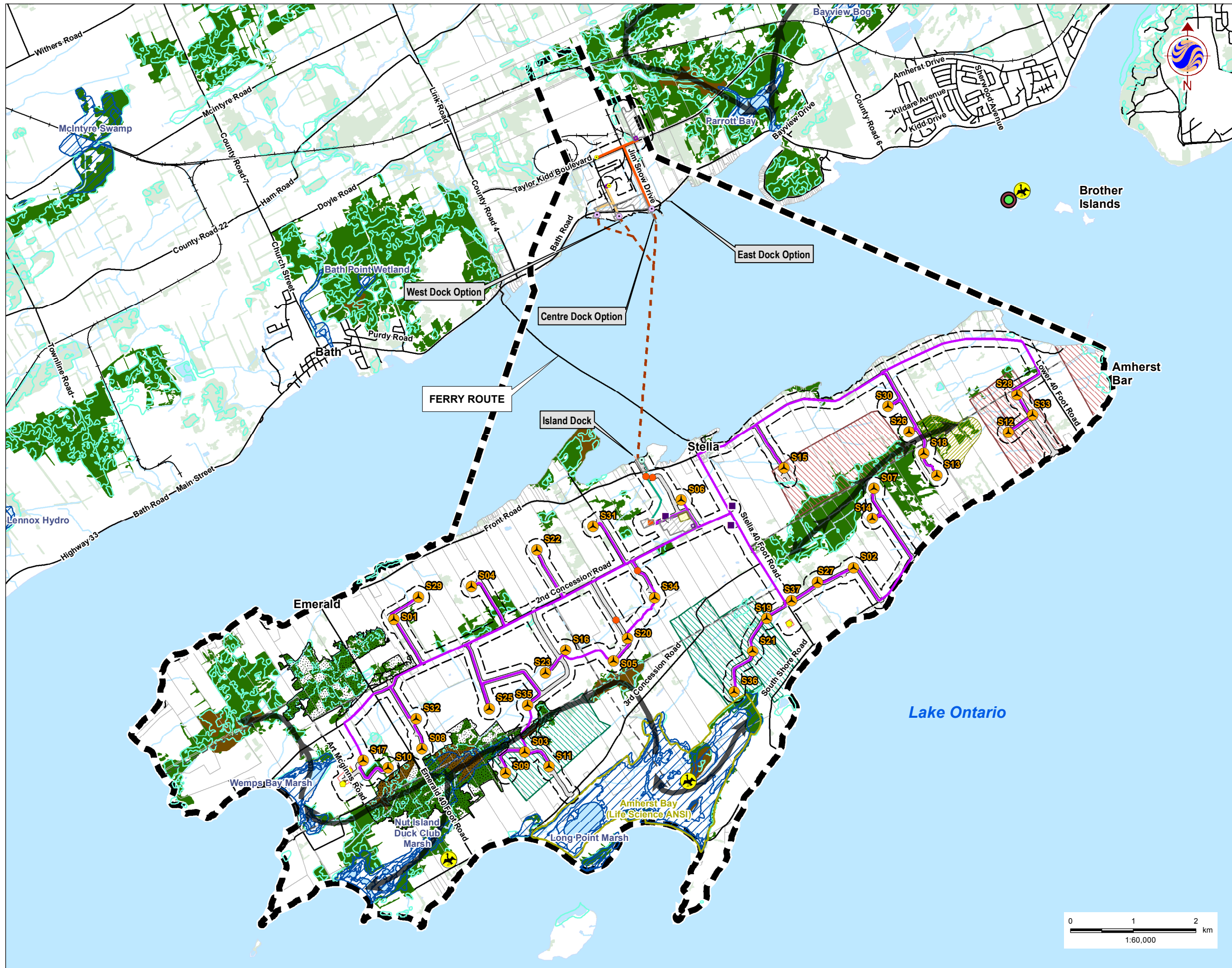
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Figure No.
1A

Title
Project Location & Study Area





Legend

Project Study Area

- 120m Zone of Investigation

Project Components

- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed

Transmission Lines

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Land Use

- Central Staging Area
- Switching Station (Potential Location)

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Waterbody
- Provincially Significant Wetland
- Unevaluated Wetland
- Woodlot
- Significant Woodlot
- ANSI Boundary
- Owl Woods
- Old Growth Woodlot
- Property Boundary
- Common Tern Nesting Site/Colony
- Herring Gull Nesting Site/Colony
- Wildlife Habitat Linkage
- Colonial Waterbirds Site
- Bald Eagle Nesting, Foraging, and Perching Habitat

Short-eared Owl Breeding Territory

- 2009
- 2010

Notes

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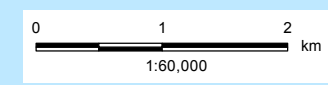
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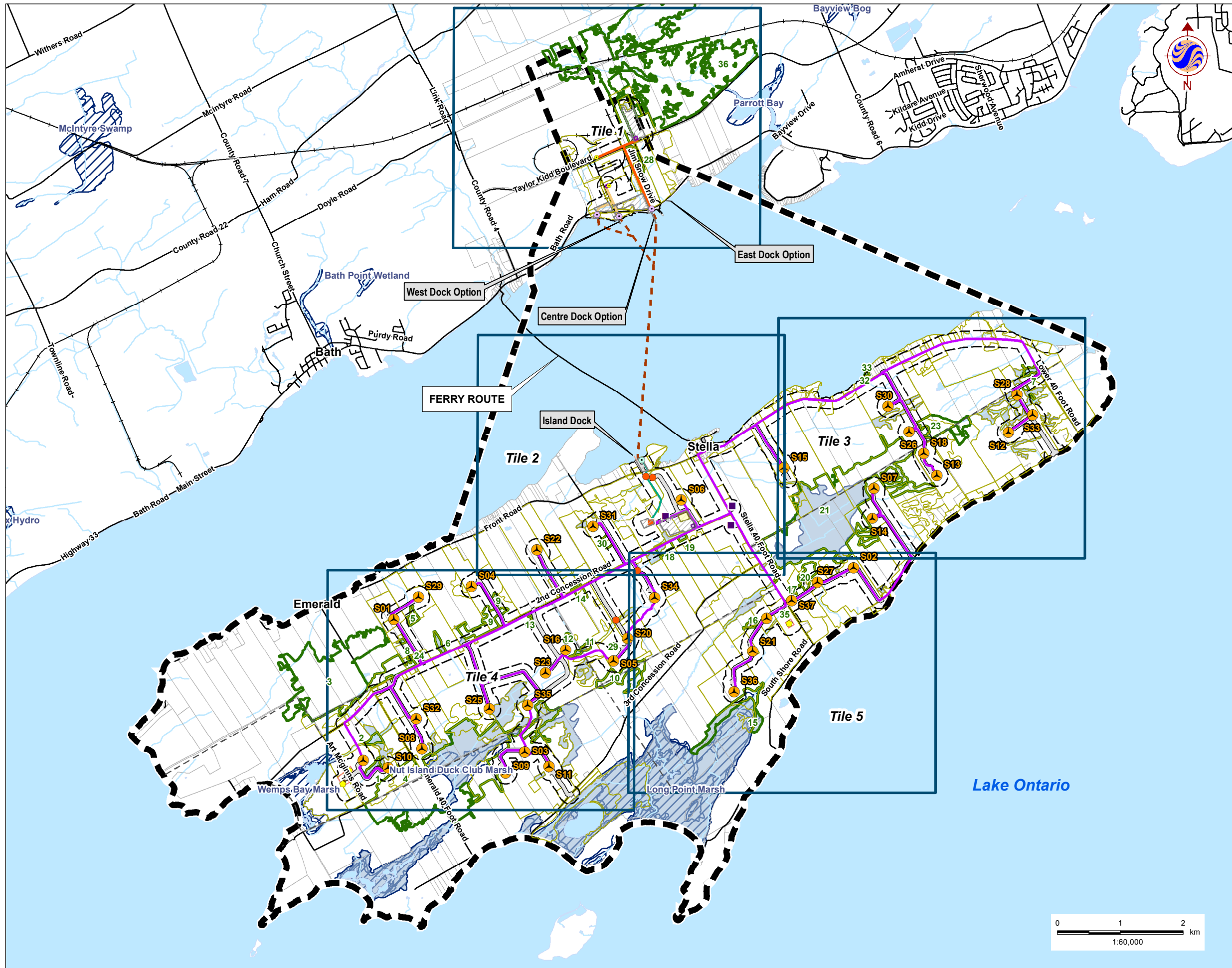
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Figure No.
1B

Title
Natural Features - Records Review





Legend

- Project Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Waterbody
- Property Boundary
- Provincially Significant Wetland (MNR)
- Woodland Delineation (Stantec)
- Wetland Delineation (Stantec)
- ELC Boundary

Notes

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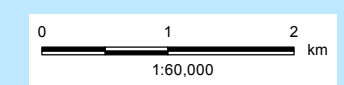
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Client/Project
**WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT**

Figure No.
2.0

Title
**ELC Vegetation Communities &
Woodland/Wetland Natural
Features - Overview**





Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Line
- Provincially Significant Wetland (MNR)
- Woodland Delineation (Stantec)
- Wetland Delineation (Stantec)
- ELC Boundary

Notes

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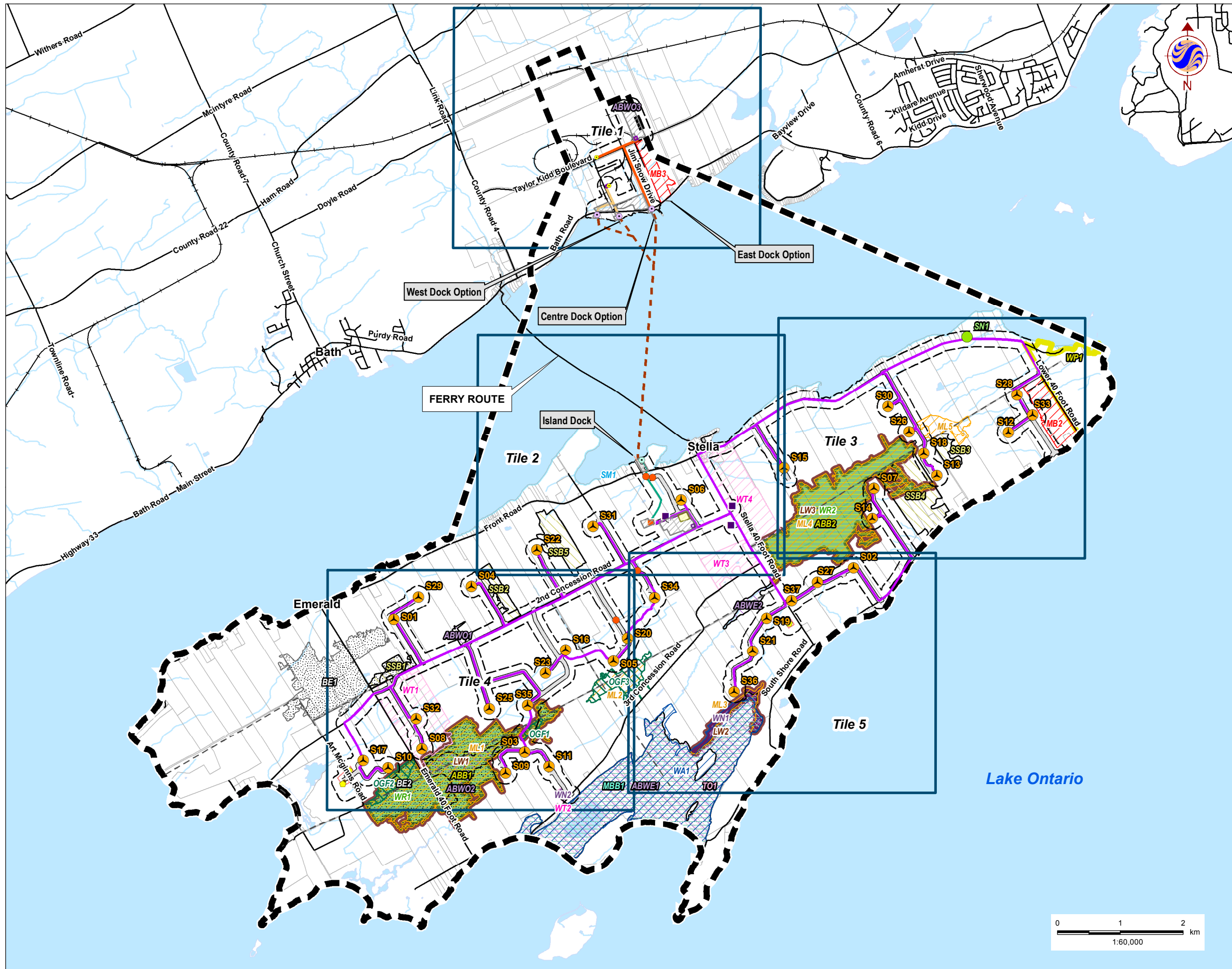
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AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
2.1

Title

ELC Vegetation Communities & Woodland/Wetland Natural Features





Legend

- Project Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Waterbody
- Property Boundary
- Candidate Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Louisiana Waterthrush Habitat (LW)
- Waterfowl Nesting Area (WN)
- Woodland Raptor Nesting Area (WR)
- Shorebird Migratory Stopover (SM)
- Wilson's Phalarope (WP)
- Bald Eagle Nesting, Foraging, and Perching Habitat (BE)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Colonially-Nesting Birds - Trees/Shrubs (CNB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Landbird Migratory Stopover Area (ML)
- Migratory Butterfly Stopover Area (MB)
- Waterfowl Stopover & Staging - Aquatic (WA)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)

Notes

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Figure No.
3.0

Title
Candidate Significant Natural Features & Wildlife Habitat - Overview



Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Line
- Candidate Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Louisiana Waterthrush Habitat (LW)
- Waterfowl Nesting Area (WN)
- Woodland Raptor Nesting Area (WR)
- Shorebird Migratory Stopover (SM)
- Bald Eagle Nesting, Foraging, and Perching Habitat (BE)
- Landbird Migratory Stopover Area (ML)
- Migratory Butterfly Stopover Area (MB)
- Waterfowl Stopover & Staging - Aquatic (WA)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)
- Wilson's Phalarope (WP)

Notes

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3. Imagery Source: First Base Solutions ©, 2012. Imagery Date: 2008.

* Distances shown between project components and habitats are provided in detail in Table 3.9 in the main report.



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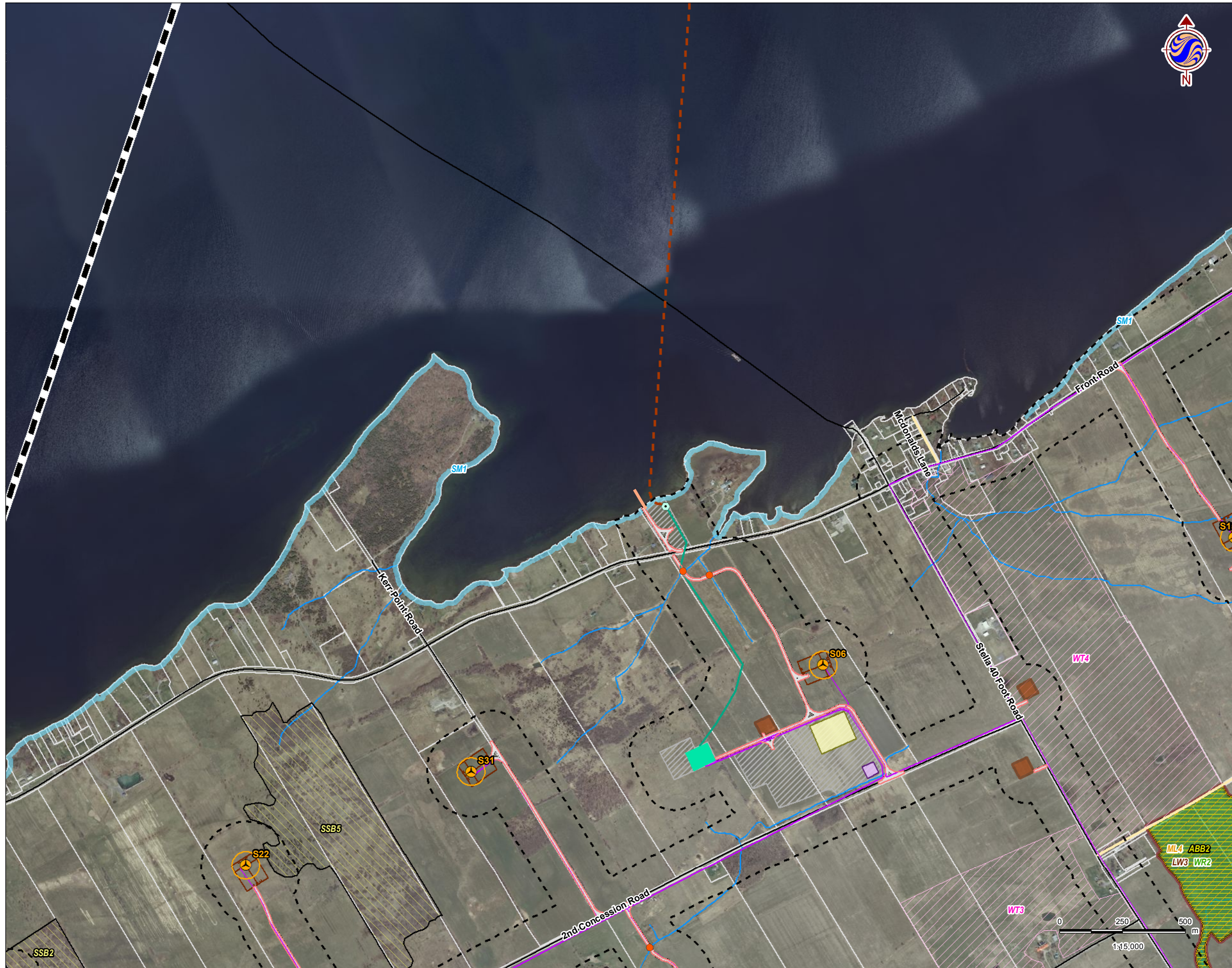
Figure No.

3.1

Title

Candidate Significant Natural Features & Wildlife Habitat





Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Line
- Candidate Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Louisiana Waterthrush Habitat (LW)
- Waterfowl Nesting Area (WN)
- Woodland Raptor Nesting Area (WR)
- Shorebird Migratory Stopover (SM)
- Bald Eagle Nesting, Foraging, and Perching Habitat (BE)
- Landbird Migratory Stopover Area (ML)
- Migratory Butterfly Stopover Area (MB)
- Waterfowl Stopover & Staging - Aquatic (WA)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)
- Wilson's Phalarope (WP)

Notes

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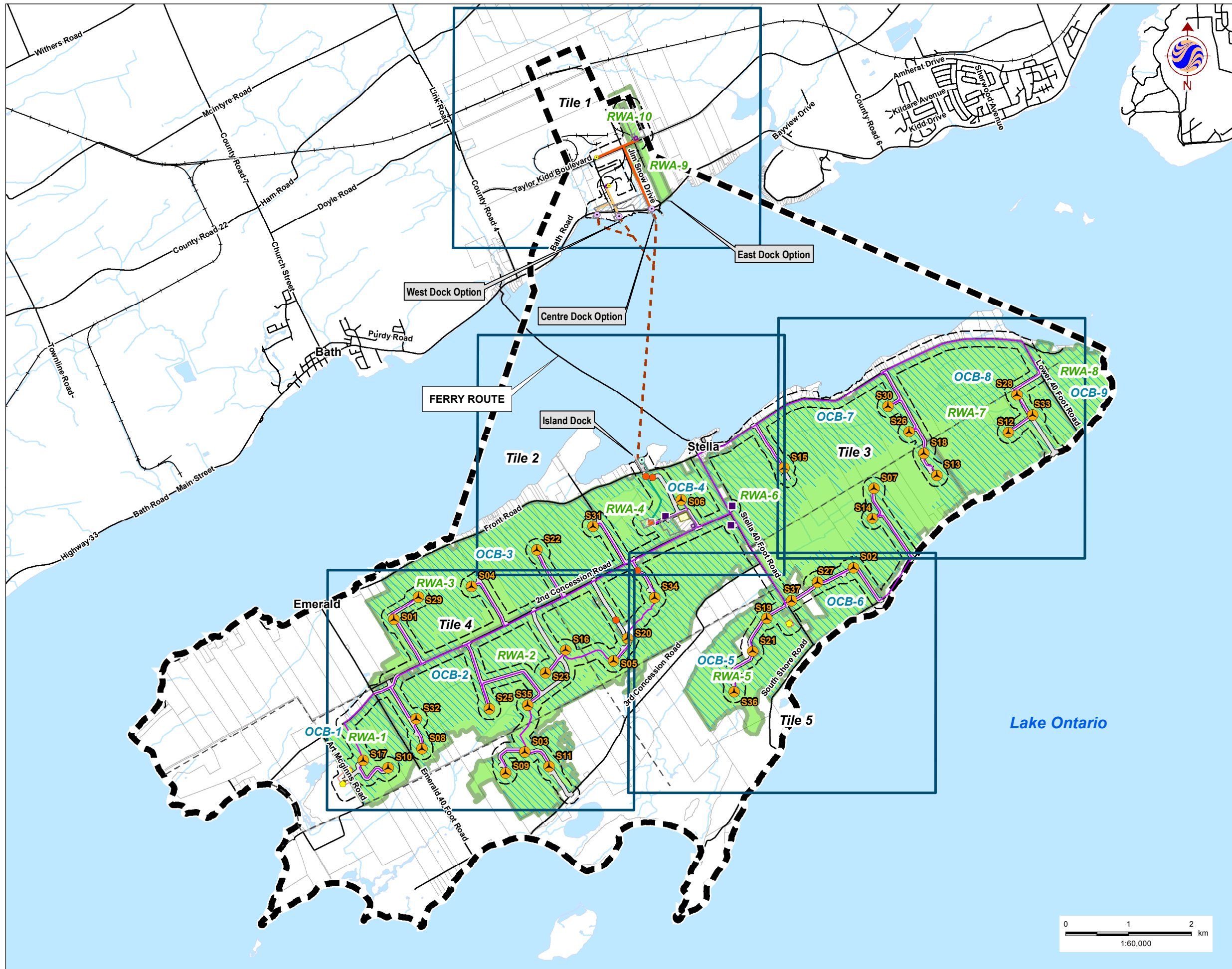
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Figure No.
3.2

Title

**Candidate Significant Natural
Features & Wildlife Habitat**



Legend

Project Study Area

- 120m Zone of Investigation

Project Components

- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed

Transmission Lines

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Land Use

- Central Staging Area
- Switching Station (Potential Location)

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Waterbody
- Property Boundary
- Open Country Breeding Bird Area (OCB) (OCB habitats are transparent with hatching)
- Raptor Wintering Area (RWA)

Notes

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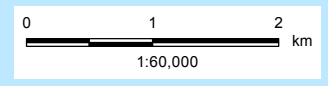


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Figure No.
4.0

Title
Candidate Open Country Breeding Bird & Raptor Wintering Areas - Overview





Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Line
- Open Country Breeding Bird Area (OCB)
(OCB habitats are transparent with hatching)
- Raptor Wintering Area (RWA)

Notes

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3. Imagery Source: First Base Solutions ©, 2012. Imagery Date: 2008.

* Distances shown between project components and habitats are provided in detail in Table 3.9 in the main report.



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Figure No.

4.1

Title

**Candidate Open Country Breeding
Bird & Raptor Wintering Areas**



Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Line
- Open Country Breeding Bird Area (OCB)
(OCB habitats are transparent with hatching)
- Raptor Wintering Area (RWA)

Notes

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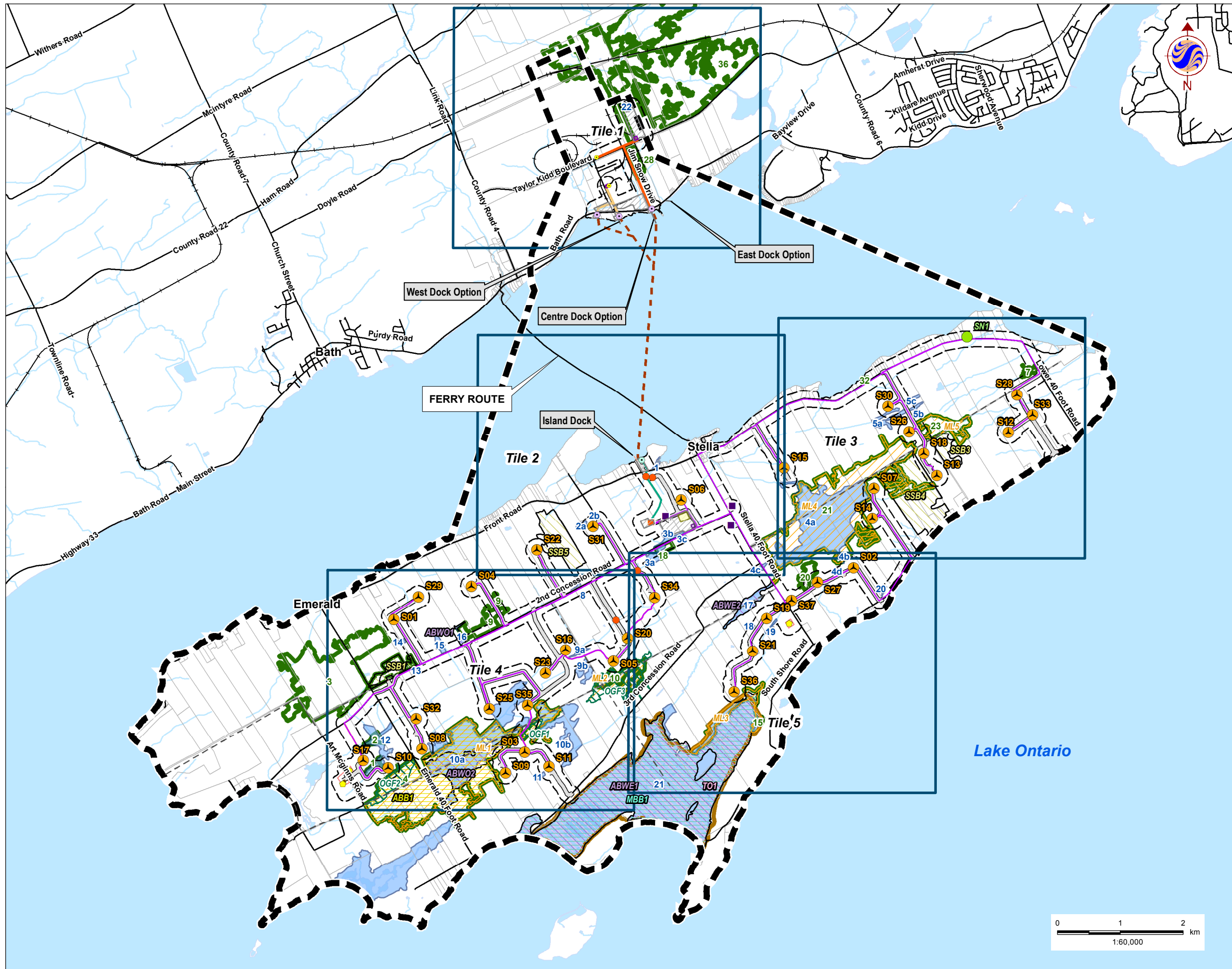
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Figure No.

4.2

Title

**Candidate Open Country Breeding
Bird & Raptor Wintering Areas**



Legend

- Project Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Waterbody
- Amherst Bay Life Science ANSI
- Property Boundary
- Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Landbird Migratory Stopover Area (ML)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)
- Significant Woodland
- Significant Wetland

Notes

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Figure No.

5.0

Title

Significant Natural Features & Wildlife Habitat - Overview



Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Amherst Bay Life Science ANSI
- Property Line
- Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Shorebird Migratory Stopover (SM)
- Landbird Migratory Stopover Area (ML)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)
- Significant Woodland
- Significant Wetland

Notes

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3. Imagery Source: First Base Solutions ©, 2012. Imagery Date: 2008.

* Distances shown between project components and habitats are provided in detail in Table 3.9 in the main report.



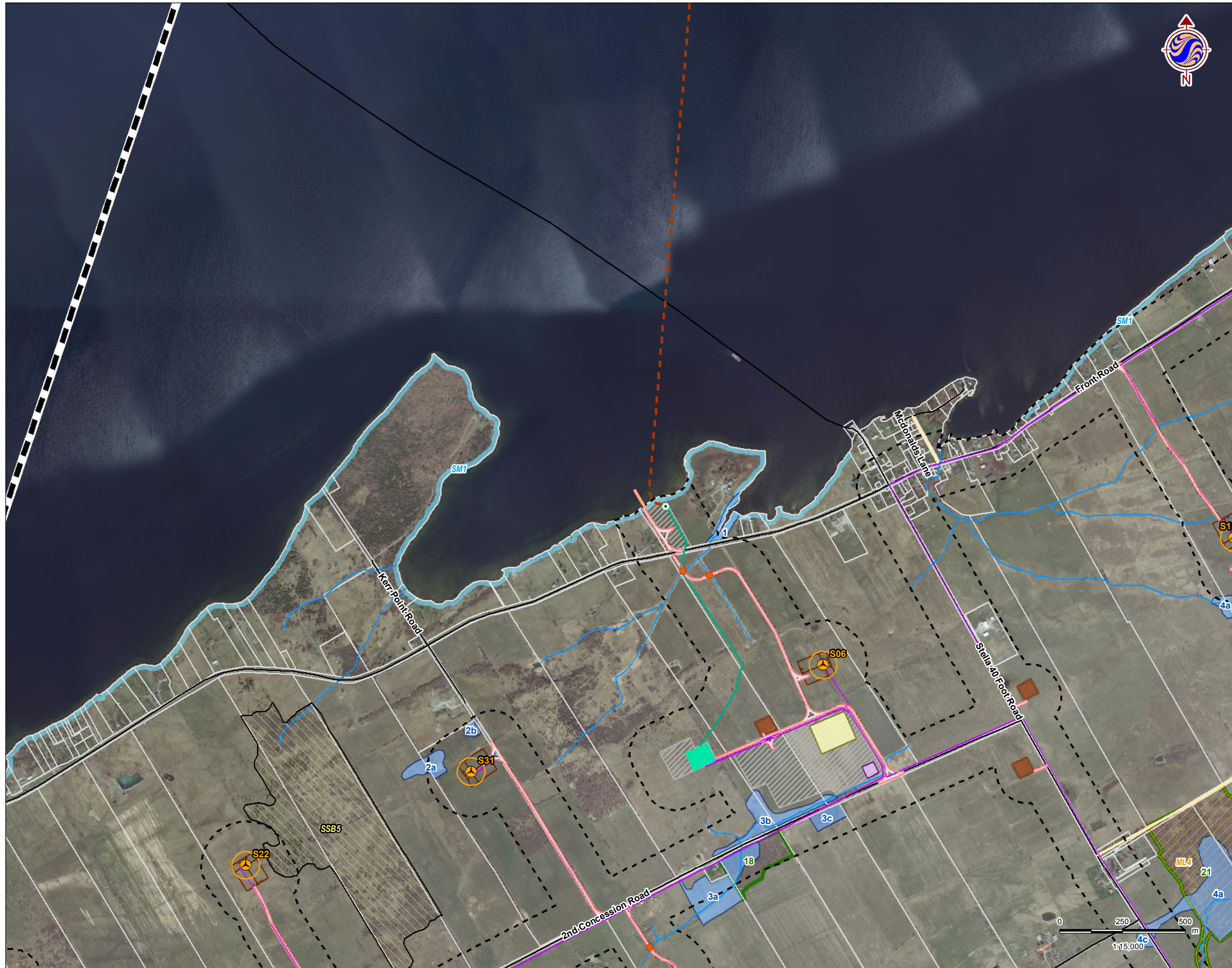
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Figure No.
5.1

Title
Significant Natural Features & Wildlife Habitat



Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Amherst Bay Life Science ANSI
- Property Line
- Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Shorebird Migratory Stopover (SM)
- Landbird Migratory Stopover Area (ML)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)
- Significant Woodland
- Significant Wetland

- Notes**
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 3. Imagery Source: First Base Solutions ©, 2012. Imagery Date: 2008.
- * Distances shown between project components and habitats are provided in detail in Table 3.9 in the main report.



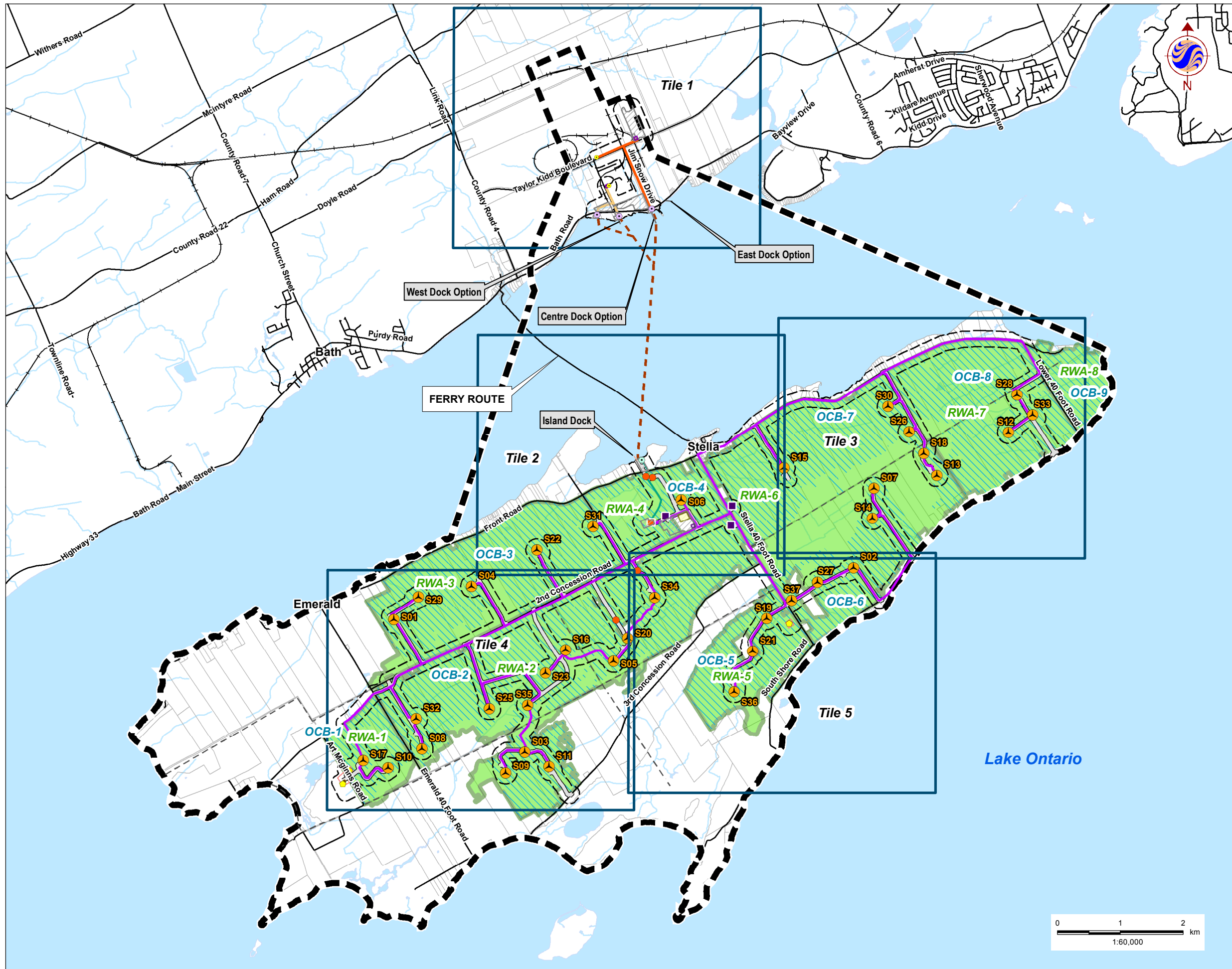
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Figure No.
5.2

Title
**Significant Natural Features &
Wildlife Habitat**



Legend

- Project Study Area
- 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road
 - Collector Lines
 - Submarine Cable Path
 - Operation and Maintenance Building (Potential Location)
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
 - Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
 - Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
 - Existing Features**
 - Road
 - Unopened Road Allowance
 - Railway
 - Watercourse
 - Waterbody
 - Property Boundary
 - Open Country Breeding Bird Area (OCB)
 - OCB habitats are transparent with hatching
 - Raptor Wintering Area (RWA)

Notes

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Figure No.
6.0

Title
Significant Open Country Breeding Bird & Raptor Wintering Areas



Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Line
- Open Country Breeding Bird Area (OCB)
(OCB habitats are transparent with hatching)
- Raptor Wintering Area (RWA)

Notes

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3. Imagery Source: First Base Solutions ©, 2012. Imagery Date: 2008.

* Distances shown between project components and habitats are provided in detail in Table 3.9 in the main report.



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Figure No.

6.1

Title

Significant Open Country Breeding Bird & Raptor Wintering Areas





Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Line
- Open Country Breeding Bird Area (OCB)
(OCB habitats are transparent with hatching)
- Raptor Wintering Area (RWA)

Notes

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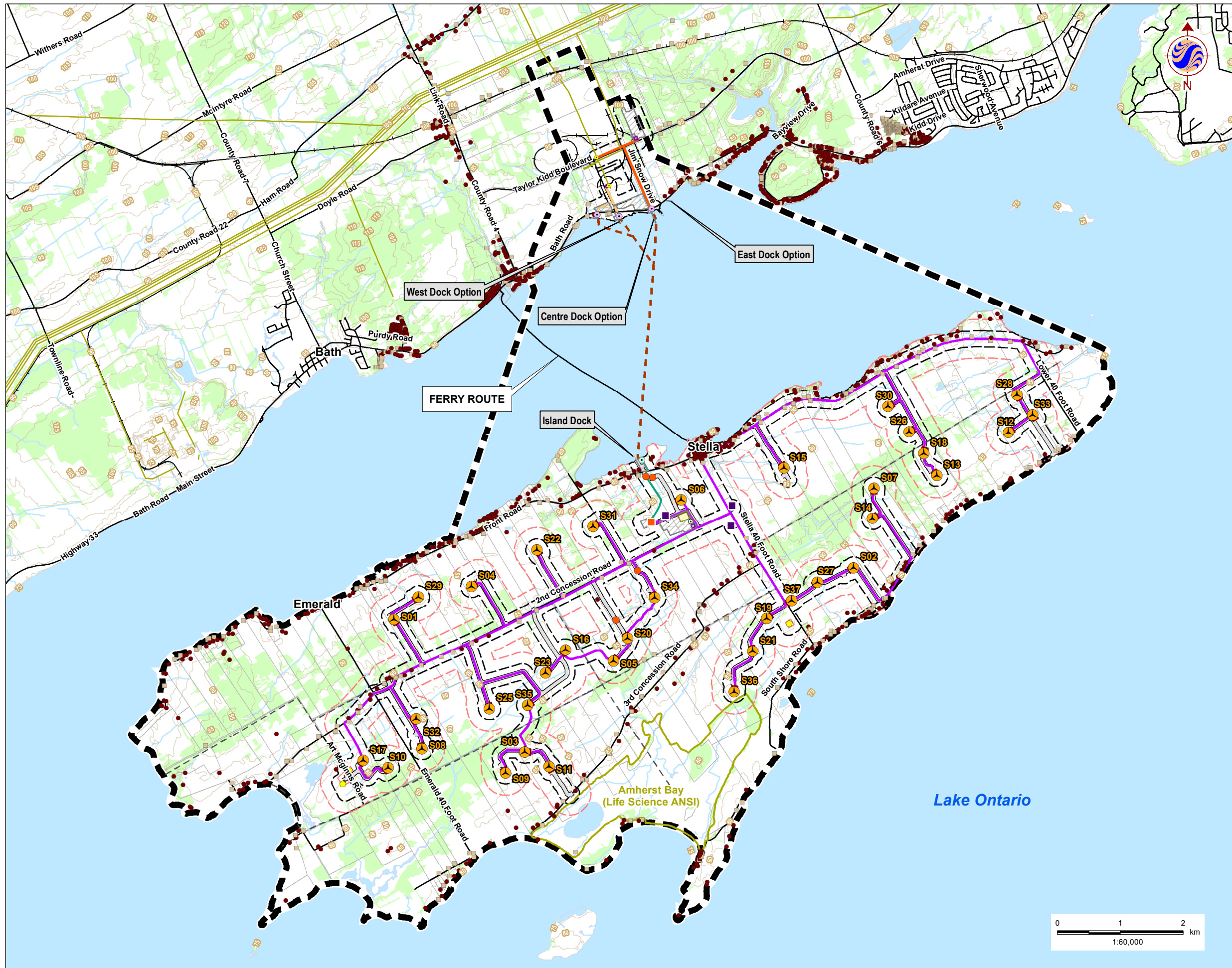
Figure No.

6.2

Title

Significant Open Country Breeding Bird & Raptor Wintering Areas

Appendix A3:
Project Description Report



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes

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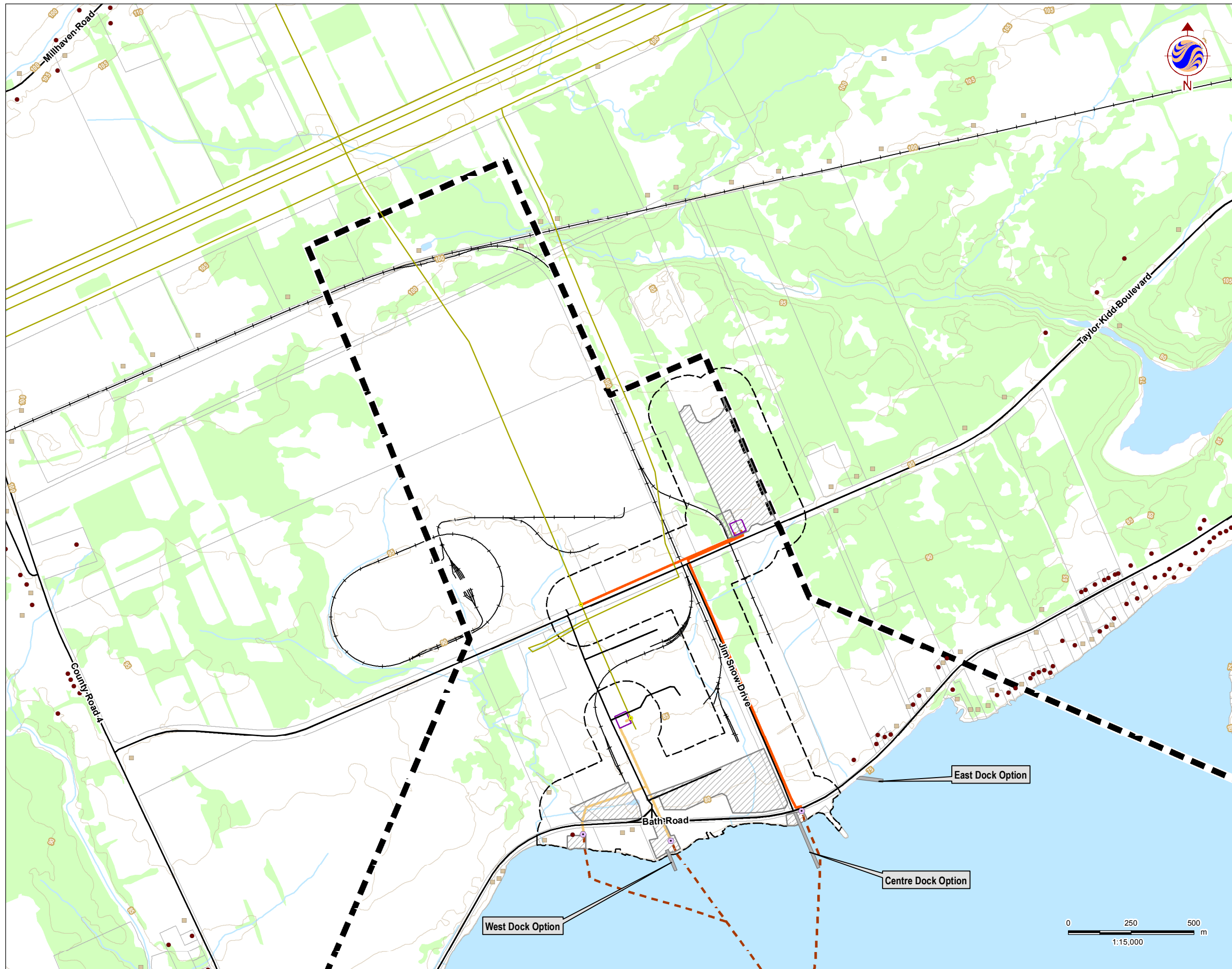
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Figure No.

1

Title

Project Location & Study Area



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes

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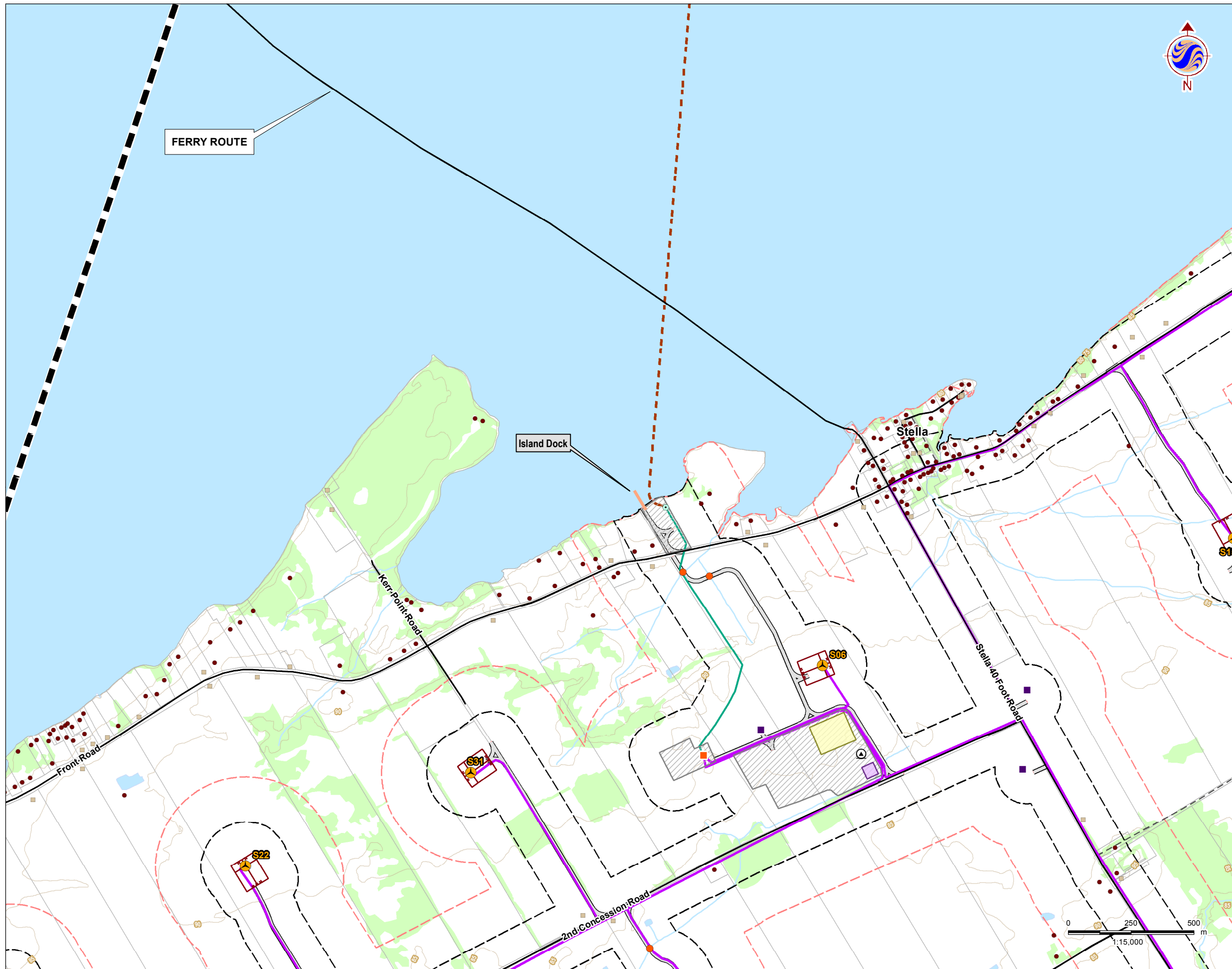
Figure No.

1.1

Title

Project Location & Study Area

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Revised: 2014-04-08 By: pworsell



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes

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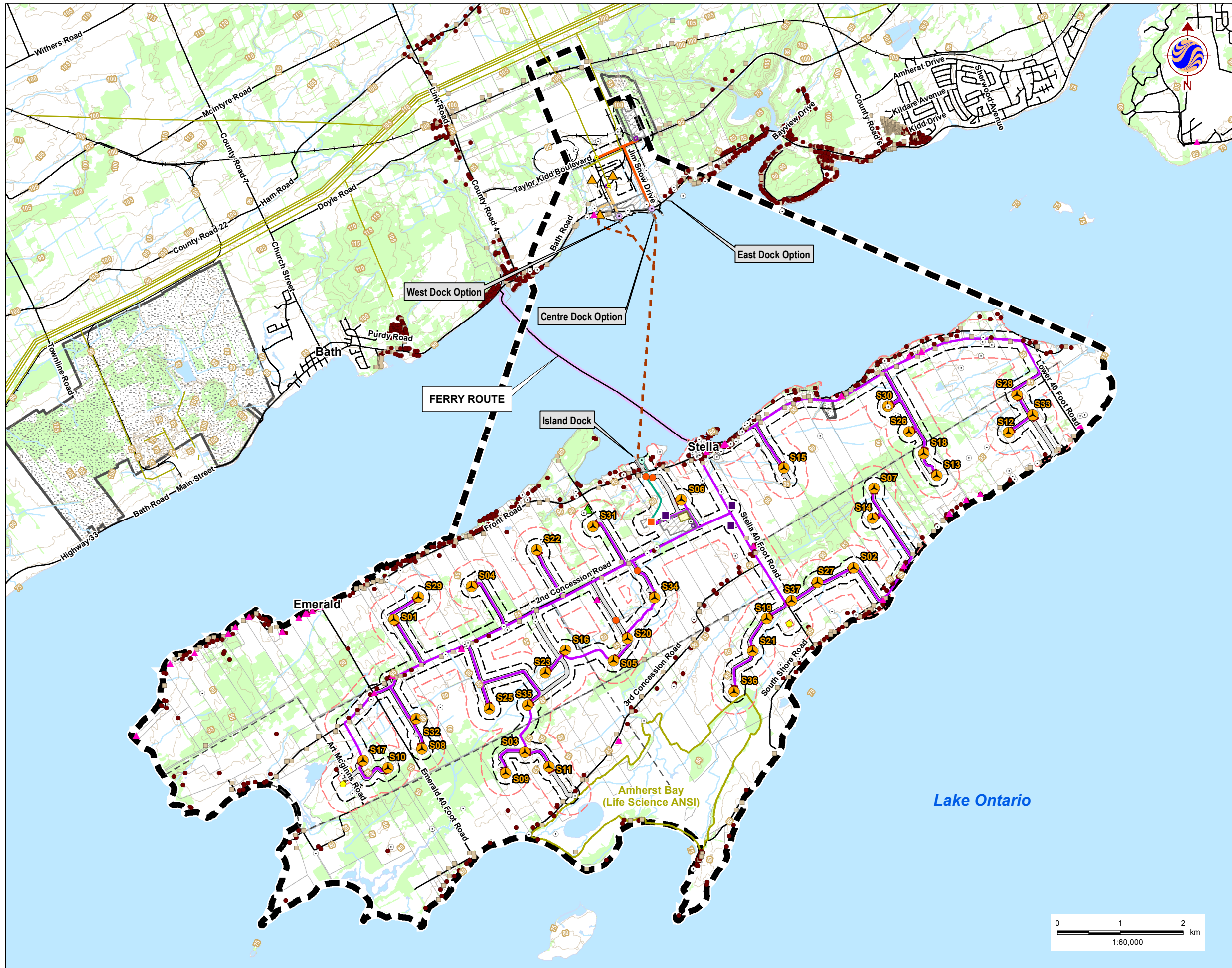
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Figure No.

1.2

Title

Project Location & Study Area



Legend

- Project Study
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road
 - Collector Lines
 - Submarine Cable Path
 - Laydown Area and Crane Path
 - Operation and Maintenance Building (Potential Location)
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Aboveground Storage Tanks (Potential Location)
- Constructible
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- Land Use**
 - Central Staging
 - Switching Station (Potential Location)
- Noise Receptors**
 - Existing
 - Vacant
- Existing Features**
 - Road
 - Unopened Road
 - Allowance
 - Railway
 - Elevation Contour (metres ASL)
 - Hydro Line
 - Watercourse
 - Waterbody
 - Wooded Area
 - Aggregate Site - Active
 - ANSI Boundary
 - Property Boundary
 - Landfill - Active
 - Landfill - Closed
 - Water Well Record
 - Built Heritage Resource
 - Ferry Landscape
 - Village of Stella



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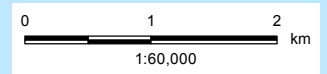
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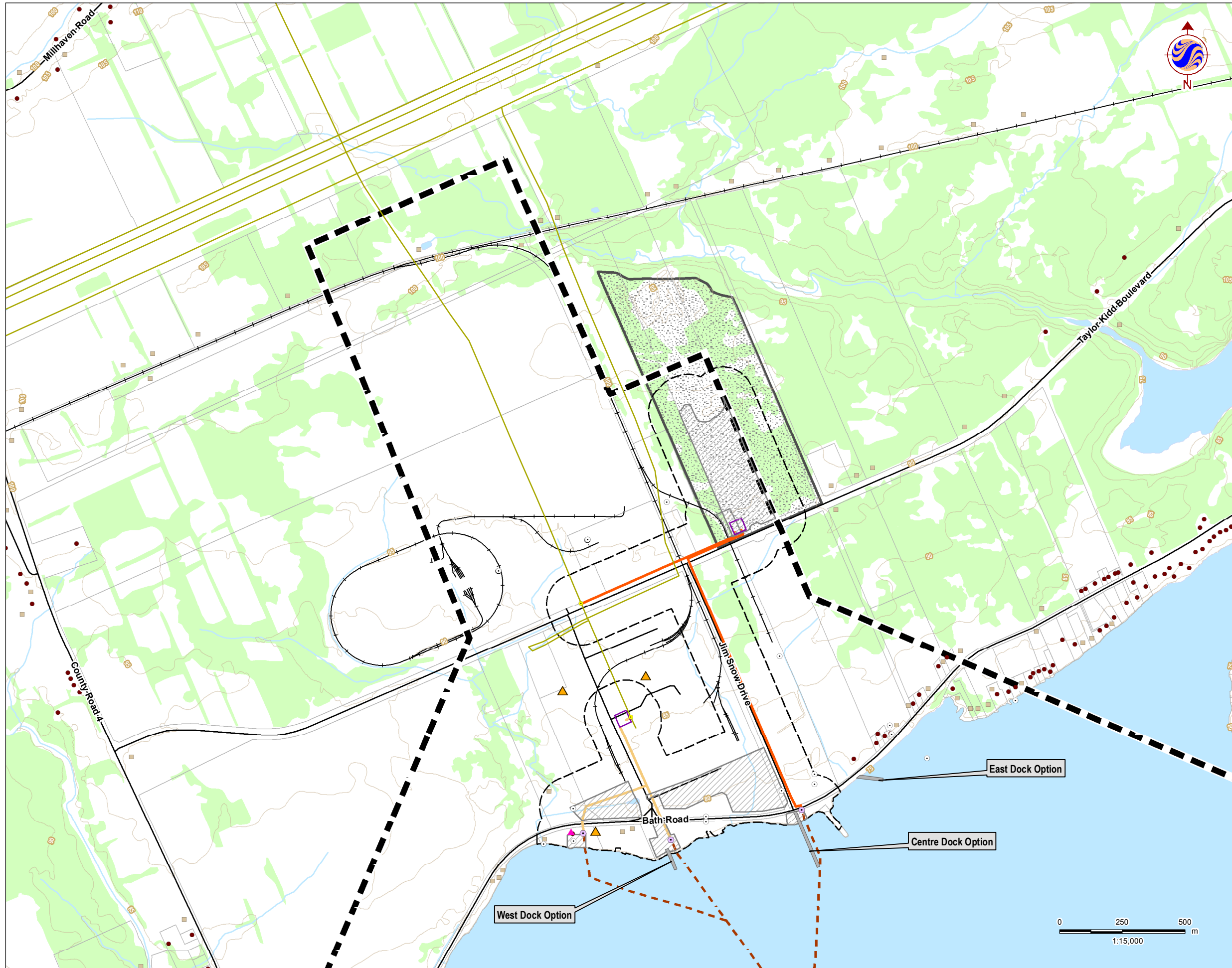
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Figure No.
 2

Title
Socio-Economic Features - Overview





Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road
- Allowance
- Railway
- Elevation Contour (metres ASL)
- Watercourse
- Hydro Line
- Waterbody
- Wooded Area
- Aggregate Site - Active
- ANSI Boundary
- Property Boundary
- Water Well Record
- Built Heritage Resource
- Ferry Landscape
- Village of Stella
- Landfill - Active
- Landfill - Closed

Notes

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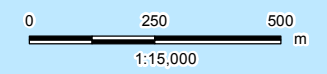
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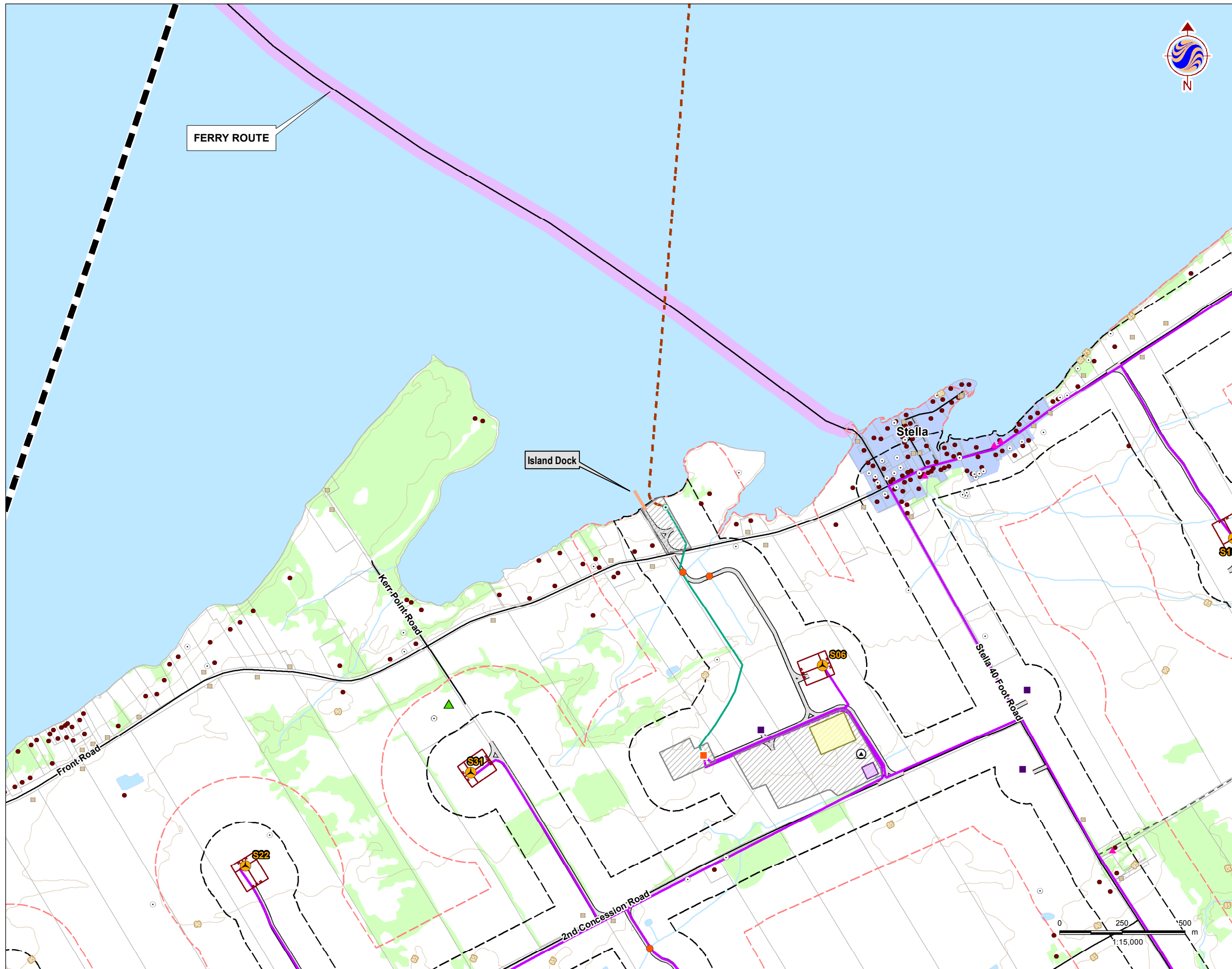
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AMHERST ISLAND WIND ENERGY PROJECT**

Figure No.
2.1

Title
Socio-Economic Features





Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road
 - Collector Lines
 - Submarine Cable Path
 - Laydown Area and Crane Path
 - Operation and Maintenance Building (Potential Location)
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Aboveground Storage Tanks (Potential Location)
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
 - Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
 - Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
- Noise Receptors**
 - Existing
 - Vacant
- Existing Features**
 - Road
 - Unopened Road
 - Railway
 - Elevation Contour (metres ASL)
 - Watercourse
 - Hydro Line
 - Waterbody
 - Wooded Area
 - Aggregate Site - Active
 - ANSI Boundary
 - Property Boundary
 - Water Well Record
 - Built Heritage Resource
 - Ferry Landscape
 - Village of Stella
 - Landfill - Active
 - Landfill - Closed

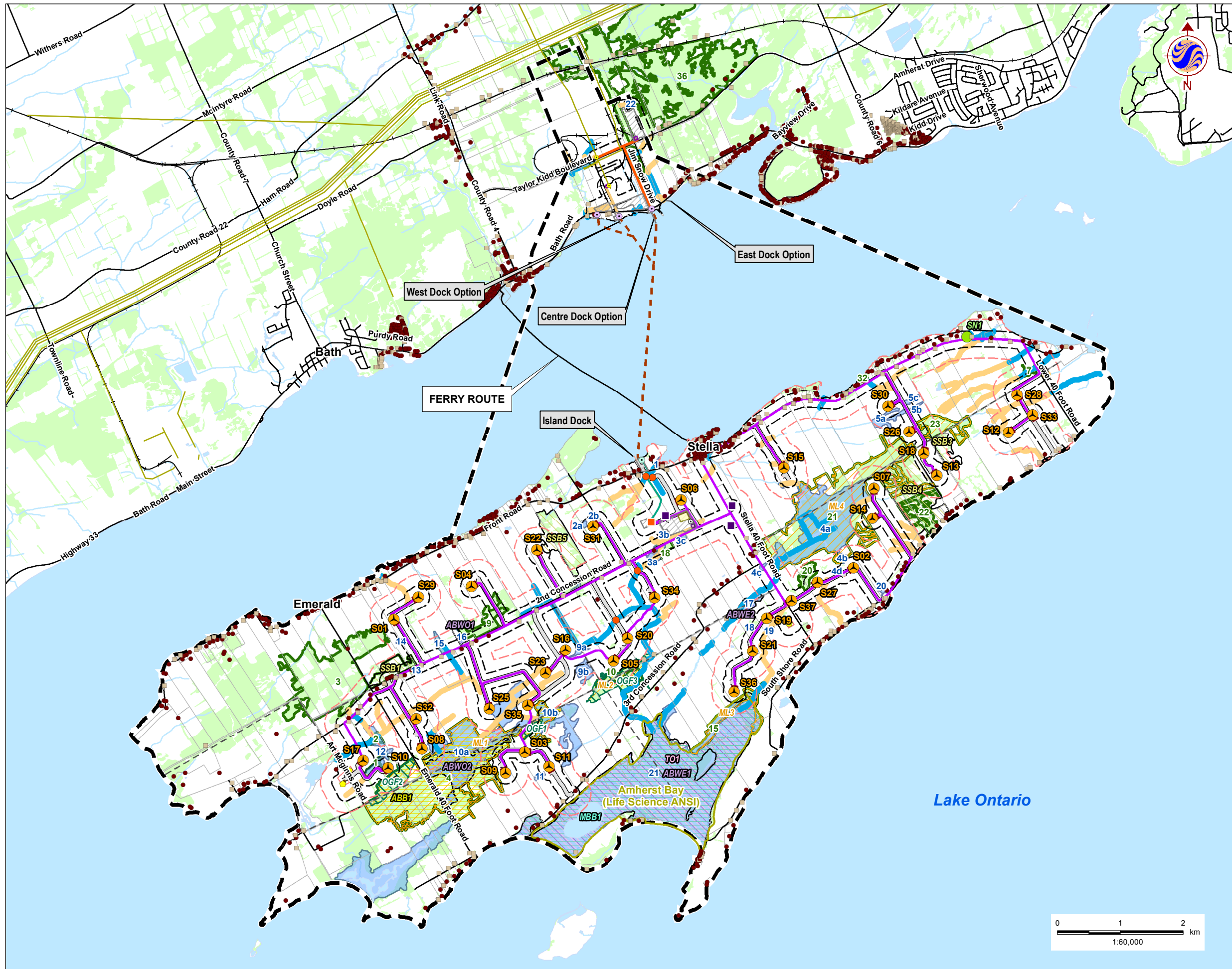


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Figure No.
 2.2

Title
Socio-Economic Features



Legend

	Project Study Area		Noise Receptors Existing
	300m Zone of Investigation		Vacant
	120m Zone of Investigation		Existing Features Road
	Turbine		Unopened Road
	Met Tower (Potential Location)		Allowance
	Substation (Potential Location)		Railway
	Access Road		Hydro Line
	Collector Lines		Watercourse
	Submarine Cable Path		Waterbody
	Laydown Area and Crane Path		Wooded Area
	Operation and Maintenance Building (Potential Location)		ANSI Boundary
	Potential Culvert Location		Property Boundary
	Point of Common Coupling		REA Status REA Water Body
	Mainland Cable Vault (Potential Location)		Not a REA Water Body
	Island Cable Vault		Significant Wildlife Habitat Features Snake Hibernacula (SN)
	Aboveground Storage Tanks (Potential Location)		Amphibian Breeding (ABWO & ABWE)
	Constructible Area		Area-Sensitive Breeding Bird (ABB)
	Mainland Dock (Potential Location)		Marsh Breeding Bird (MBB)
	Island Dock		Shrub/Early Successional Bird Breeding (SSB)
	Batch Plant (Potential Location)		Turtle Overwintering (TO)
	Site Office (Potential Location)		Landbird Migratory Stopover Area (ML)
	Storage Shed		Waterfowl Stopover & Staging - Terrestrial (WT)
	Mainland Option 1		Old Growth Forest (OGF)
	Mainland Option 2		Significant Woodland
	Island Transmission Line		Significant Wetland
	Central Staging Area		
	Switching Station (Potential Location)		

Notes

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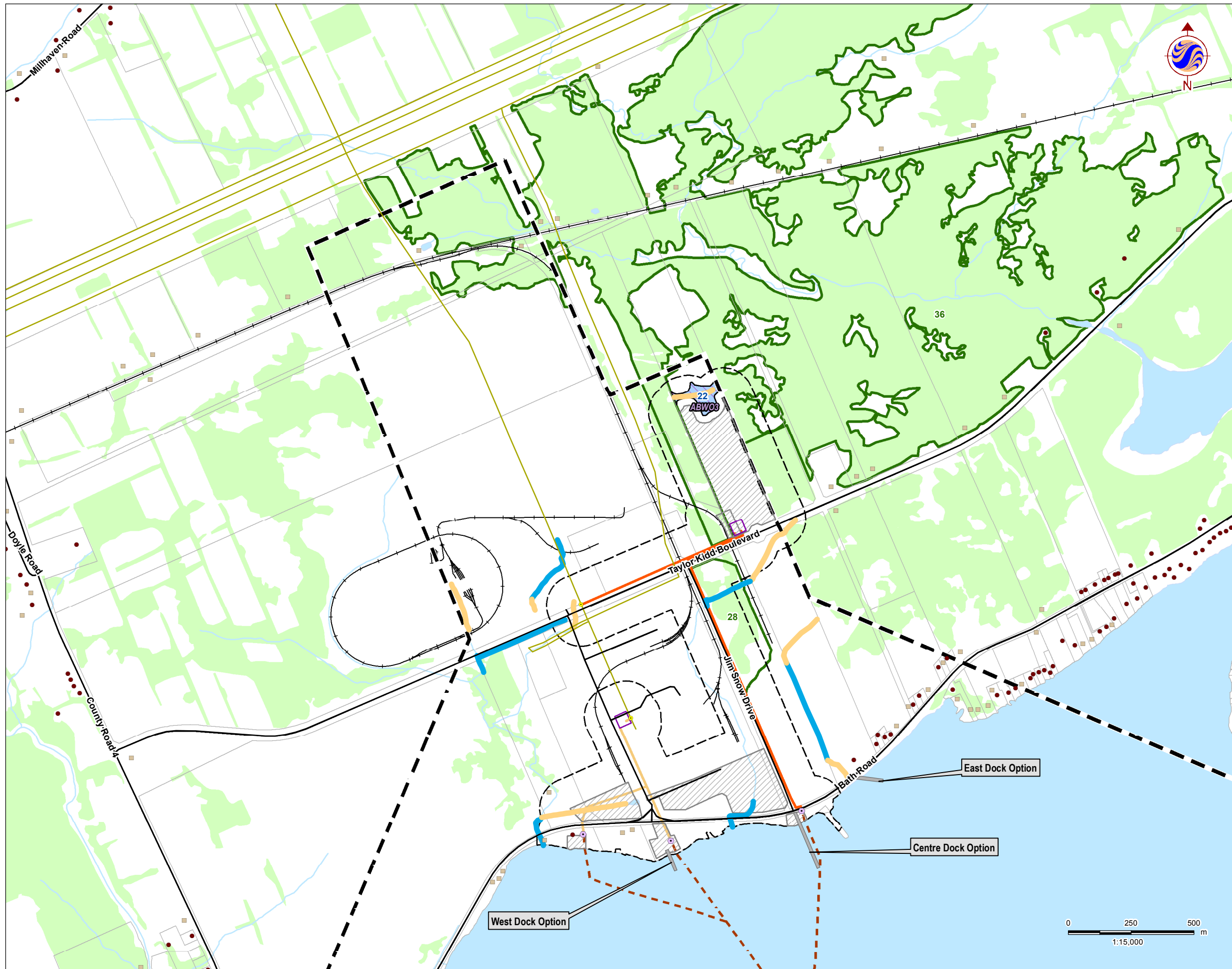
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AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
3

Title
**Significant Natural Features,
Wildlife Habitat and Waterbodies -
Overview**



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road
- Allowance
- Railway
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary
- REA Status**
- REA Water Body
- Not a REA Water Body
- Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Landbird Migratory Stopover Area (ML)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)
- Significant Wetland
- Significant Woodland

Notes

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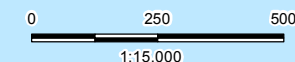
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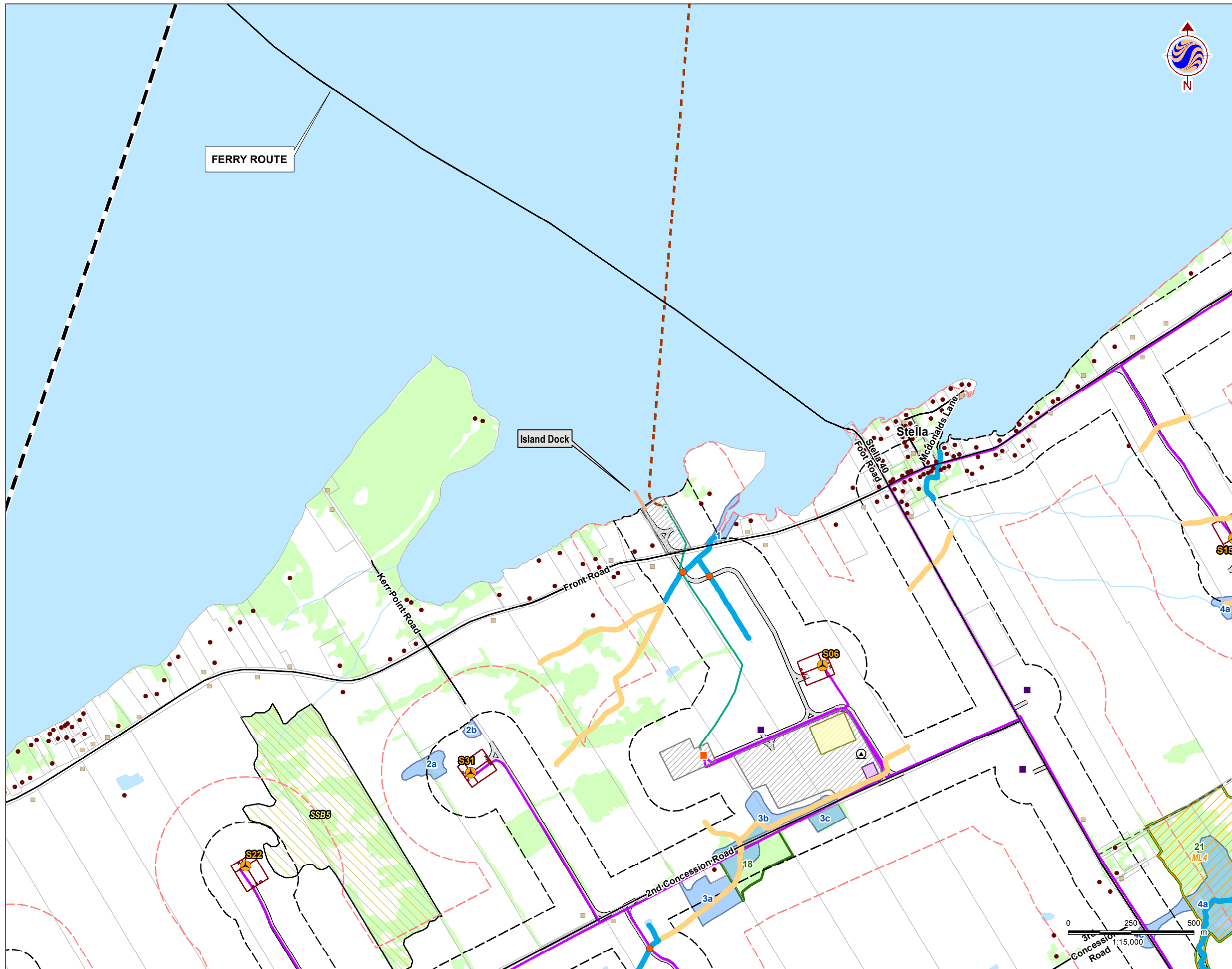
Figure No.

3.1

Title

**Significant Natural Features,
Wildlife Habitat and Waterbodies**





Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road
- Allowance
- Railway
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary
- REA Status**
- REA Water Body
- Not a REA Water Body
- Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Landbird Migratory Stopover Area (ML)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)
- Significant Wetland
- Significant Woodland

Notes

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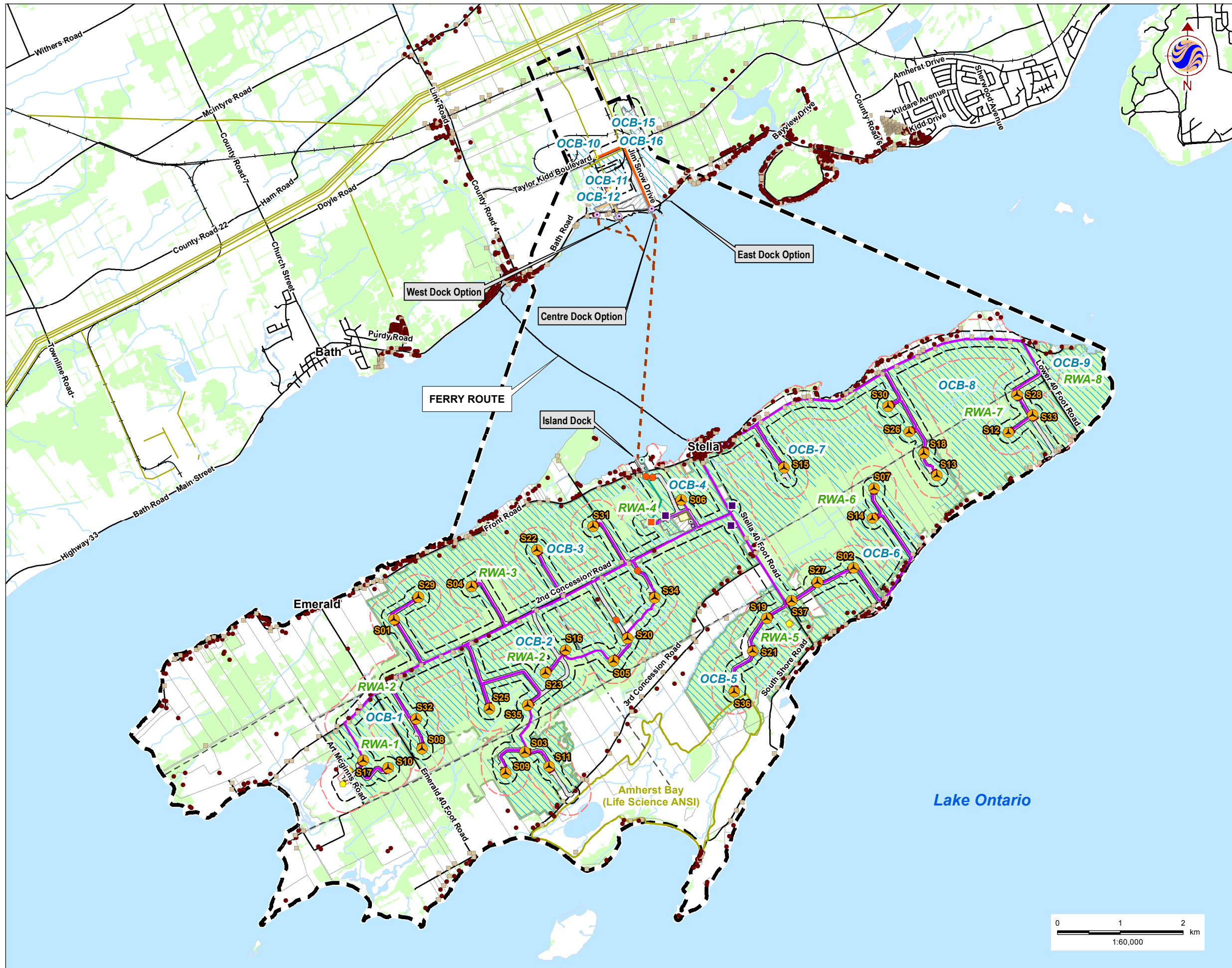
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Figure No.

3.2

Title

**Significant Natural Features,
Wildlife Habitat and Waterbodies**



Legend

	Project Study Area		Noise Receptors
	300m Zone of Investigation		Noise Receptors
	120m Zone of Investigation		Existing Features
	Turbine		Existing Features
	Met Tower (Potential Location)		Existing Features
	Substation (Potential Location)		Existing Features
	Access Road		Existing Features
	Collector Lines		Existing Features
	Submarine Cable Path		Existing Features
	Laydown Area and Crane Path		Existing Features
	Operation and Maintenance Building (Potential Location)		Existing Features
	Potential Culvert Location		Existing Features
	Point of Common Coupling		Existing Features
	Mainland Cable Vault (Potential Location)		
	Island Cable Vault		
	Aboveground Storage Tanks (Potential Location)		
	Constructible Area		
	Mainland Dock (Potential Location)		
	Island Dock		
	Batch Plant (Potential Location)		
	Site Office (Potential Location)		
	Storage Shed		
	Mainland Option 1		
	Mainland Option 2		
	Island Transmission Line		
	Central Staging Area		
	Switching Station (Potential Location)		

Notes

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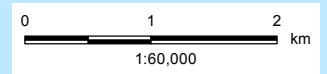
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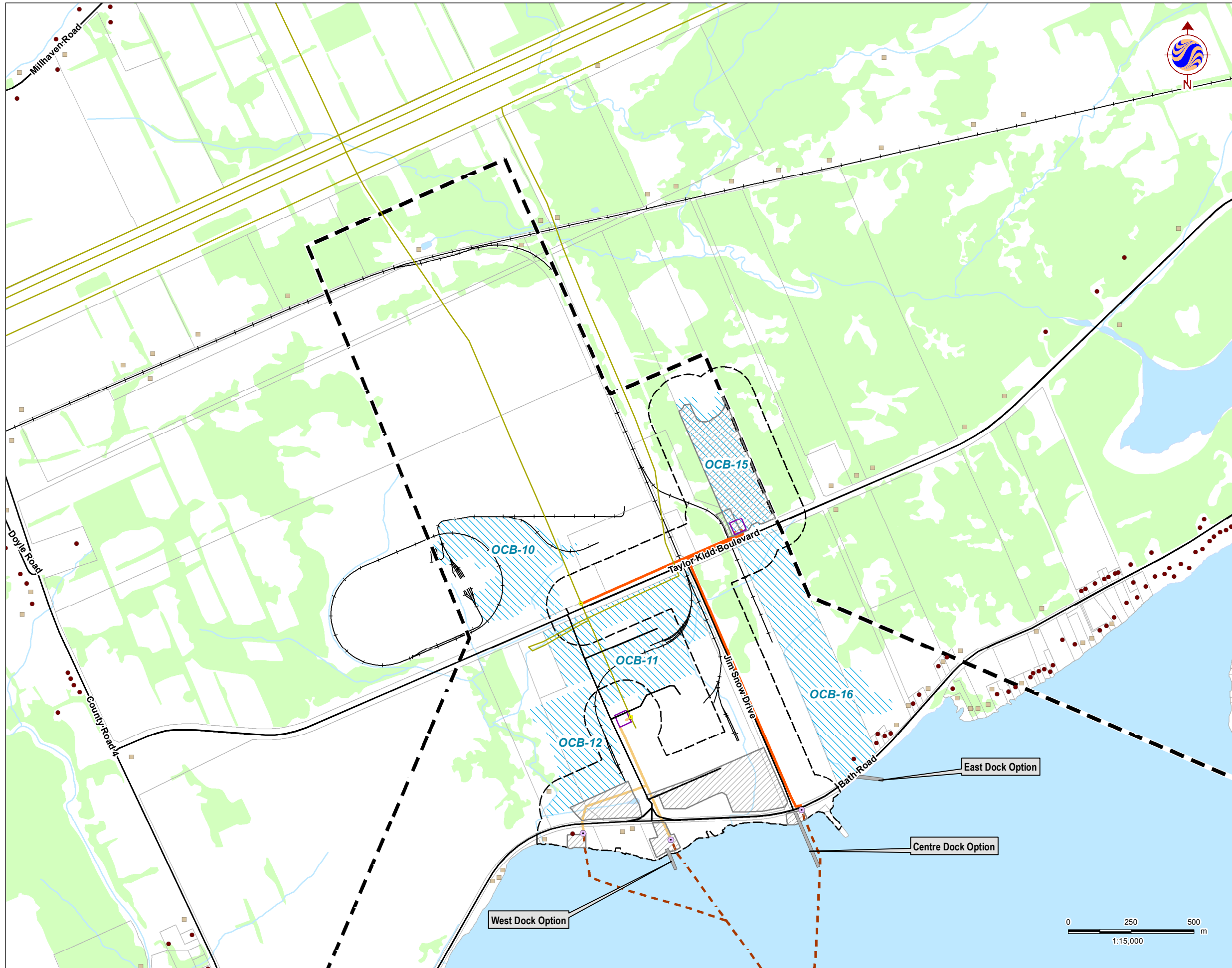
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Figure No.
4

Title
Significant Open Country Breeding Bird & Raptor Wintering Areas



\\cd1220-102101609\active\60960595\drawing\MXD\APC\PD\160960595_Fig4_SignificantRaptor_BreedingBird_Areas_Overview_20140408.mxd
Revised: 2014-04-08 By: pworsell



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Property Boundary
- Open Country Breeding Bird Area (OCB)
- Raptor Wintering Area (RWA)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road
- Railway
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary
- Open Country Breeding Bird Area (OCB)
- Raptor Wintering Area (RWA)

Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
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April 2014
160960595

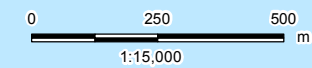
Client/Project

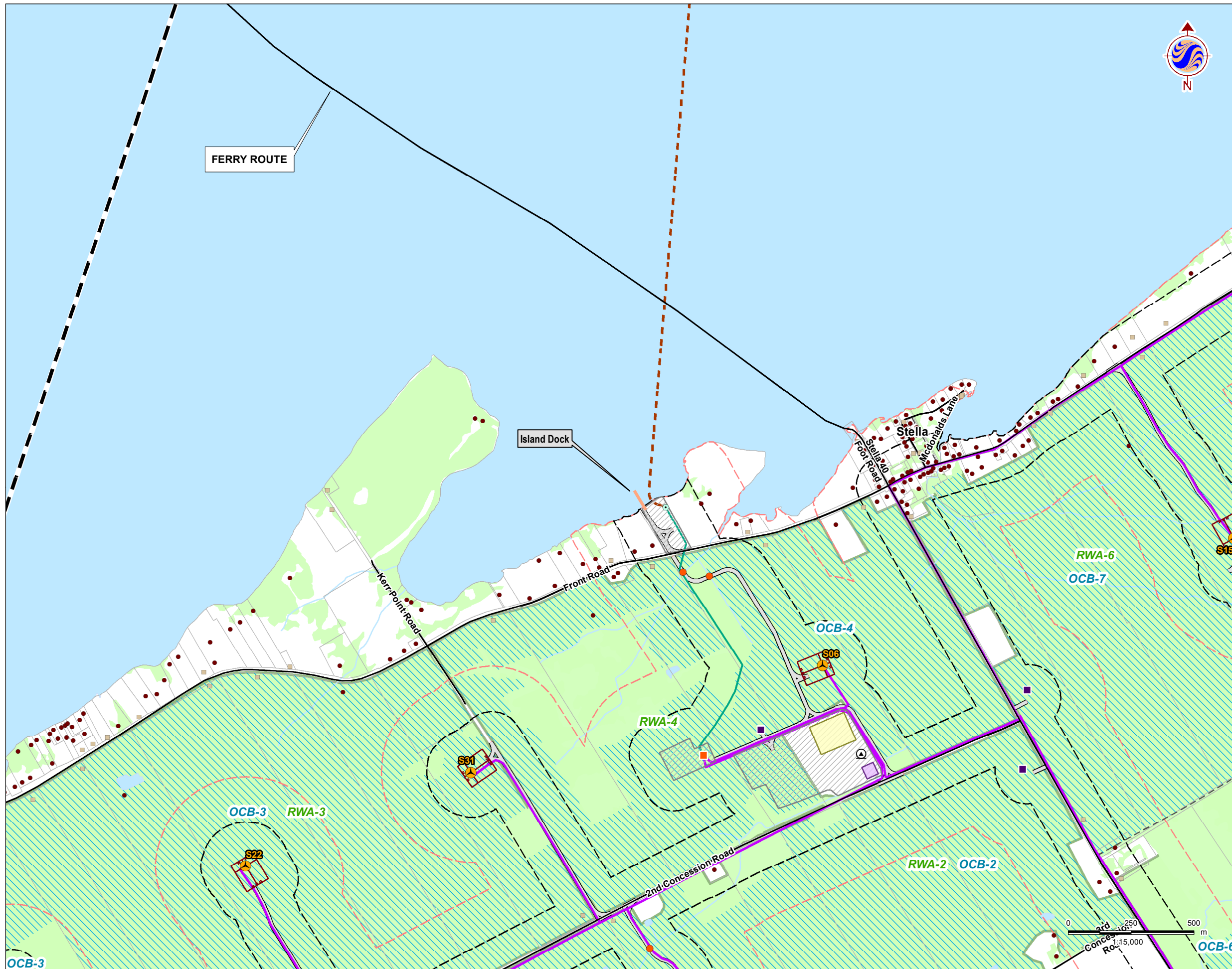
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
4.1

Title

**Significant Open Country Breeding
Bird & Raptor Wintering Areas**





Legend

- Project Study Area**
 - 300m Zone of Investigation
 - 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road
 - Collector Lines
 - Submarine Cable Path
 - Laydown Area and Crane Path
 - Operation and Maintenance Building (Potential Location)
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Aboveground Storage Tanks (Potential Location)
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
- Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
- Noise Receptors**
 - Existing
 - Vacant
- Existing Features**
 - Road
 - Unopened Road
 - Allowance
 - Railway
 - Hydro Line
 - Watercourse
 - Waterbody
 - Wooded Area
 - ANSI Boundary
 - Property Boundary
 - Open Country Breeding Bird Area (OCB)
 - Raptor Wintering Area (RWA)

- Notes**
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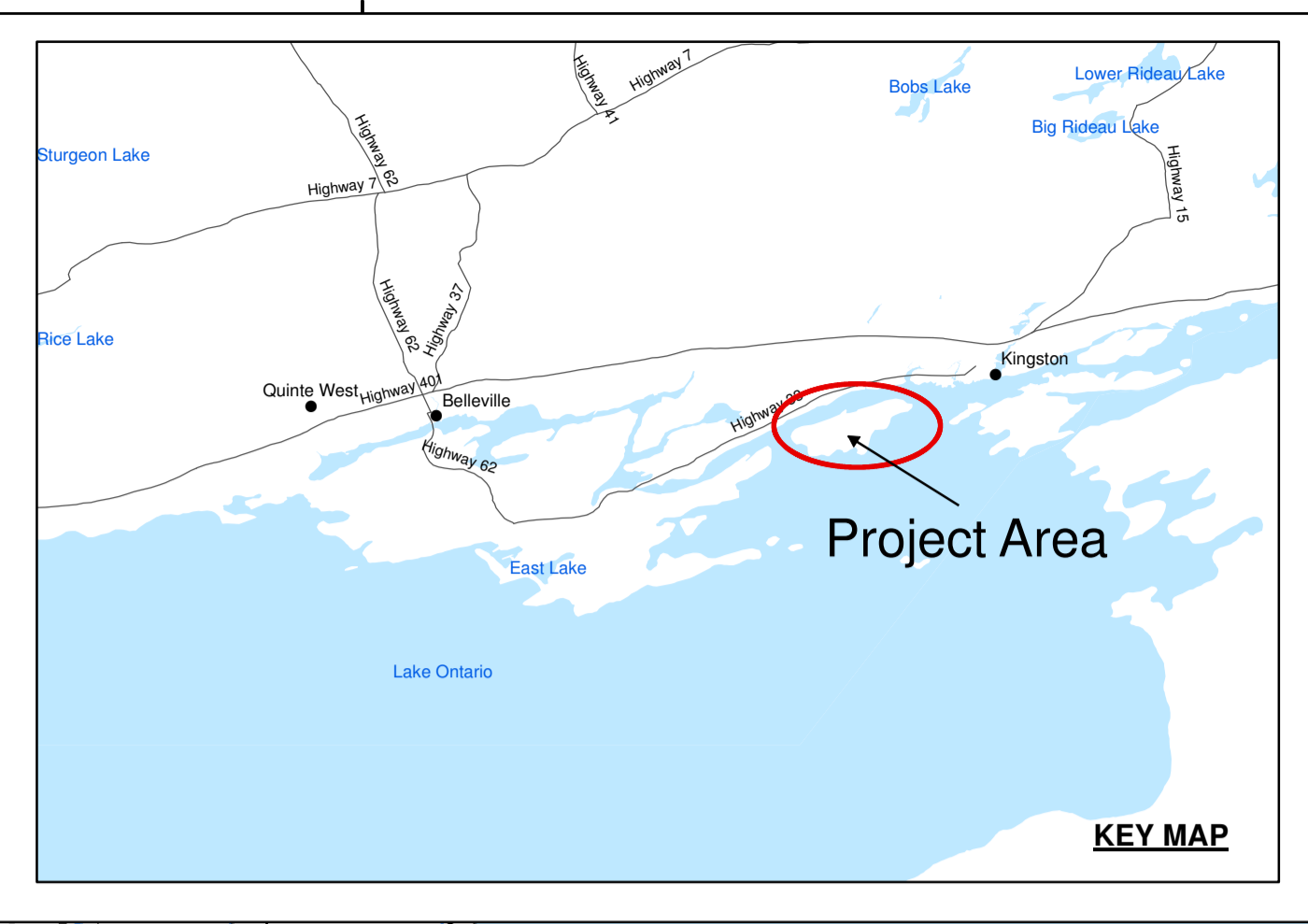
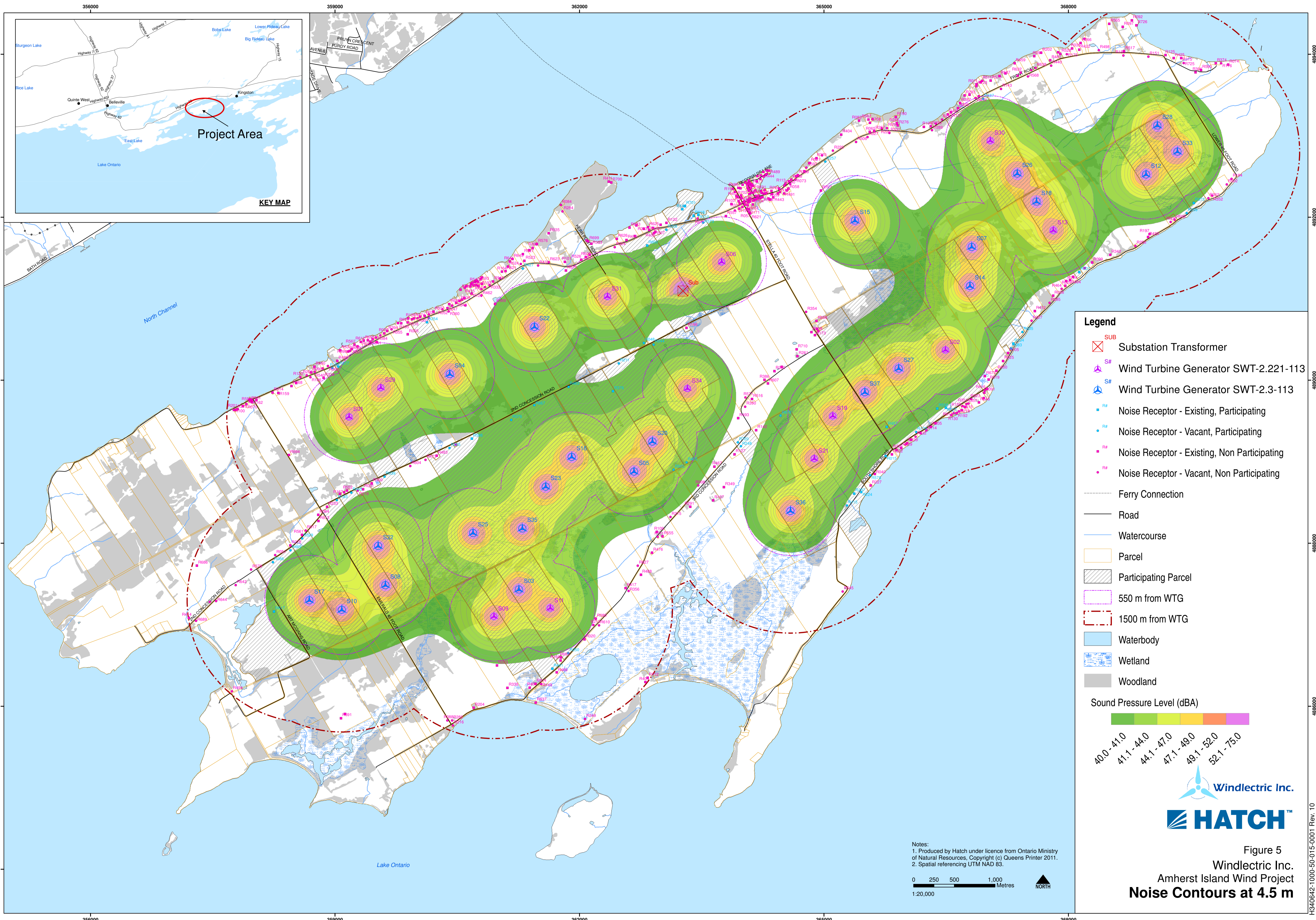
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Figure No.
4.2

Title
Significant Open Country Breeding Bird & Raptor Wintering Areas

\\cd1220-10201609\active\60960595\drawing\WXD\APC\PD\160960595_Fig4_SignificantRaptor_BreedingBird_Areas_20140408.mxd
Revised: 2014-04-08 By: pworsell



Legend

- SUB Substation Transformer
- S# Wind Turbine Generator SWT-2.221-113
- S# Wind Turbine Generator SWT-2.3-113
- R# Noise Receptor - Existing, Participating
- R# Noise Receptor - Vacant, Participating
- R# Noise Receptor - Existing, Non Participating
- R# Noise Receptor - Vacant, Non Participating
- Ferry Connection
- Road
- Watercourse
- Parcel
- Participating Parcel
- 550 m from WTG
- 1500 m from WTG
- Waterbody
- Wetland
- Woodland

Sound Pressure Level (dBA)

40.0 - 41.0
 41.1 - 44.0
 44.1 - 47.0
 47.1 - 49.0
 49.1 - 52.0
 52.1 - 75.0

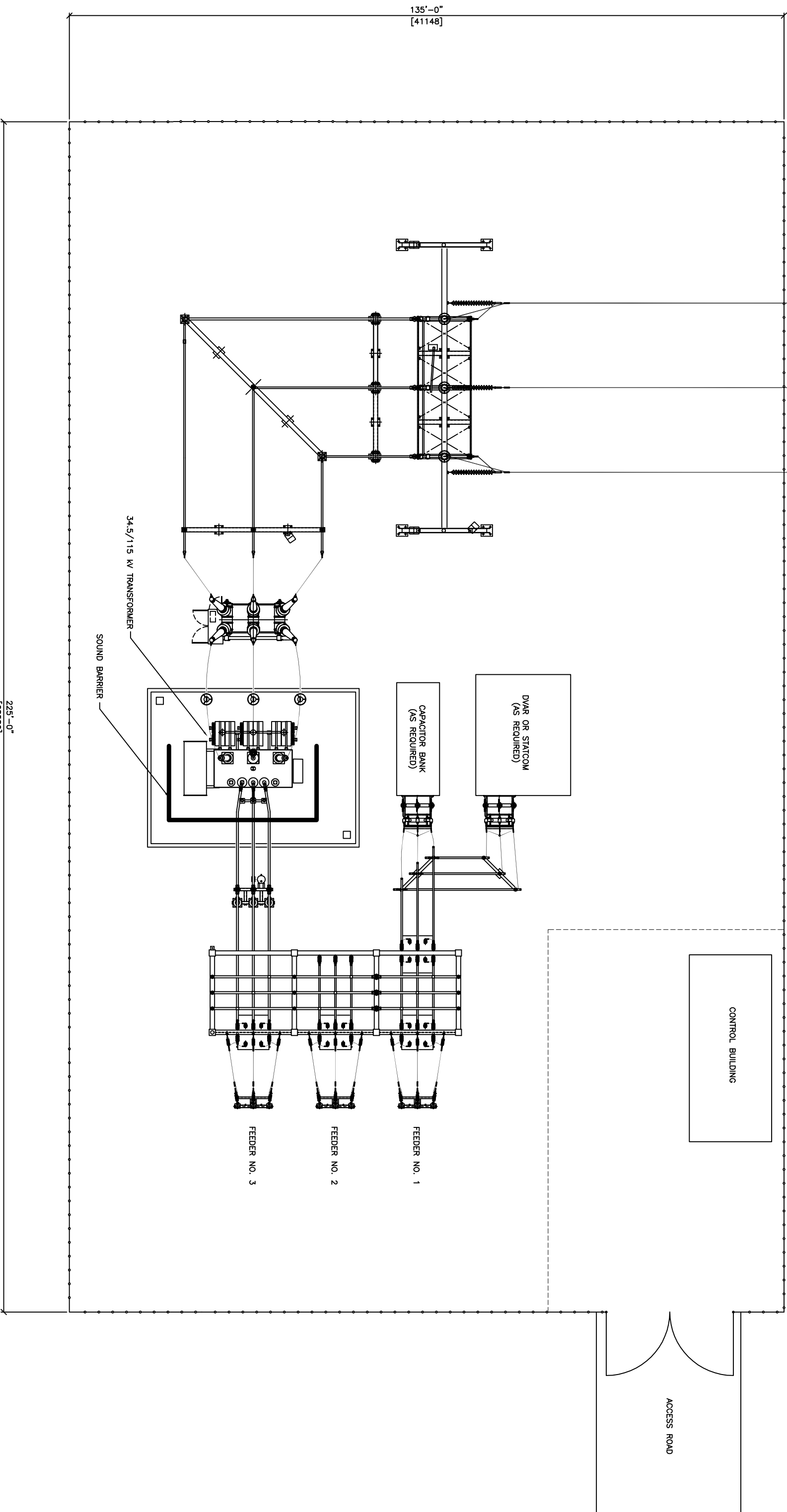
Notes:
 1. Produced by Hatch under licence from Ontario Ministry of Natural Resources, Copyright (c) Queens Printer 2011.
 2. Spatial referencing UTM NAD 83.

0 250 500 1,000 Metres
 1:20,000

NORTH

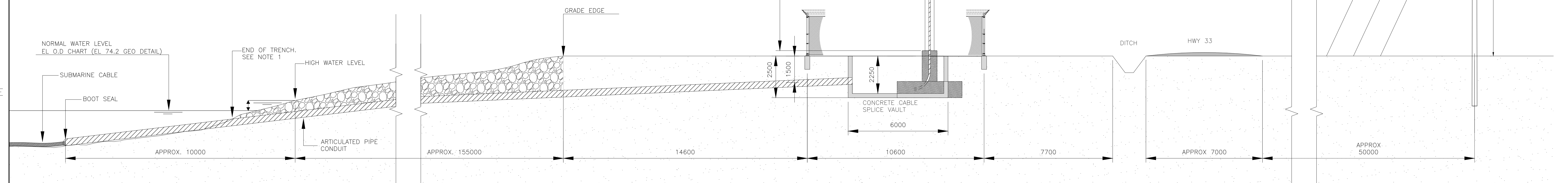
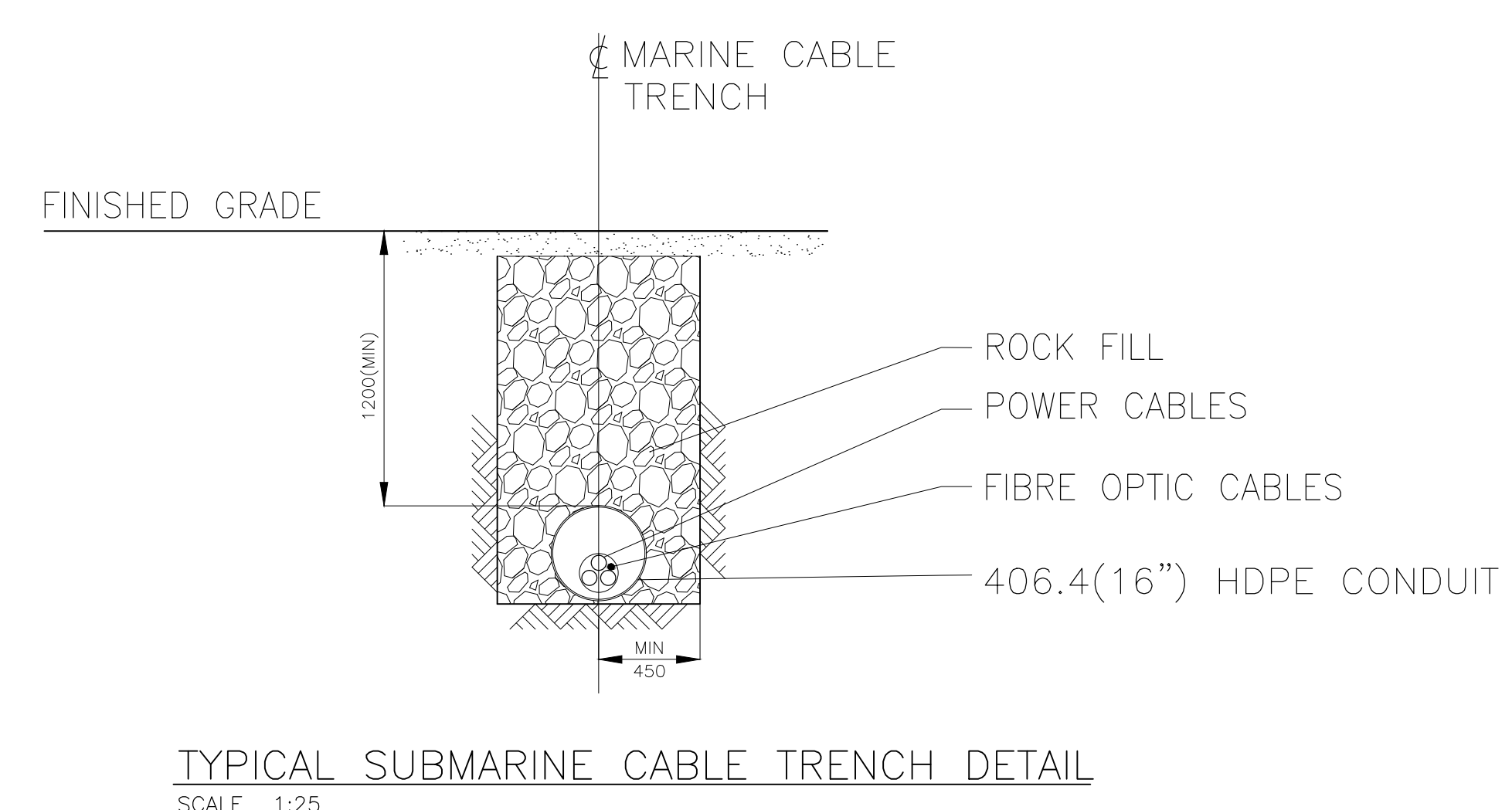
Windlectric Inc.
 HATCH™

Figure 5
 Windlectric Inc.
 Amherst Island Wind Project
Noise Contours at 4.5 m



AMHERST ISLAND WIND PROJECT
Figure 6.0





DIMENSIONS SHOWN IN MILLIMETRES
ELEVATIONS SHOWN IN METRES

NOTES:
 1. SUBMARINE CABLE AND CONDUIT TO REMAIN IN TRENCH UNTIL MINIMUM HEIGHT CLEARANCE BETWEEN TOP WATER LEVEL(TBD) AND CONDUIT AND CABLE OF 3M IS MET. THIS MINIMUM CLEARANCE IS TO BE MAINTAINED OVER THE LENGTH OF THE CROSSING.

**PRELIMINARY
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CHECKED BY A. AFZAL	DATE 12-08-14
PROJ. DES. COORD. G. MICHENER	PROJ. ENGR. R. SKINNER
PROJ. MGR. J. MORAN	PROJECT NUMBER H340642

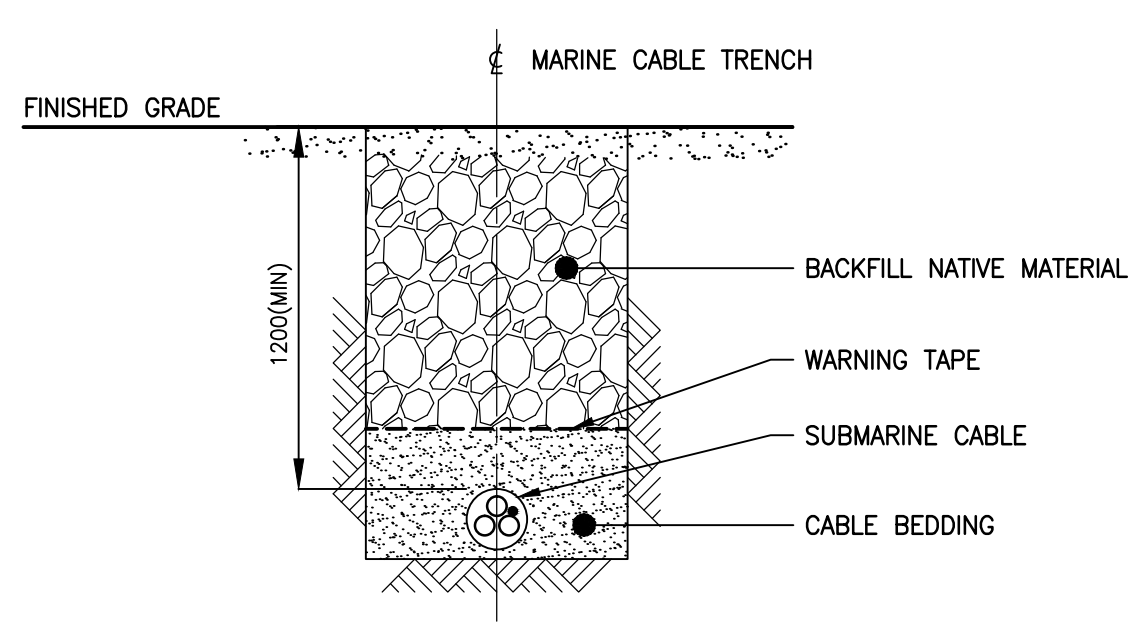
Amherst Island Wind Project

**CONCEPTUAL DESIGN FOR
SUBMARINE CABLE
O/H TERMINATION - MAINLAND**

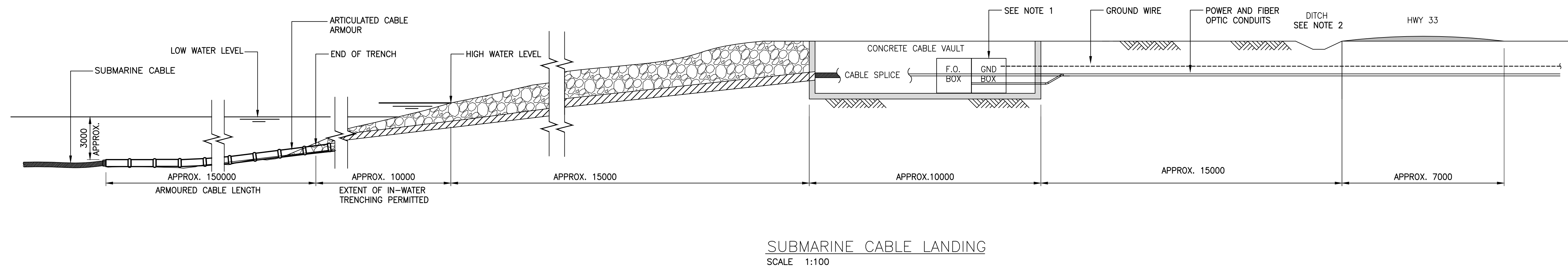
Figure 7.0

DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS	
CIVIL	ELECTRICAL
MECHANICAL	GEOTECHNICAL
HYDROTECHNICAL	ARCHITECTURAL
OTHER	

DWG. NO. H340642-4000-70-042-0405
 REGION A



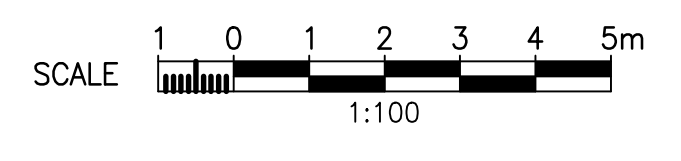
TYPICAL SUBMARINE CABLE TRENCH DETAIL
SCALE 1:25



SUBMARINE CABLE LANDING
SCALE 1:100

MATCHLINE: - FOR CONTINUATION, SEE DRAWING H340642-4000-70-042-0403

- NOTES:**
- SCOPE OF JUNCTION BOXES (GROUND, FIBER) BY CABLE SUPPLIER.
 - BURIED CABLE DEPTH FROM BOTTOM OF DITCH MINIMUM 2.0 METERS.



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DESIGNED BY A. AFZAL DATE 12-09-20	DRAWN BY G. MICHENER DATE 12-09-20
CHECKED BY A. AFZAL DATE 12-09-20	PROJ. ENGR. R. SKINNER DATE 12-09-20
PROJ. DES. COORD. G. MICHENER DATE 12-09-20	PROJ. MGR. J. MORAN DATE 12-09-20
PROJECT NUMBER H340642	

Amherst Island Wind Project

CONCEPTUAL DESIGN FOR SUBMARINE CABLE TERMINATION - MAINLAND

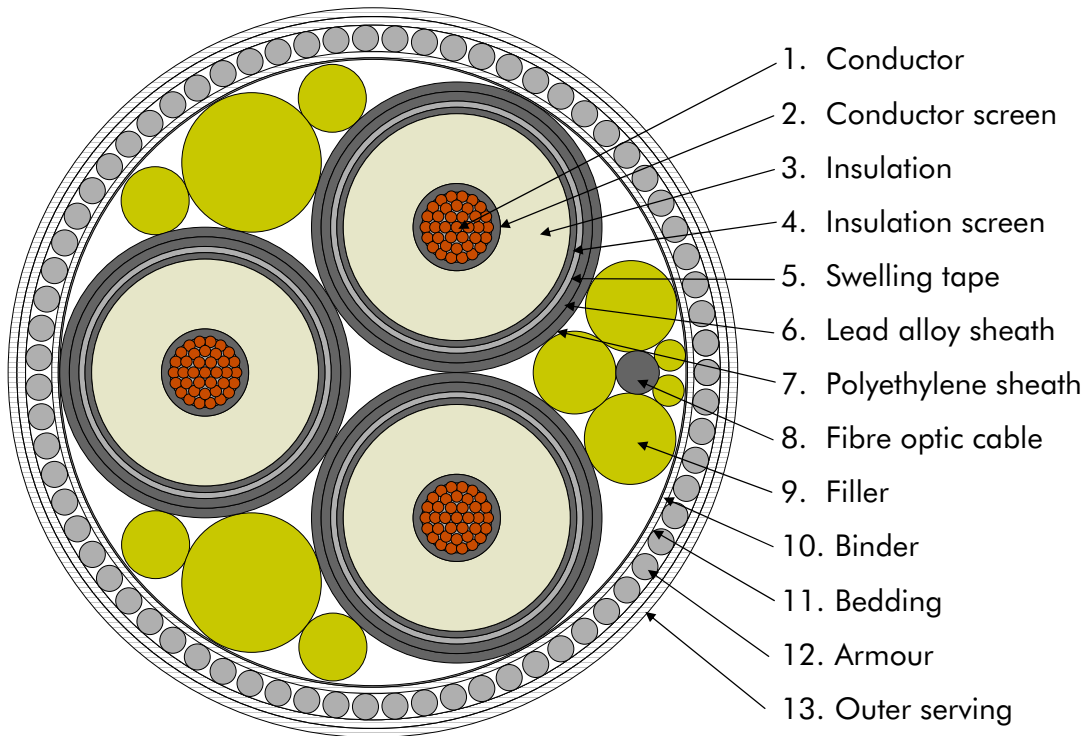
DRAWING NO.	DRAWING TITLE

SCALE	AS SHOWN
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Figure 8.0

Sep 24, 2012 2:27pm L:\a\afzal\mich\h340642-4000-70-042-0405.dwg
 Drawing Name: H340642-4000-70-042-0405.dwg

Conceptual Cross Section of the submarine cable (nominal 115kV)



Cable weight in air: approx. 50 kg/m

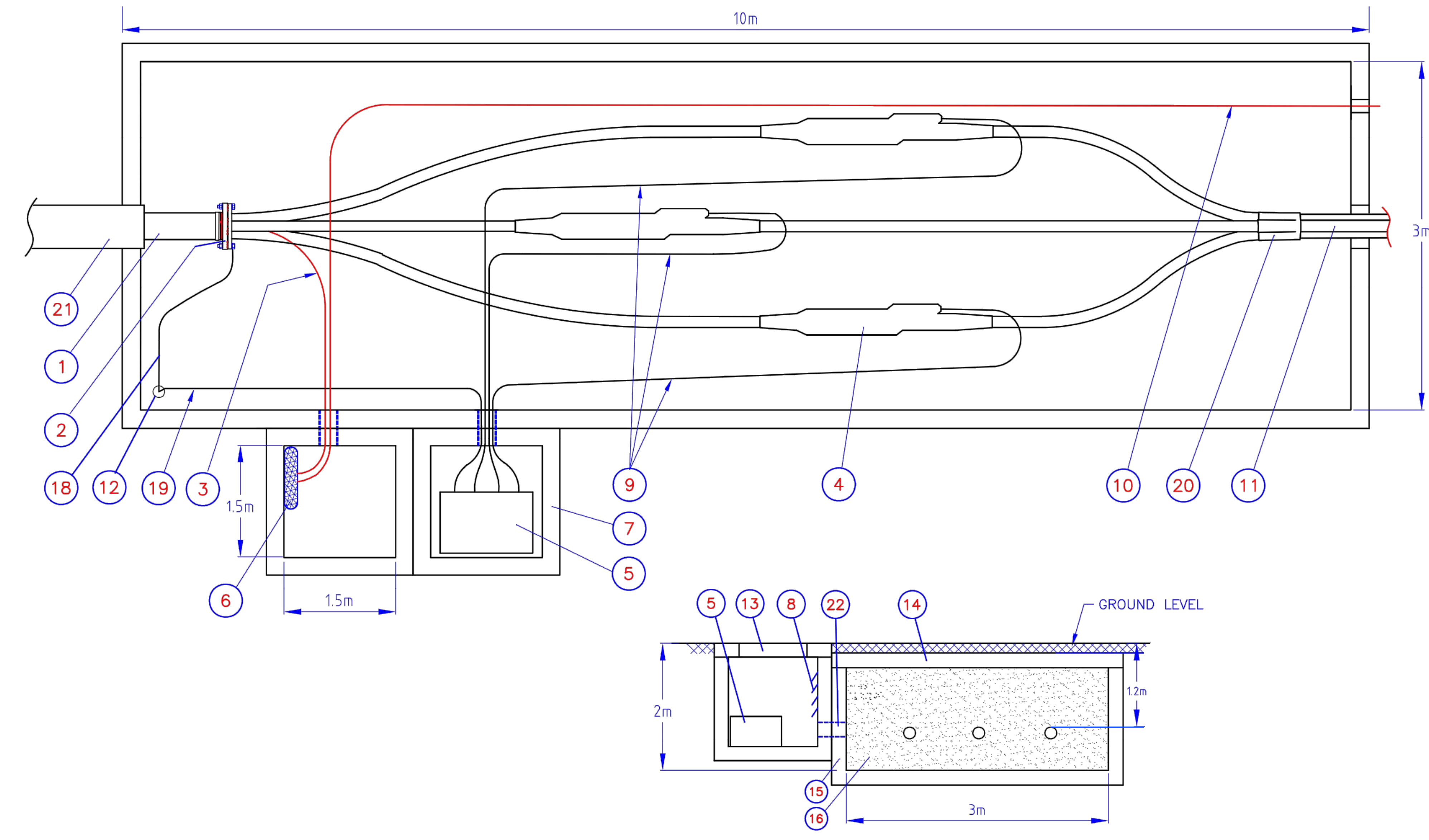
No.	Constituents	Nominal thickness mm	Nominal diameter mm
1	Conductor, stranded copper wires, watertight	37x2.64 [∅]	16.0
2	Conductor screen, semiconducting XLPE		
3	Insulation, XLPE	16.0	52.0
4	Insulation screen, semiconducting XLPE		
5	Semiconducting swellable tape		
6	Lead alloy sheath	2.1	62.2
7	Inner sheath, semiconducting polyethylene	2.0	
8	Fibre optic cables		10
9	Polypropylene yarn fillers		
10	Binder tape		
11	Bedding, polypropylene yarn and bitumen		
12	Armour, galvanized steel wires	71x6.0 [∅]	
13	Outer serving, polypropylene yarn and bitumen		167

Figure 10.0

DRAWING NO. H340642-4000-70-015-0007

SEA SIDE | LAND SIDE

ITEM	CONSTITUENTS
1	SUBMARINE POWER CABLE
2	ARMOUR TERMINATION GROUNDING AND CORE SERPARATION
3	FO ELEMENT
4	TRANSITION JOINT
5	GROUNDING LINK BOX
6	FO JOINT BOX
7	CONCRETE PIT
8	STAIRS
9	BONDING LEAD, COAX CABLE 1x300/300
10	ONSHORE FO CABLE
11	ONSHORE POWER CABLE, NOT NEXANS DELIVERY
12	GROUNDING ROD
13	MANHOLE ENTRANCE
14	CONCRETE COVER
15	CONCRETE PIT
16	FINE SAND. SAME THERMAL PROPERTIES AS THE BACKFILLING USED IN THE TRENCH OUTSIDE JOINT PIT
17	EARTH WIRE, 120mm2 Cu
18	BONDING LEAD FOR ARMOUR WIRES, 120mm2
19	INSULATED BONING LEAD, 120mm2
20	CORE SEPARATION
21	HDPE PIPE Ø415
22	CABLE BUSHING



D1 110210 Tender		RvF	CEO	DESIGNED BY	DESIGNED BY
ISSUE DATE	REASON FOR ISSUE	DRAWN BY	PREPARED	CHECKED	APPROVED
SCALE	NTS	FRAME	A3	PROJECTION	1st
CLIENT: NEXANS NORWAY AS		CLIENT			
DRAWING TITLE: TYPICAL LAYOUT OF JOINT BAY					
1 or 2 SETS					
NEXANS		NEXANS DRAWING NO. 101880		SHEET 1/1	

NEXANS A2

NOTES:
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ISSUED FOR INFO ONLY		RS	2012-08-13
REV.	ISSUE FOR	AUTH. BY	DATE
ISSUE AUTHORIZATION			
DESIGNED BY: G. MICHENER		DESIGNED BY: G. MICHENER	
DATE:		DATE:	
CHECKED BY:		DISCIP. ENGR. A. AFZAL	
DATE:		DATE:	
PROJ. DES. COORD. G. MICHENER		PROJ. ENGR. R. SKINNER	
DATE:		DATE:	
PROJ. MGR. J. MORAN		PROJECT NUMBER H340642	
DATE:		SCALE: NTS	



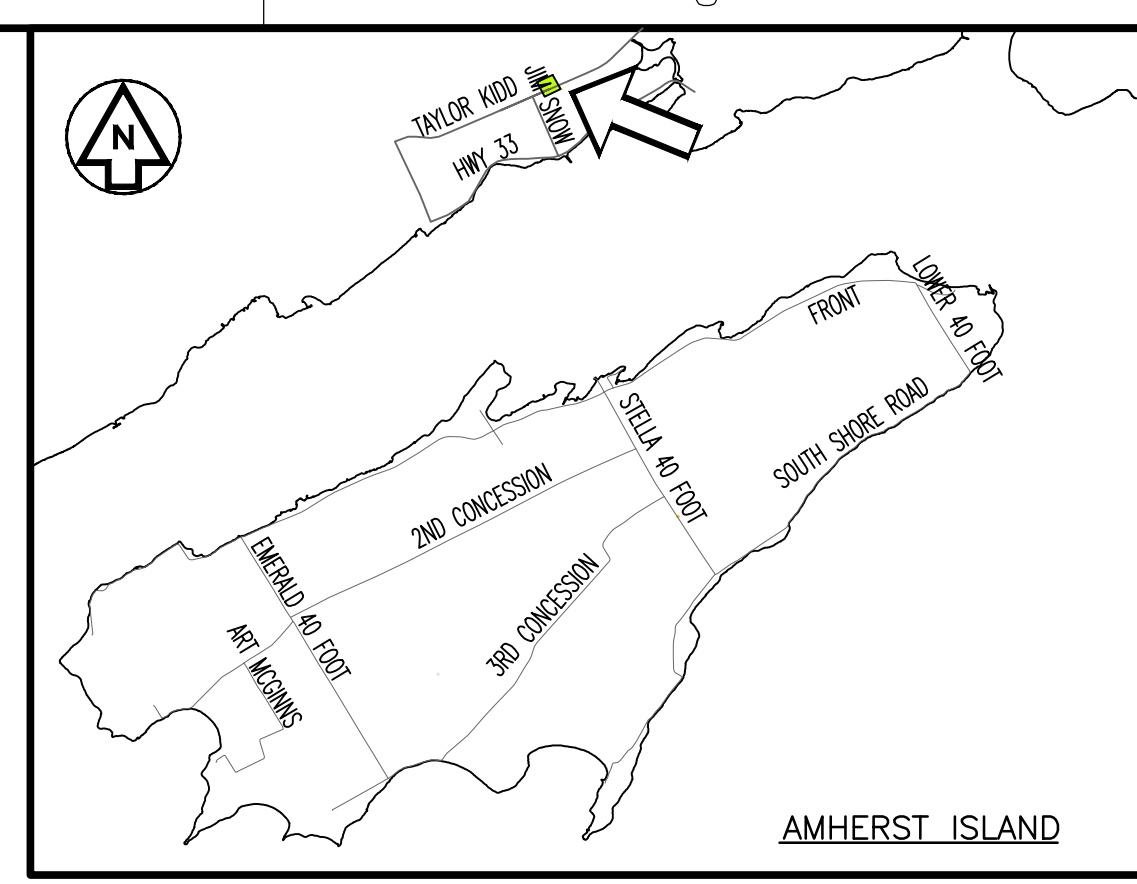
Amherst Island Wind Energy Project

115 KV SUBMARINE CABLE
TYPICAL VAULT DETAILS

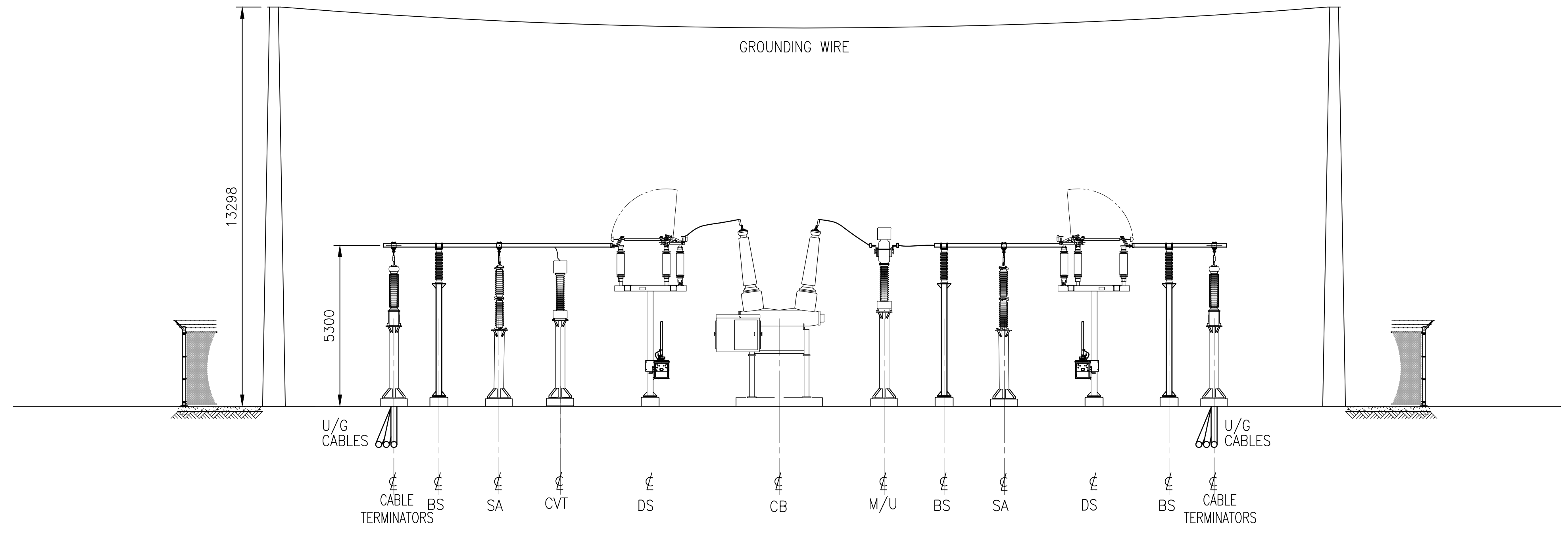
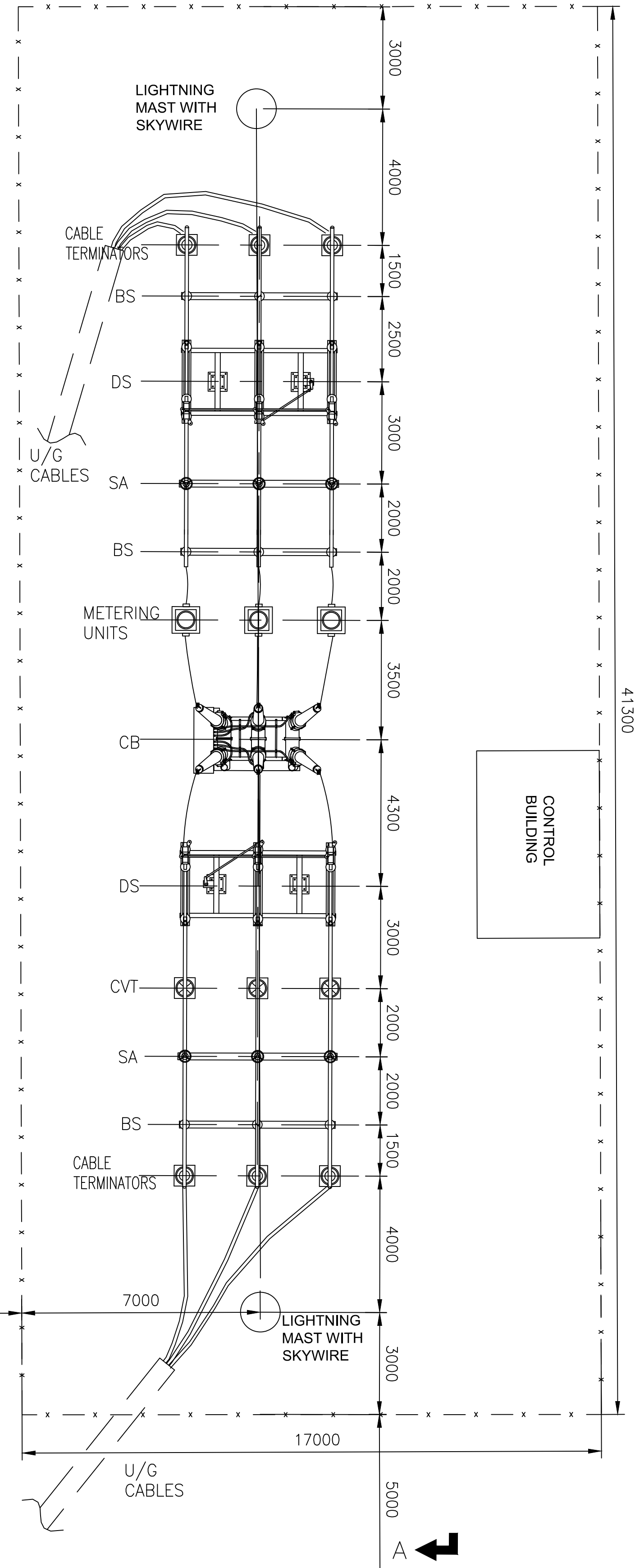
Figure 11.0

Aug 13, 2012, 4:18pm Login name: mich150337 Layout: Layout1 Drawing Name: P:\420000\340642-4000-70-015-0007.dwg

DWG. NO. H340642-4000-70-015-0006

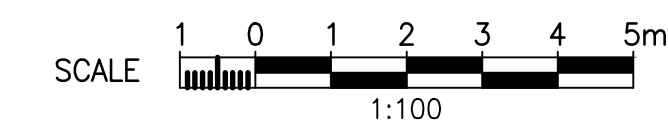


NOTES:
1. DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



SECTION A-A
115KV SWITCH STATION ELEVATION
SCALE 1:100

115KV SWITCH STATION PLAN
SCALE 1:100



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DESIGNED BY D. ZHANG	DRAWN BY D. ZHANG
CHECKED BY G. MICHENER	DATE 2012-10-23
PROJECT MGR. J. MORAN	PROJECT ENGR. R. SKINNER
PROJECT NUMBER H340642	

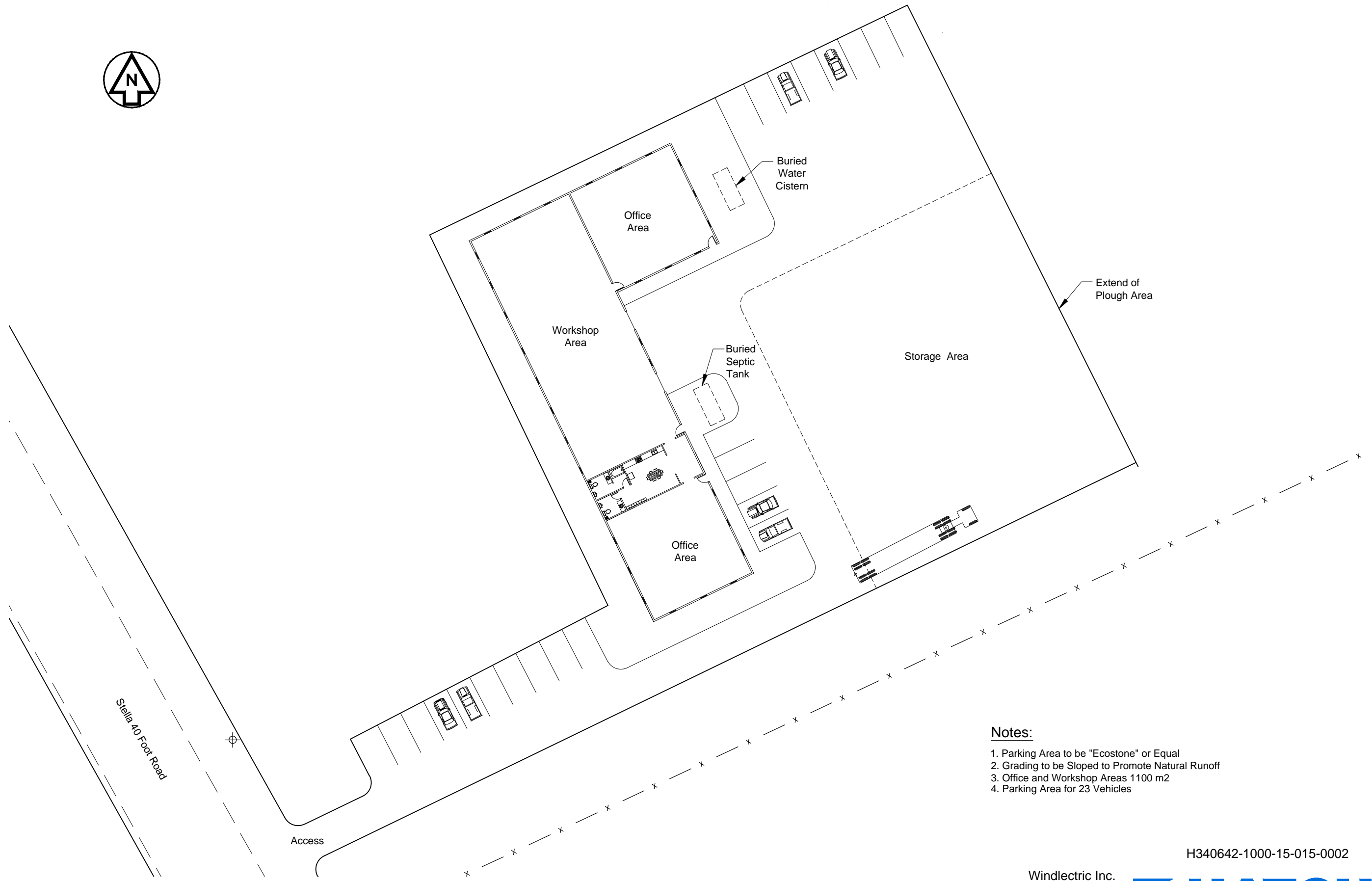
Windlectric Inc.
Amherst Island Wind Energy Project

115KV STATION LAYOUT
CRUICKSHANK PROPERTY LOCATION

Figure 13.0

DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS	
CIVIL	ELECTRICAL
MECHANICAL	GEOTECHNICAL
HYDROTECHNICAL	ARCHITECTURAL
OTHER	

Oct 26, 2012 2:51pm Login Name: mich150337 Legend: Legend1
Drawing Name: P:\A\2012\015\400642\CAD\15\H340642-4000-70-015-0006_B010.dwg



Notes:

- 1. Parking Area to be "Ecostone" or Equal
- 2. Grading to be Sloped to Promote Natural Runoff
- 3. Office and Workshop Areas 1100 m2
- 4. Parking Area for 23 Vehicles

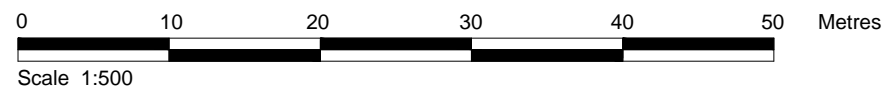
Operations & Management Building

Windlectric Inc.
Amherst Island Wind Project
Figure 14.0

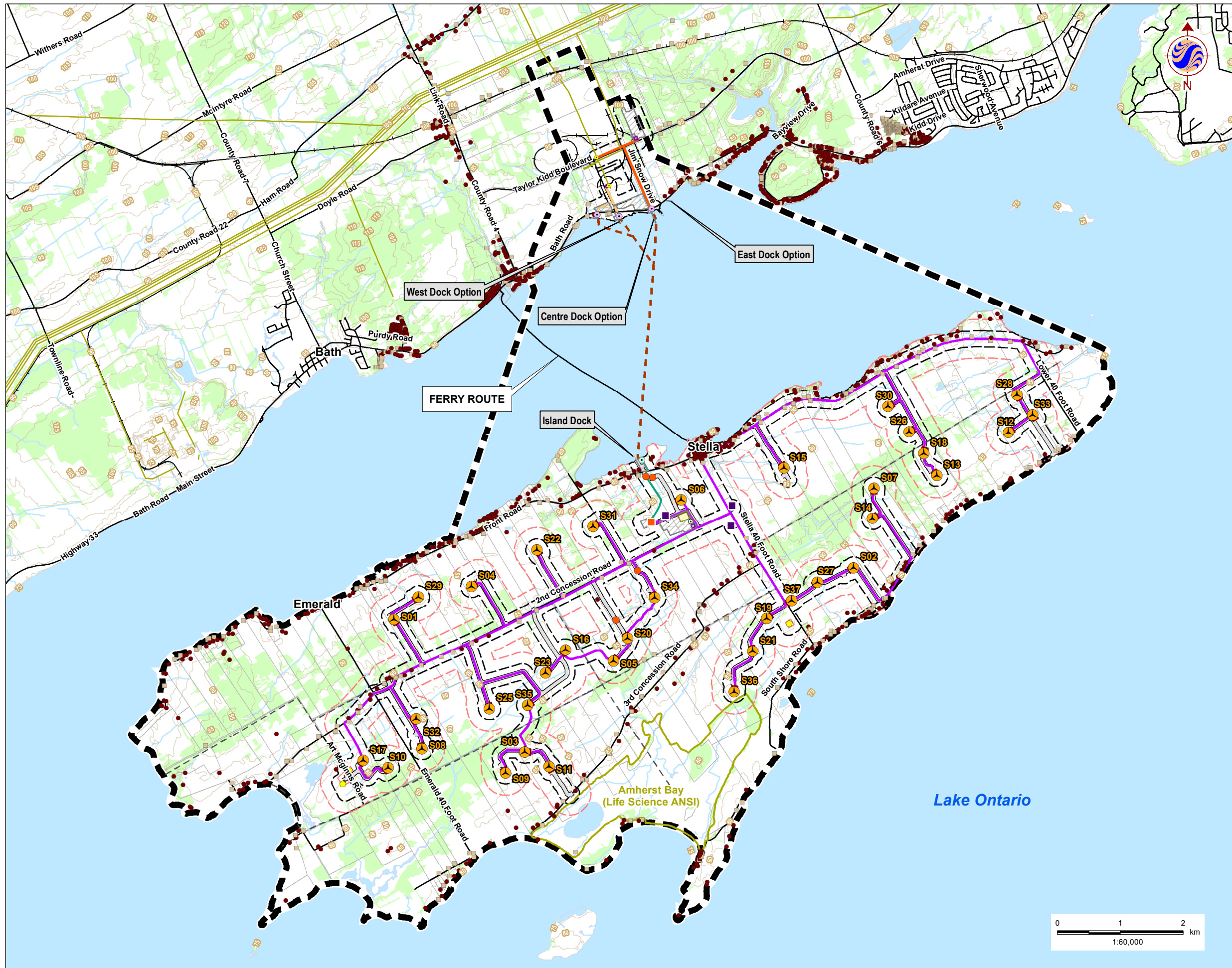
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Plot Scale 1:1
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Login name: pella7832
Layout: H340642-1000-10-042-0403



Appendix A4:
Construction Plan Report



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes

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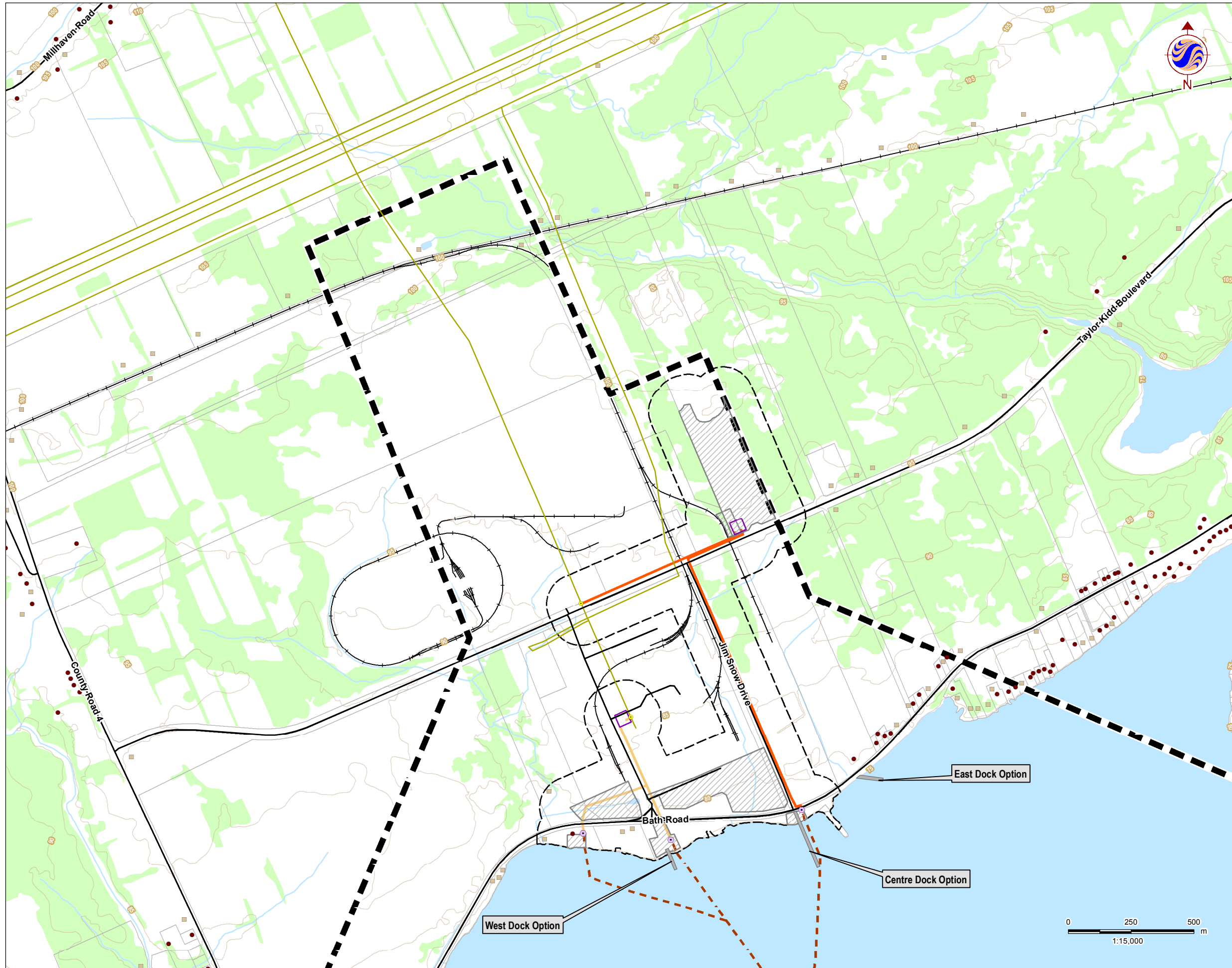
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

1

Title

Project Location & Study Area



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes

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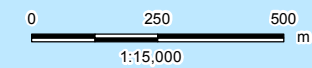
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

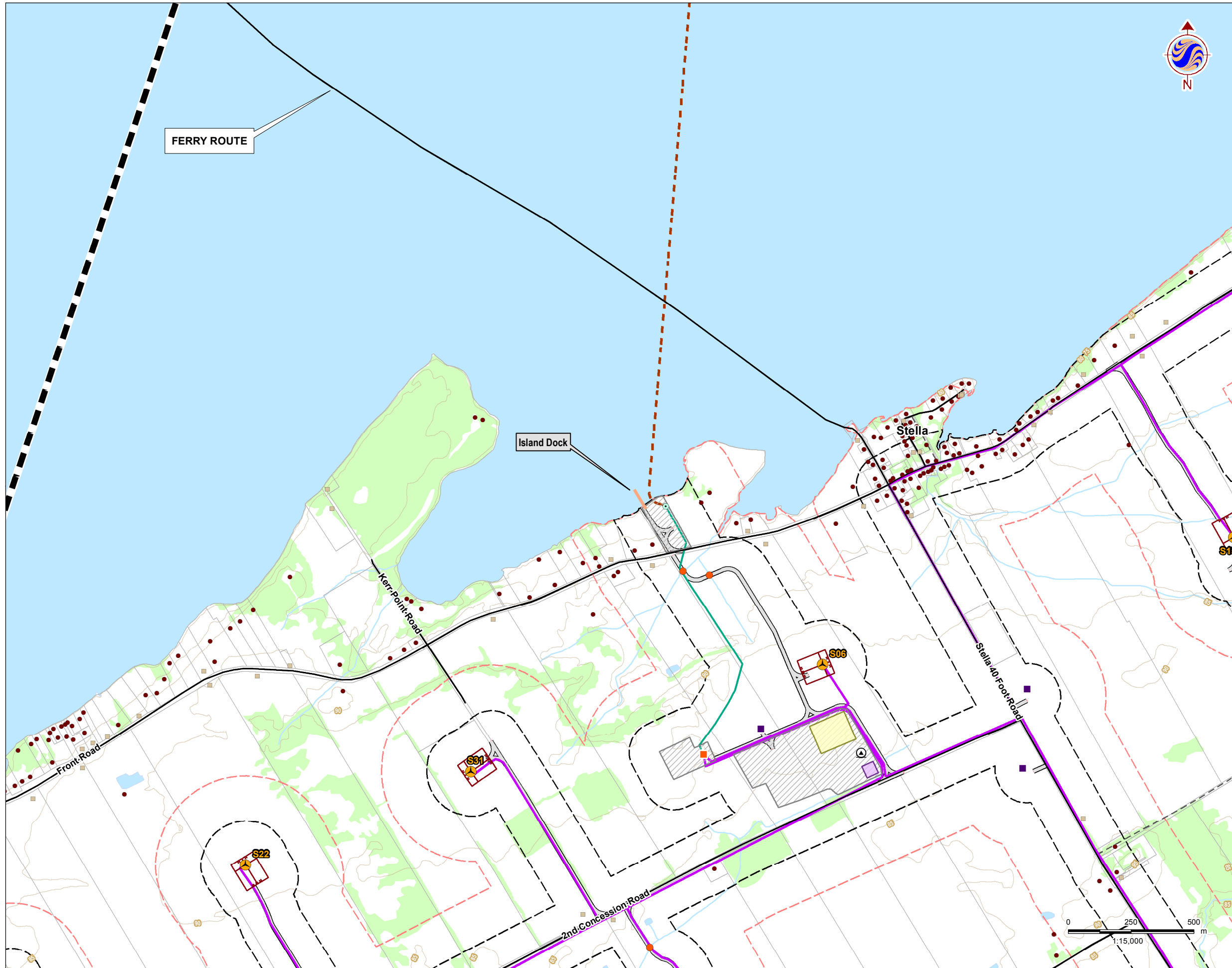
Figure No.

1.1

Title

Project Location & Study Area





Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes

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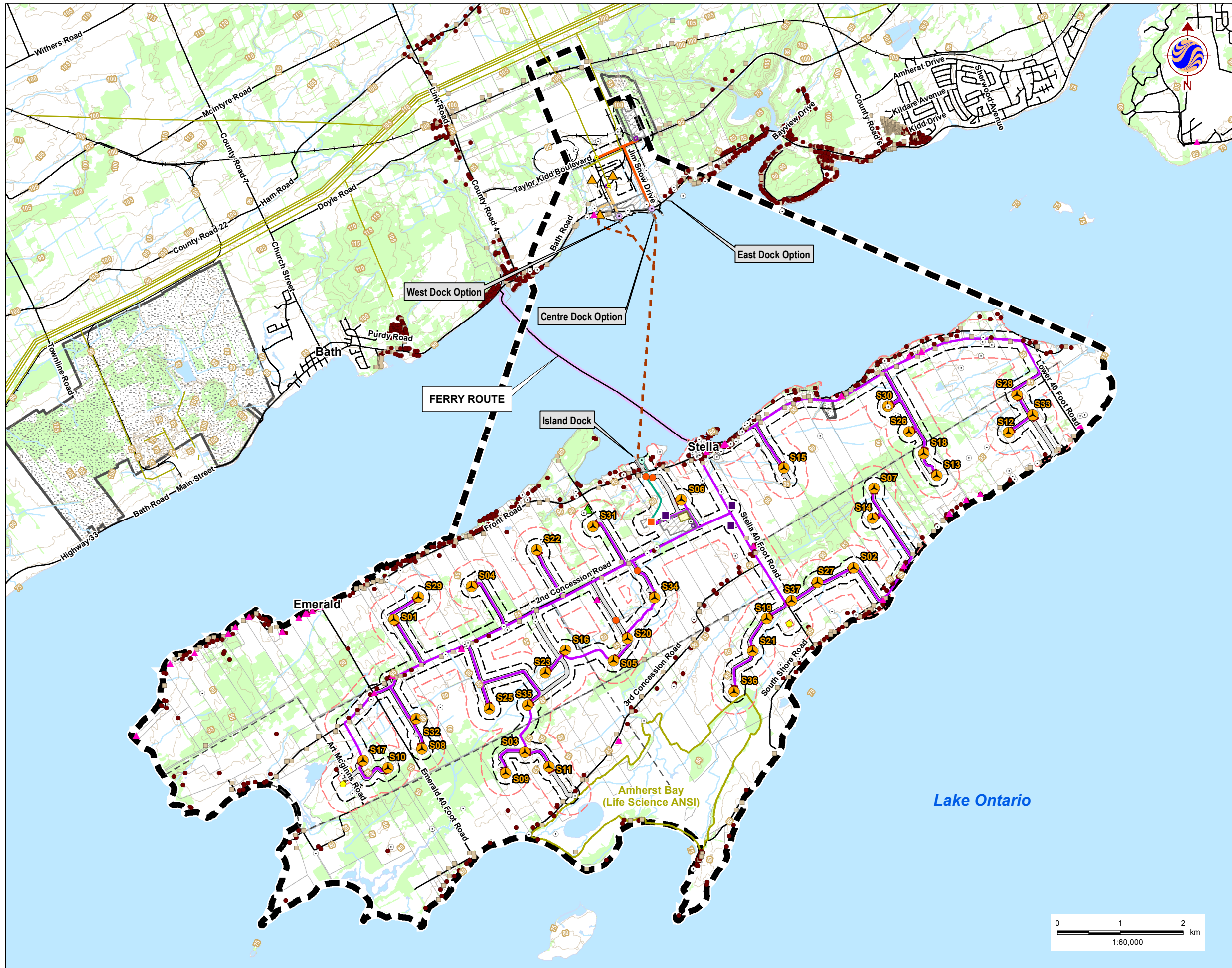
WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

1.2

Title

Project Location & Study Area



Legend

- Project Study
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road
 - Collector Lines
 - Submarine Cable Path
 - Laydown Area and Crane Path
 - Operation and Maintenance Building (Potential Location)
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Aboveground Storage Tanks (Potential Location)
- Constructible
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- Land Use**
 - Central Staging
 - Switching Station (Potential Location)
- Noise Receptors**
 - Existing
 - Vacant
- Existing Features**
 - Road
 - Unopened Road
 - Allowance
 - Railway
 - Elevation Contour (metres ASL)
 - Hydro Line
 - Watercourse
 - Waterbody
 - Wooded Area
 - Aggregate Site - Active
 - ANSI Boundary
 - Property Boundary
 - Landfill - Active
 - Landfill - Closed
 - Water Well Record
 - Built Heritage Resource
 - Ferry Landscape
 - Village of Stella



Notes
 1. Coordinate System: UTM NAD 83 - Zone 18 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2013.

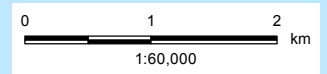
Stantec

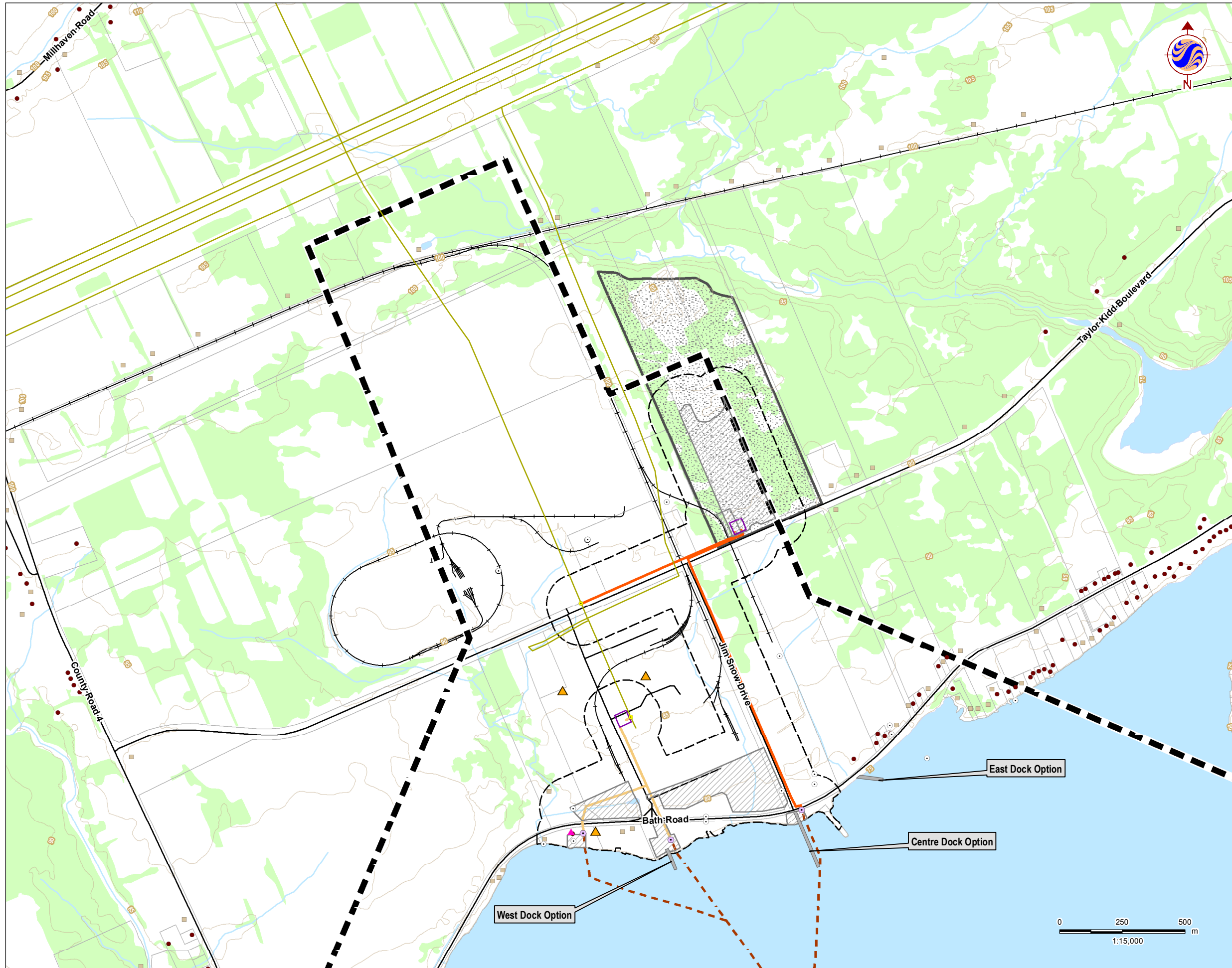
April 2014
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Client/Project
 WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 2

Title
Socio-Economic Features - Overview





Legend

- | | | | |
|--|---|--|--------------------------------|
| | Project Study Area | | Existing |
| | 300m Zone of Investigation | | Vacant |
| | 120m Zone of Investigation | | Road |
| | Turbine | | Unopened Road |
| | Met Tower (Potential Location) | | Allowance |
| | Substation (Potential Location) | | Railway |
| | Access Road | | Elevation Contour (metres ASL) |
| | Collector Lines | | Watercourse |
| | Submarine Cable Path | | Hydro Line |
| | Laydown Area and Crane Path | | Waterbody |
| | Operation and Maintenance Building (Potential Location) | | Wooded Area |
| | Potential Culvert Location | | Aggregate Site - Active |
| | Point of Common Coupling | | ANSI Boundary |
| | Mainland Cable Vault (Potential Location) | | Property Boundary |
| | Island Cable Vault | | Water Well Record |
| | Aboveground Storage Tanks (Potential Location) | | Built Heritage Resource |
| | Constructible Area | | Ferry Landscape |
| | Mainland Dock (Potential Location) | | Village of Stella |
| | Island Dock | | Landfill - Active |
| | Batch Plant (Potential Location) | | Landfill - Closed |
| | Site Office (Potential Location) | | |
| | Storage Shed | | |
| | Mainland Option 1 | | |
| | Mainland Option 2 | | |
| | Island Transmission Line | | |
| | Central Staging Area | | |
| | Switching Station (Potential Location) | | |

Notes

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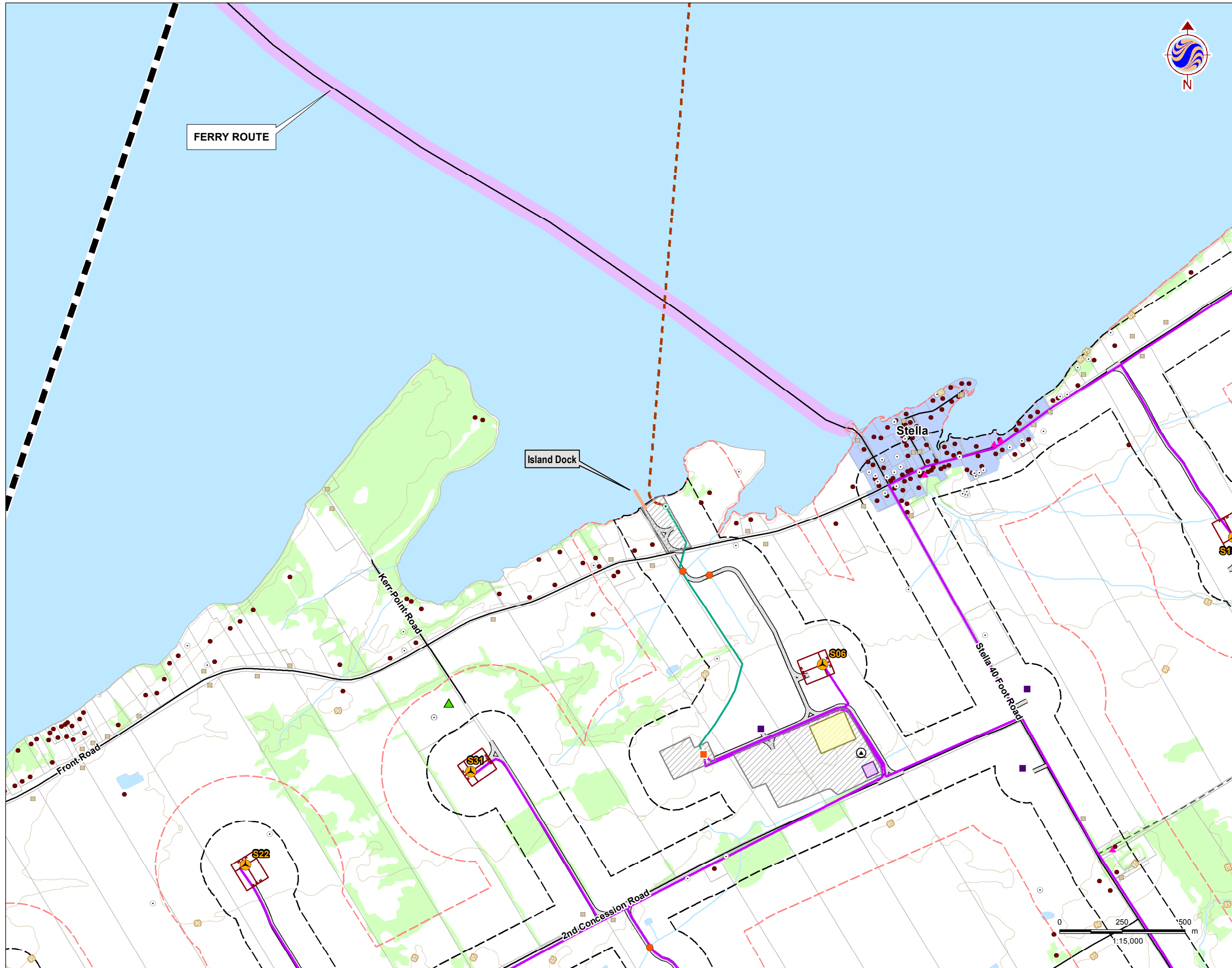
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Figure No.

2.1

Title

Socio-Economic Features



Legend

- | | | | | |
|---------------------------|---|--------------------------|--|--------------------------------|
| | Project Study Area | Noise Receptors | | Existing |
| | 300m Zone of Investigation | | | Vacant |
| | 120m Zone of Investigation | Existing Features | | Road |
| Project Components | | | | Unopened Road |
| | Turbine | | | Allowance |
| | Met Tower (Potential Location) | | | Railway |
| | Substation (Potential Location) | | | Elevation Contour (metres ASL) |
| | Access Road | | | Watercourse |
| | Collector Lines | | | Hydro Line |
| | Submarine Cable Path | | | Waterbody |
| | Laydown Area and Crane Path | | | Wooded Area |
| | Operation and Maintenance Building (Potential Location) | | | Aggregate Site - Active |
| | Potential Culvert Location | | | ANSI Boundary |
| | Point of Common Coupling | | | Property Boundary |
| | Mainland Cable Vault (Potential Location) | | | Water Well Record |
| | Island Cable Vault | | | Built Heritage Resource |
| | Aboveground Storage Tanks (Potential Location) | | | Ferry Landscape |
| | Constructible Area | | | Village of Stella |
| | Mainland Dock (Potential Location) | | | Landfill - Active |
| | Island Dock | | | Landfill - Closed |
| | Batch Plant (Potential Location) | | | |
| | Site Office (Potential Location) | | | |
| | Storage Shed | | | |
| Transmission Lines | | | | |
| | Mainland Option 1 | | | |
| | Mainland Option 2 | | | |
| | Island Transmission Line | | | |
| Land Use | | | | |
| | Central Staging Area | | | |
| | Switching Station (Potential Location) | | | |

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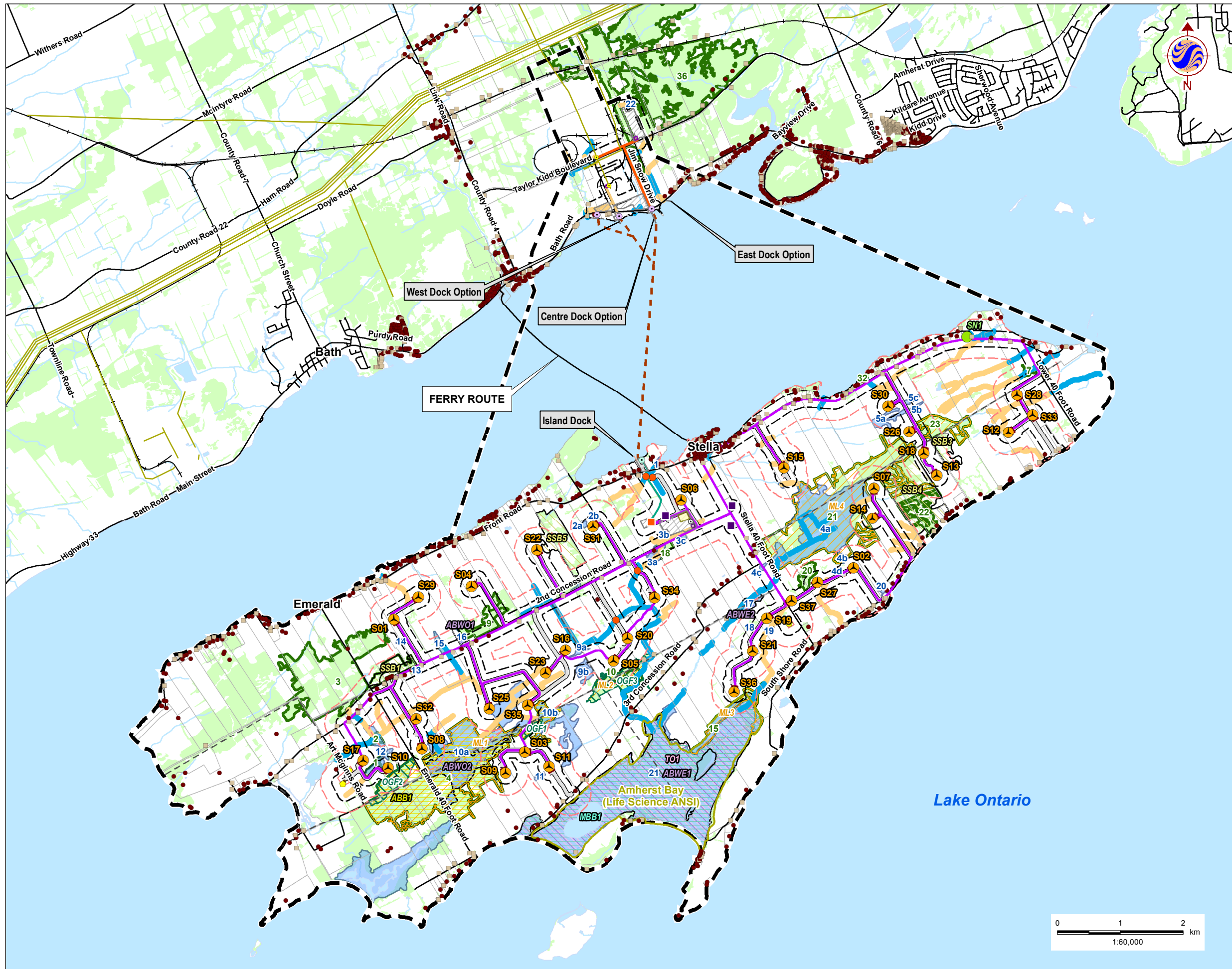
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Figure No.

2. 2

Title

Socio-Economic Features



Legend

	Project Study Area		Existing
	300m Zone of Investigation		Vacant
	120m Zone of Investigation	Existing Features	
	Turbine		Road
	Met Tower (Potential Location)		Unopened Road
	Substation (Potential Location)		Allowance
	Access Road		Railway
	Collector Lines		Hydro Line
	Submarine Cable Path		Watercourse
	Laydown Area and Crane Path		Waterbody
	Operation and Maintenance Building (Potential Location)		Wooded Area
	Potential Culvert Location		ANSI Boundary
	Point of Common Coupling		Property Boundary
	Mainland Cable Vault (Potential Location)	REA Status	
	Island Cable Vault		REA Water Body
	Aboveground Storage Tanks (Potential Location)		Not a REA Water Body
	Constructible Area	Significant Wildlife Habitat Features	
	Mainland Dock (Potential Location)		Snake Hibernacula (SN)
	Island Dock		Amphibian Breeding (ABWO & ABWE)
	Batch Plant (Potential Location)		Area-Sensitive Breeding Bird (ABB)
	Site Office (Potential Location)		Marsh Breeding Bird (MBB)
	Storage Shed		Shrub/Early Successional Bird Breeding (SSB)
Transmission Lines			Turtle Overwintering (TO)
	Mainland Option 1		Landbird Migratory Stopover Area (ML)
	Mainland Option 2		Waterfowl Stopover & Staging - Terrestrial (WT)
	Island Transmission Line		Old Growth Forest (OGF)
Land Use			Significant Woodland
	Central Staging Area		Significant Wetland
	Switching Station (Potential Location)		

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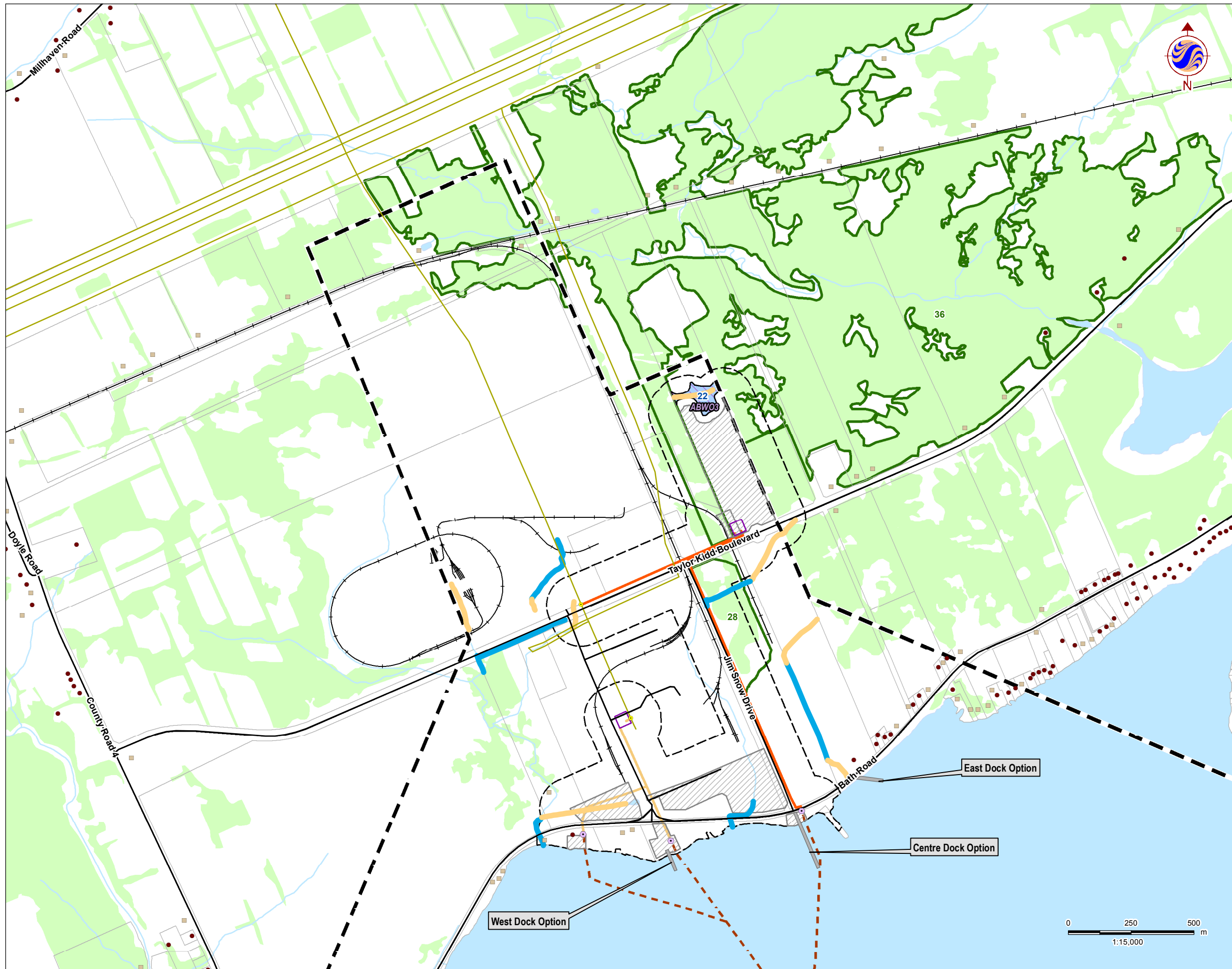
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AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
3

Title
**Significant Natural Features,
Wildlife Habitat and Waterbodies -
Overview**



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road
 - Collector Lines
 - Submarine Cable Path
 - Laydown Area and Crane Path
 - Operation and Maintenance Building (Potential Location)
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Aboveground Storage Tanks (Potential Location)
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
- Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
- Noise Receptors**
 - Existing
 - Vacant
- Existing Features**
 - Road
 - Unopened Road
 - Allowance
 - Railway
 - Hydro Line
 - Watercourse
 - Waterbody
 - Wooded Area
 - ANSI Boundary
 - Property Boundary
- REA Status**
 - REA Water Body
 - Not a REA Water Body
- Significant Wildlife Habitat Features**
 - Snake Hibernacula (SN)
 - Amphibian Breeding (ABWO & ABWE)
 - Area-Sensitive Breeding Bird (ABB)
 - Marsh Breeding Bird (MBB)
 - Shrub/Early Successional Bird Breeding (SSB)
 - Turtle Overwintering (TO)
 - Landbird Migratory Stopover Area (ML)
 - Waterfowl Stopover & Staging - Terrestrial (WT)
 - Old Growth Forest (OGF)
 - Significant Wetland
 - Significant Woodland

Notes

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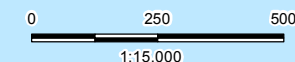
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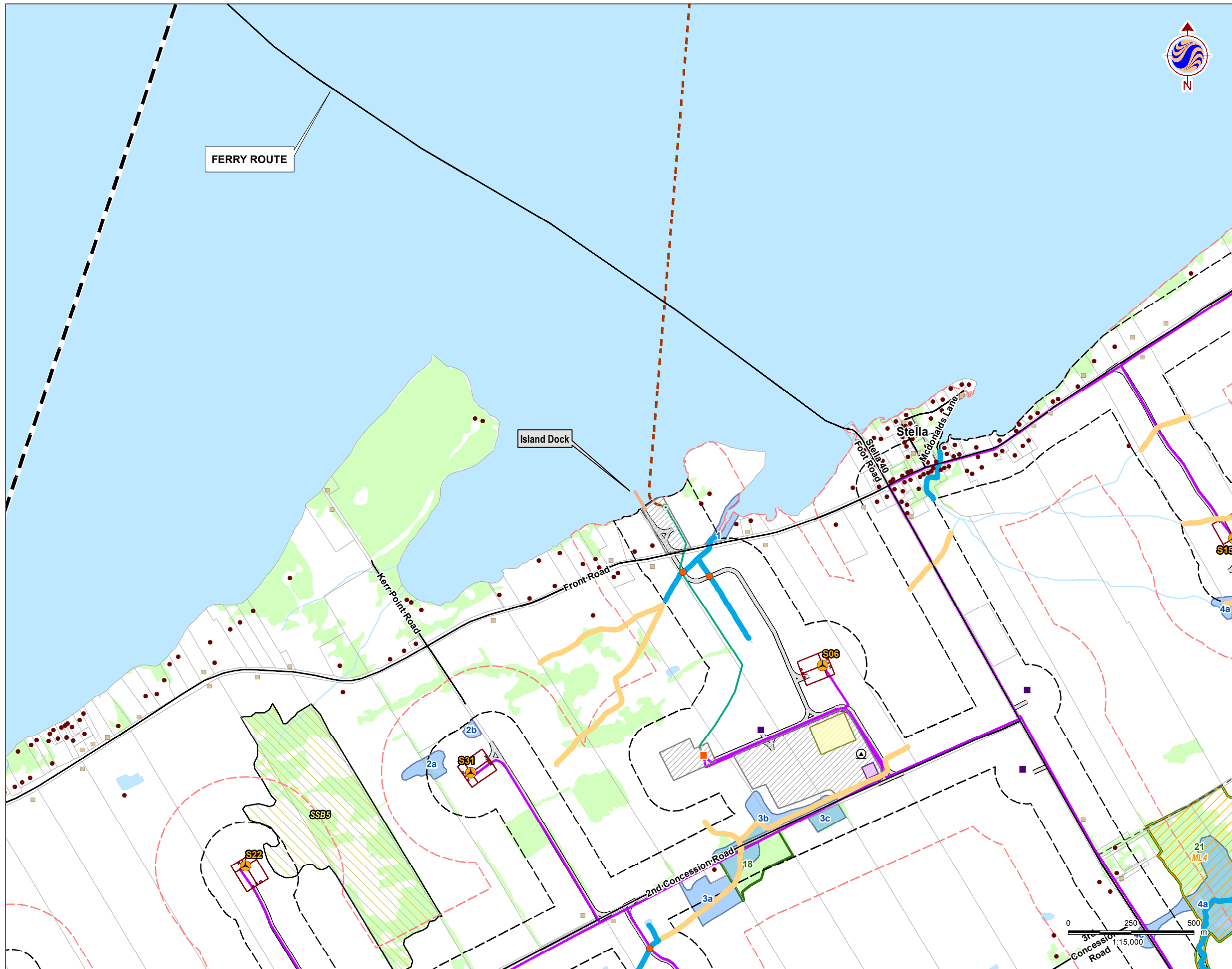
Figure No.

3.1

Title

**Significant Natural Features,
Wildlife Habitat and Waterbodies**





Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road
- Allowance
- Railway
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary
- REA Status**
- REA Water Body
- Not a REA Water Body
- Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Landbird Migratory Stopover Area (ML)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)
- Significant Wetland
- Significant Woodland

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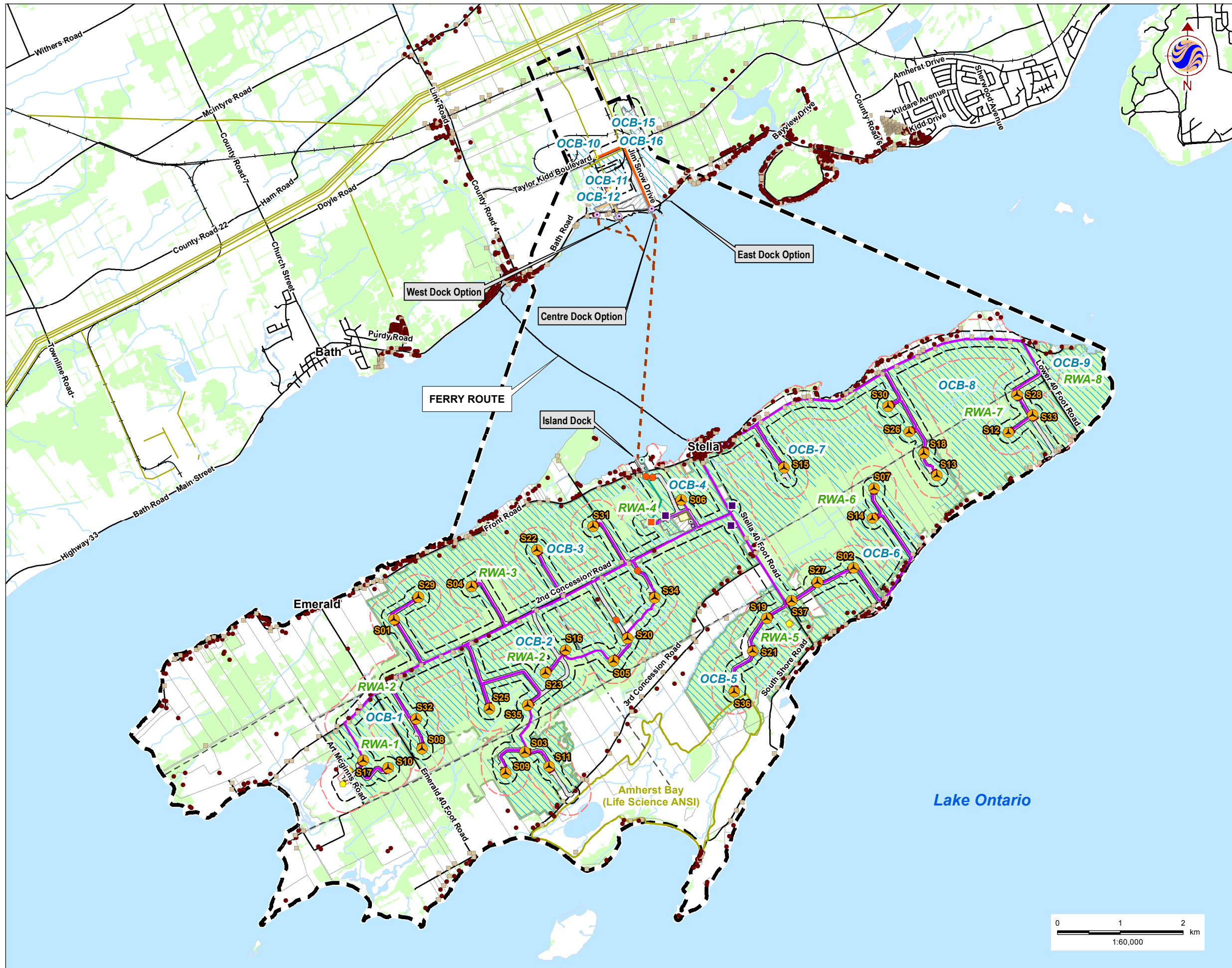
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Figure No.

3.2

Title

**Significant Natural Features,
Wildlife Habitat and Waterbodies**



Legend

	Project Study Area		Noise Receptors
	300m Zone of Investigation		Noise Receptors
	120m Zone of Investigation		Existing Features
	Turbine		Existing Features
	Met Tower (Potential Location)		Existing Features
	Substation (Potential Location)		Existing Features
	Access Road		Existing Features
	Collector Lines		Existing Features
	Submarine Cable Path		Existing Features
	Laydown Area and Crane Path		Existing Features
	Operation and Maintenance Building (Potential Location)		Existing Features
	Potential Culvert Location		Existing Features
	Point of Common Coupling		Existing Features
	Mainland Cable Vault (Potential Location)		
	Island Cable Vault		
	Aboveground Storage Tanks (Potential Location)		
	Constructible Area		
	Mainland Dock (Potential Location)		
	Island Dock		
	Batch Plant (Potential Location)		
	Site Office (Potential Location)		
	Storage Shed		
	Mainland Option 1		
	Mainland Option 2		
	Island Transmission Line		
	Central Staging Area		
	Switching Station (Potential Location)		

Notes

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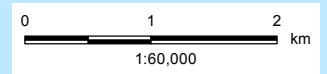
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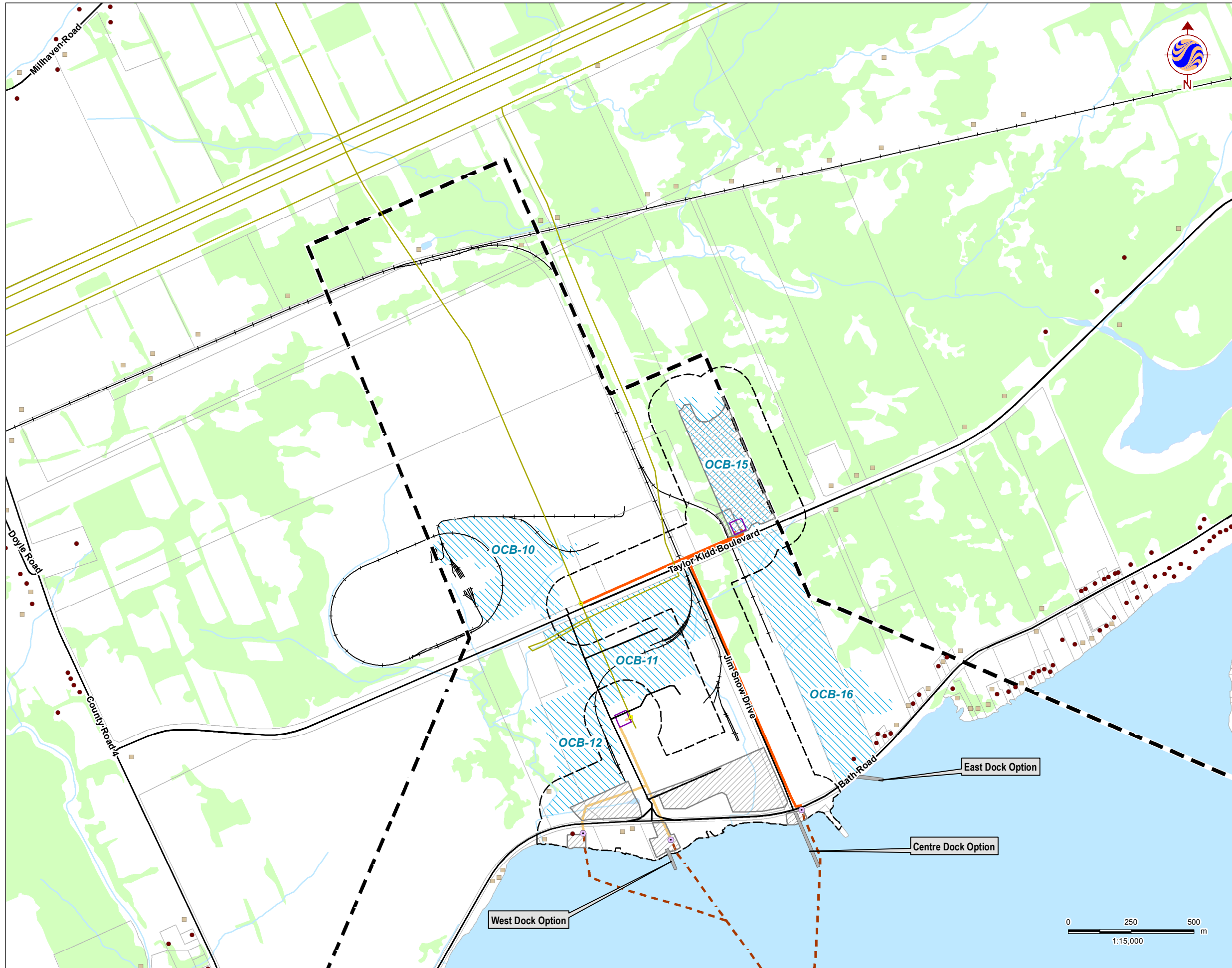
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Figure No.
4

Title
Significant Open Country Breeding Bird & Raptor Wintering Areas





Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors
- Existing Features
- Road
- Unopened Road
- Railway
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary
- Open Country Breeding Bird Area (OCB)
- Raptor Wintering Area (RWA)

Notes

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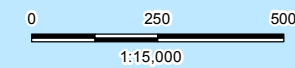
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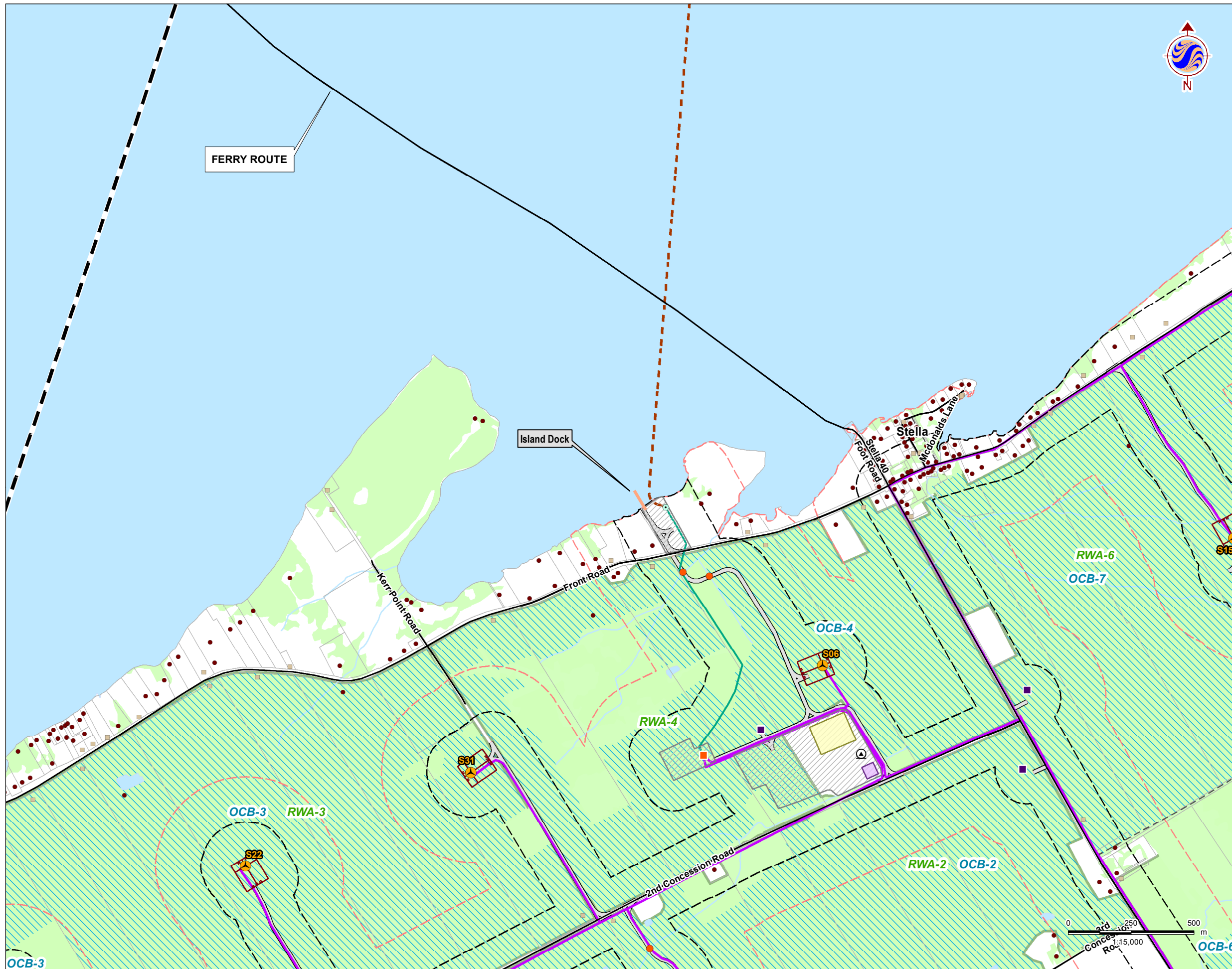
Figure No.

4.1

Title

**Significant Open Country Breeding
Bird & Raptor Wintering Areas**





Legend

- Project Study Area**
 - 300m Zone of Investigation
 - 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road
 - Collector Lines
 - Submarine Cable Path
 - Laydown Area and Crane Path
 - Operation and Maintenance Building (Potential Location)
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Aboveground Storage Tanks (Potential Location)
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
- Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
- Noise Receptors**
 - Existing
 - Vacant
- Existing Features**
 - Road
 - Unopened Road
 - Allowance
 - Railway
 - Hydro Line
 - Watercourse
 - Waterbody
 - Wooded Area
 - ANSI Boundary
 - Property Boundary
 - Open Country Breeding Bird Area (OCB)
 - Raptor Wintering Area (RWA)

- Notes**
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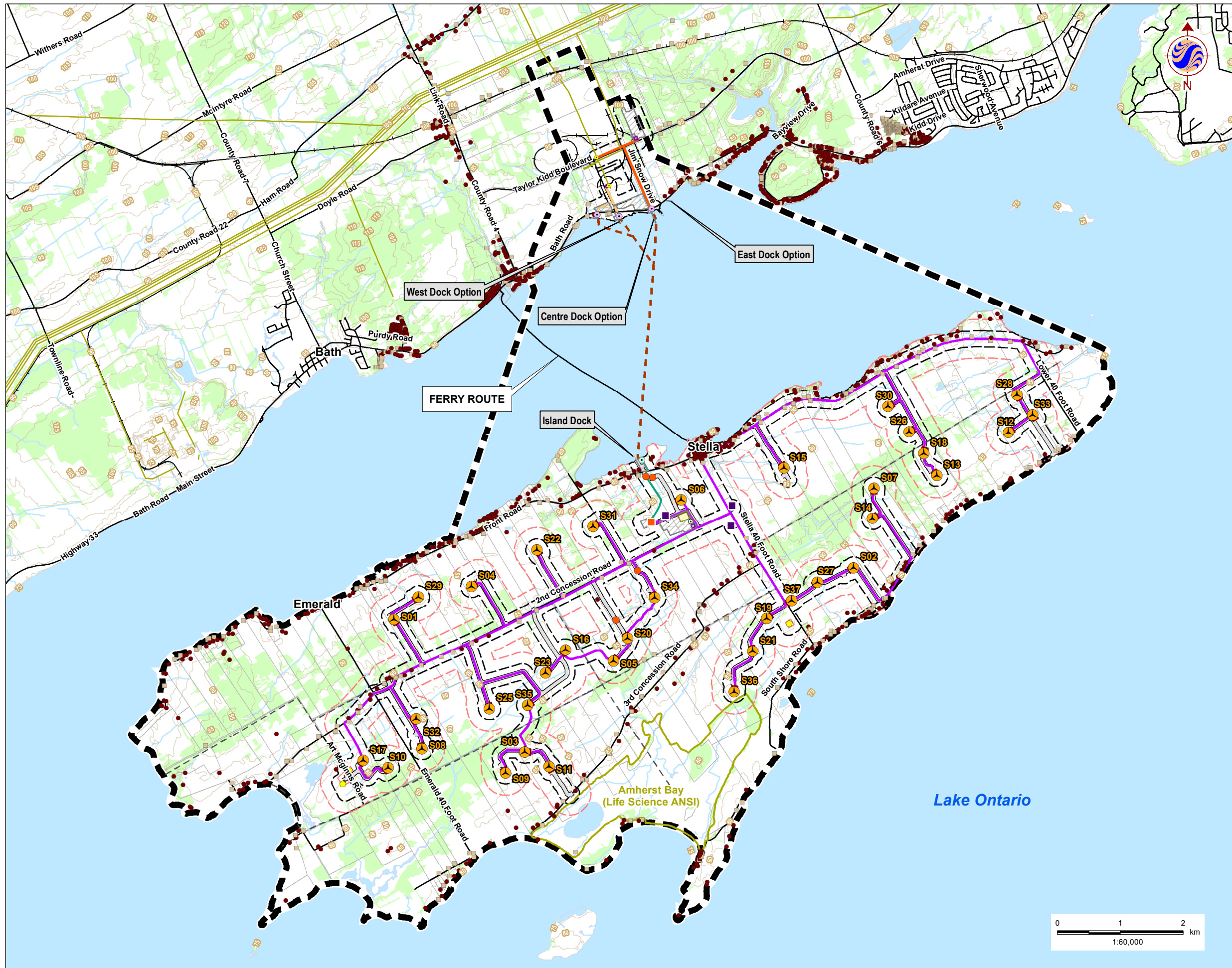
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Figure No.
4.2

Title
Significant Open Country Breeding Bird & Raptor Wintering Areas

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Revised: 2014-04-08 By: pworsell

Appendix A5:
Design and Operations Report



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

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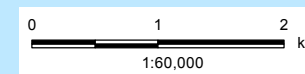
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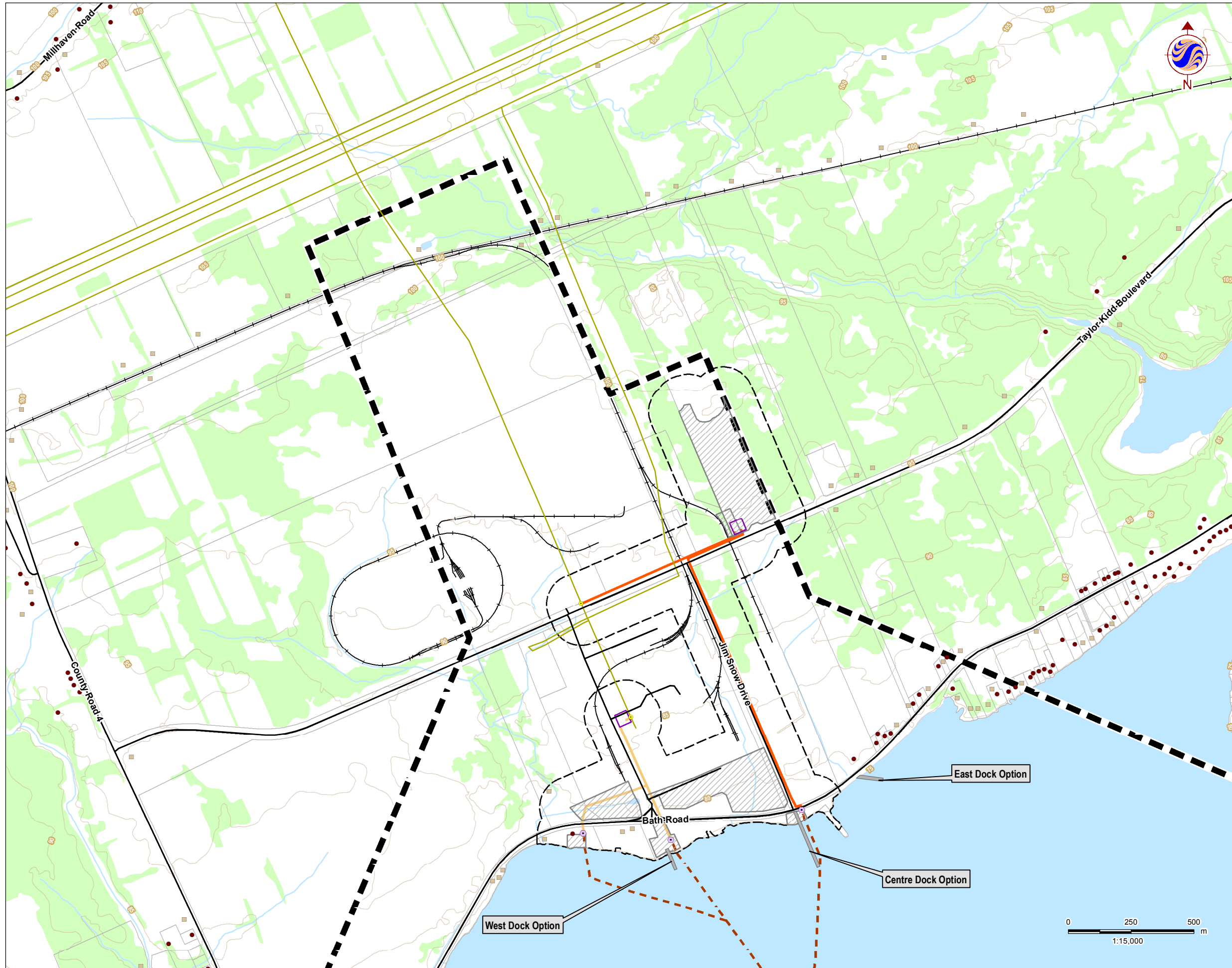
Figure No.

1

Title

Project Location & Study Area





Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes

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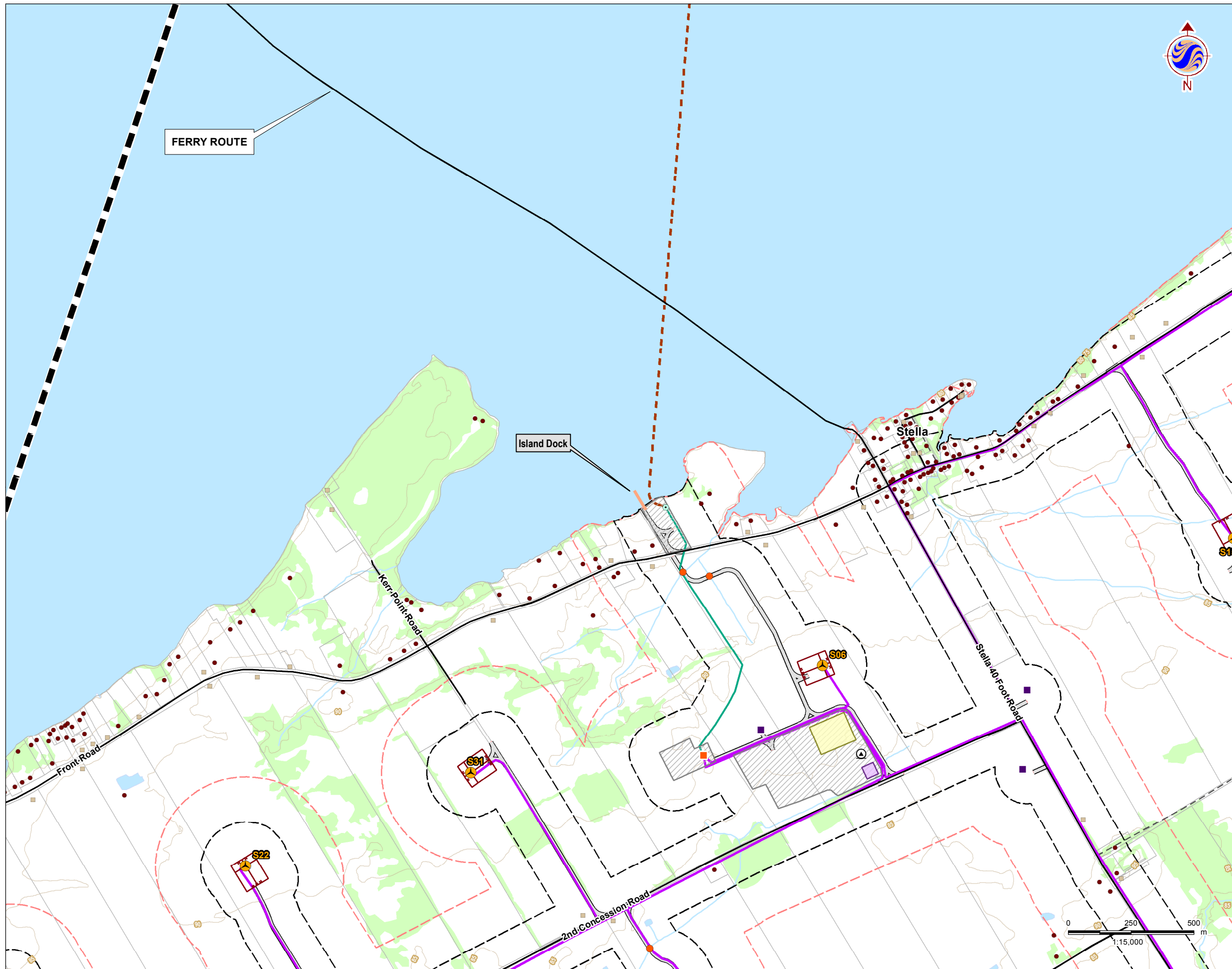
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Figure No.

1.1

Title

Project Location & Study Area



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes

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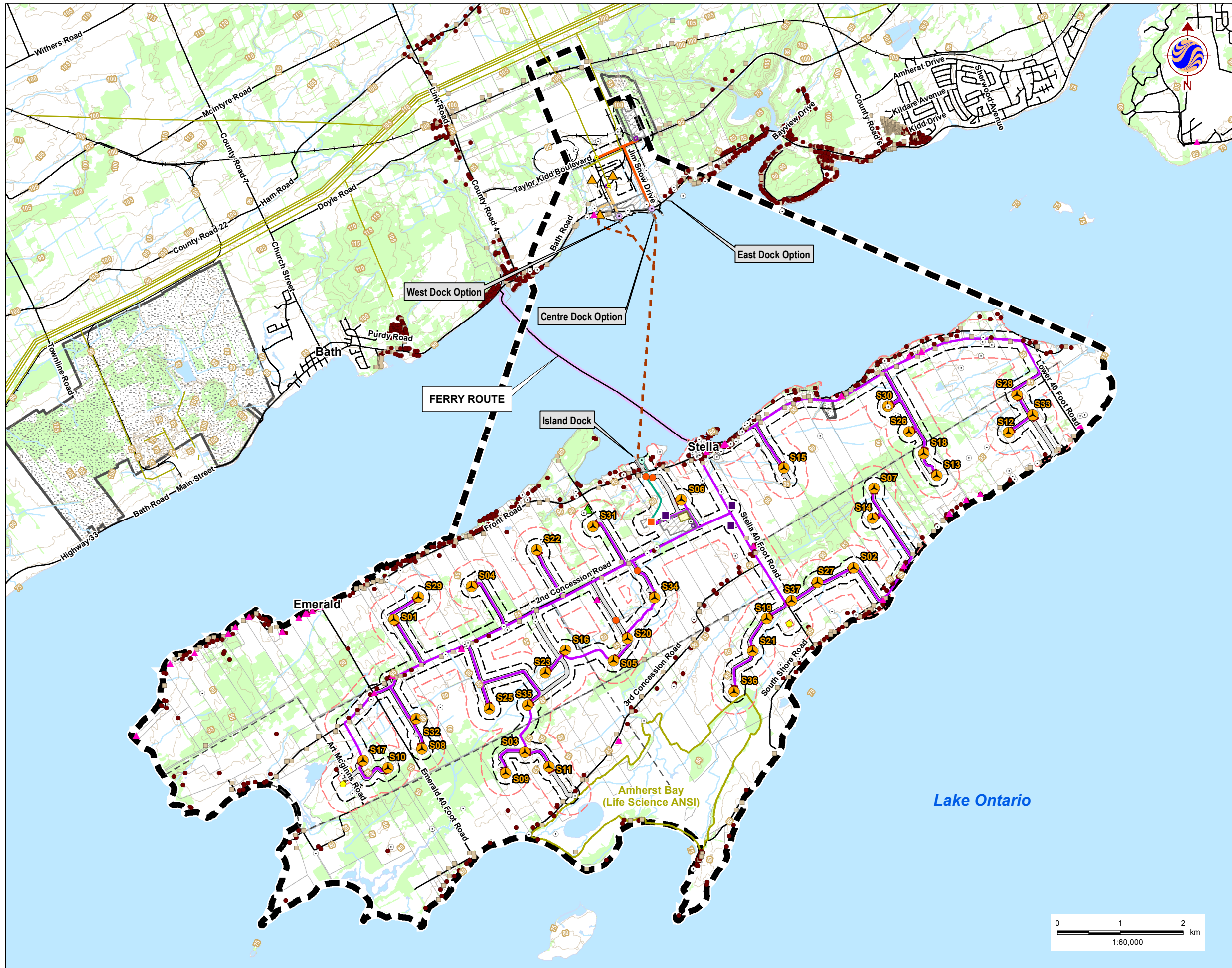
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Figure No.

1.2

Title

Project Location & Study Area



Legend

- Project Study
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road
 - Collector Lines
 - Submarine Cable Path
 - Laydown Area and Crane Path
 - Operation and Maintenance Building (Potential Location)
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Aboveground Storage Tanks (Potential Location)
- Constructible
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- Land Use**
 - Central Staging
 - Switching Station (Potential Location)
- Noise Receptors**
 - Existing
 - Vacant
- Existing Features**
 - Road
 - Unopened Road
 - Allowance
 - Railway
 - Elevation Contour (metres ASL)
 - Hydro Line
 - Watercourse
 - Waterbody
 - Wooded Area
 - Aggregate Site - Active
 - ANSI Boundary
 - Property Boundary
 - Landfill - Active
 - Landfill - Closed
 - Water Well Record
 - Built Heritage Resource
 - Ferry Landscape
 - Village of Stella



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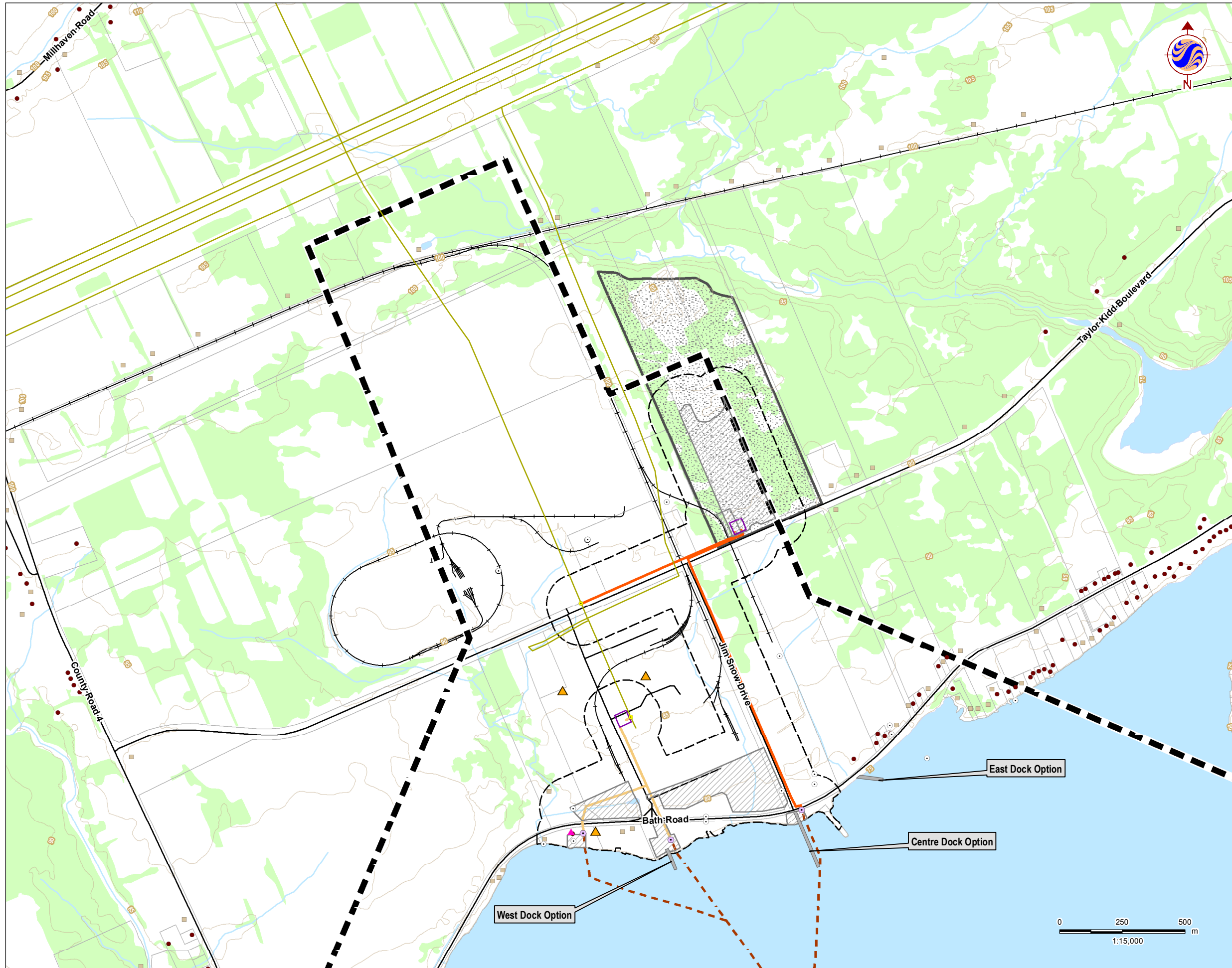
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 AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 2

Title
Socio-Economic Features - Overview



Legend

- | | | | |
|--|---|--|-------------------|
| | Project Study Area | | Noise Receptors |
| | 300m Zone of Investigation | | Noise Receptors |
| | 120m Zone of Investigation | | Existing Features |
| | Turbine | | Existing Features |
| | Met Tower (Potential Location) | | Existing Features |
| | Substation (Potential Location) | | Existing Features |
| | Access Road | | Existing Features |
| | Collector Lines | | Existing Features |
| | Submarine Cable Path | | Existing Features |
| | Laydown Area and Crane Path | | Existing Features |
| | Operation and Maintenance Building (Potential Location) | | Existing Features |
| | Potential Culvert Location | | Existing Features |
| | Point of Common Coupling | | Existing Features |
| | Mainland Cable Vault (Potential Location) | | Existing Features |
| | Island Cable Vault | | Existing Features |
| | Aboveground Storage Tanks (Potential Location) | | Existing Features |
| | Constructible Area | | Existing Features |
| | Mainland Dock (Potential Location) | | Existing Features |
| | Island Dock | | Existing Features |
| | Batch Plant (Potential Location) | | Existing Features |
| | Site Office (Potential Location) | | |
| | Storage Shed | | |
| | Mainland Option 1 | | |
| | Mainland Option 2 | | |
| | Island Transmission Line | | |
| | Central Staging Area | | |
| | Switching Station (Potential Location) | | |

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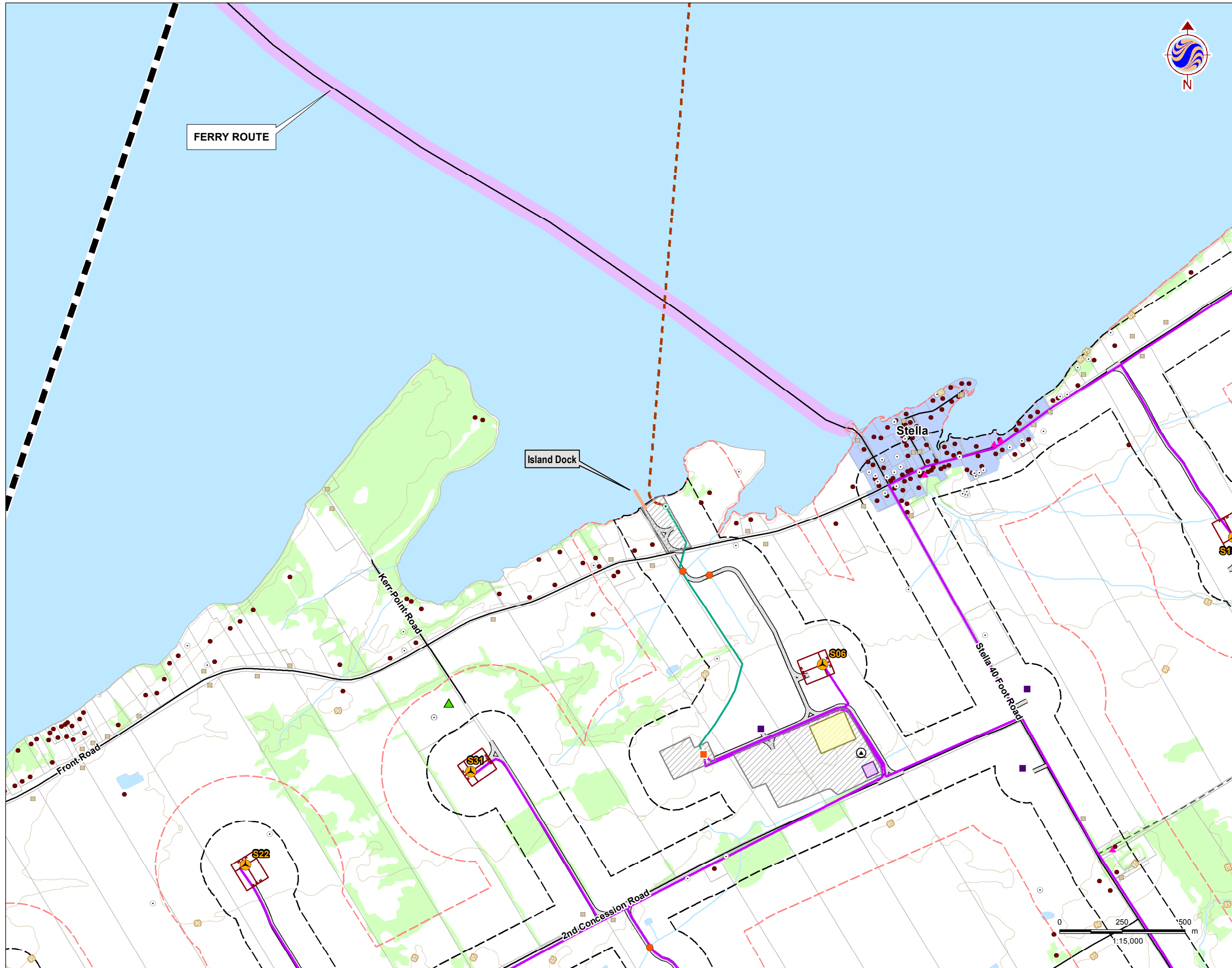
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AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

2.1

Title

Socio-Economic Features



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road
- Allowance
- Railway
- Elevation Contour (metres ASL)
- Watercourse
- Hydro Line
- Waterbody
- Wooded Area
- Aggregate Site - Active
- ANSI Boundary
- Property Boundary
- Water Well Record
- Built Heritage Resource
- Ferry Landscape
- Village of Stella
- Landfill - Active
- Landfill - Closed

Notes
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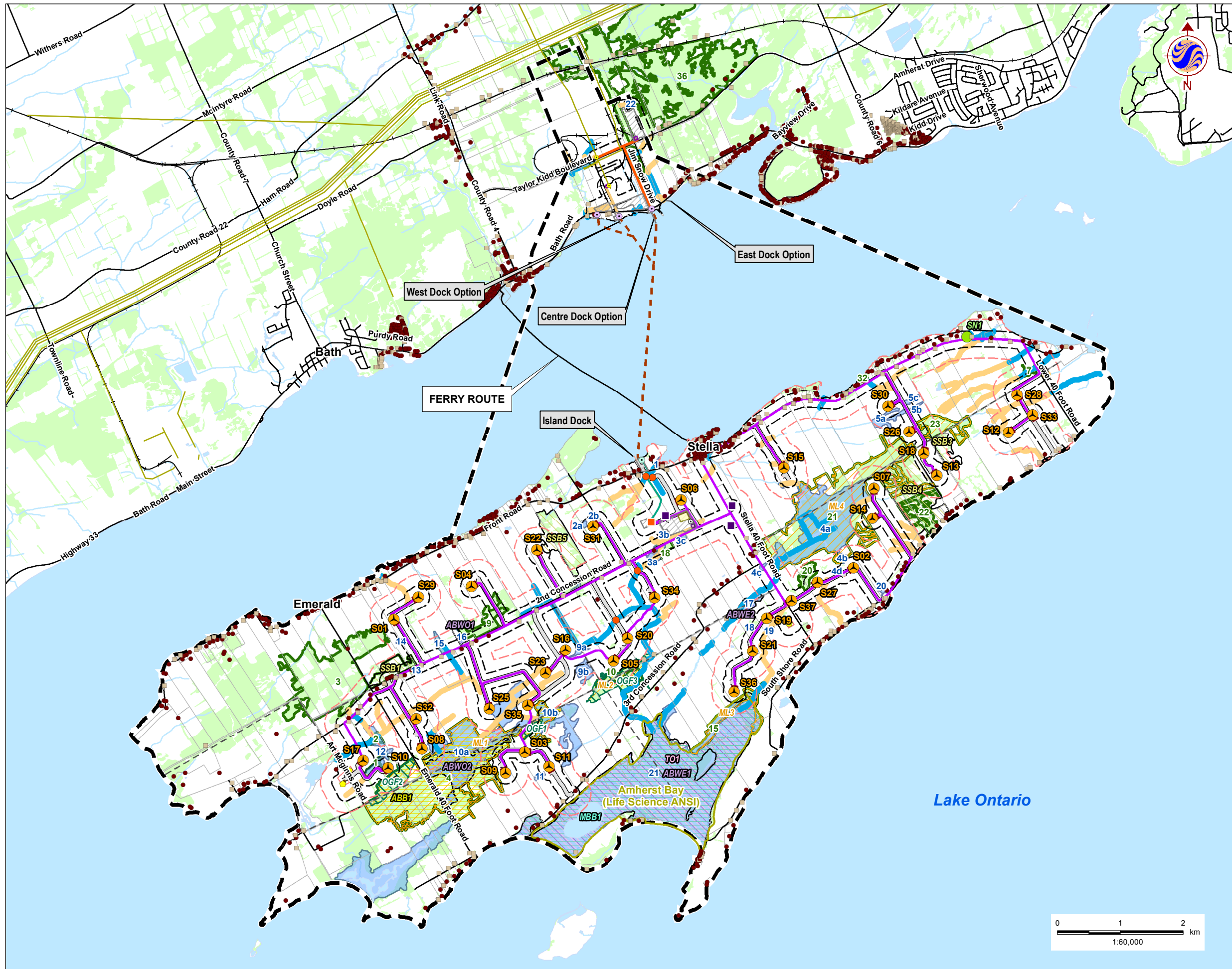
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Figure No.
 2. 2

Title
Socio-Economic Features



Legend

	Project Study Area		Noise Receptors
	300m Zone of Investigation		Noise Receptors
	120m Zone of Investigation		Existing Features
	Turbine		Existing Features
	Met Tower (Potential Location)		Existing Features
	Substation (Potential Location)		Existing Features
	Access Road		Existing Features
	Collector Lines		Existing Features
	Submarine Cable Path		Existing Features
	Laydown Area and Crane Path		Existing Features
	Operation and Maintenance Building (Potential Location)		Existing Features
	Potential Culvert Location		Existing Features
	Point of Common Coupling		RE Status
	Mainland Cable Vault (Potential Location)		RE Status
	Island Cable Vault		Significant Wildlife Habitat Features
	Aboveground Storage Tanks (Potential Location)		Significant Wildlife Habitat Features
	Constructible Area		Significant Wildlife Habitat Features
	Mainland Dock (Potential Location)		Significant Wildlife Habitat Features
	Island Dock		Significant Wildlife Habitat Features
	Batch Plant (Potential Location)		Significant Wildlife Habitat Features
	Site Office (Potential Location)		Significant Wildlife Habitat Features
	Storage Shed		Significant Wildlife Habitat Features
	Mainland Option 1		Significant Wildlife Habitat Features
	Mainland Option 2		Significant Wildlife Habitat Features
	Island Transmission Line		Significant Wildlife Habitat Features
	Central Staging Area		
	Switching Station (Potential Location)		

Notes

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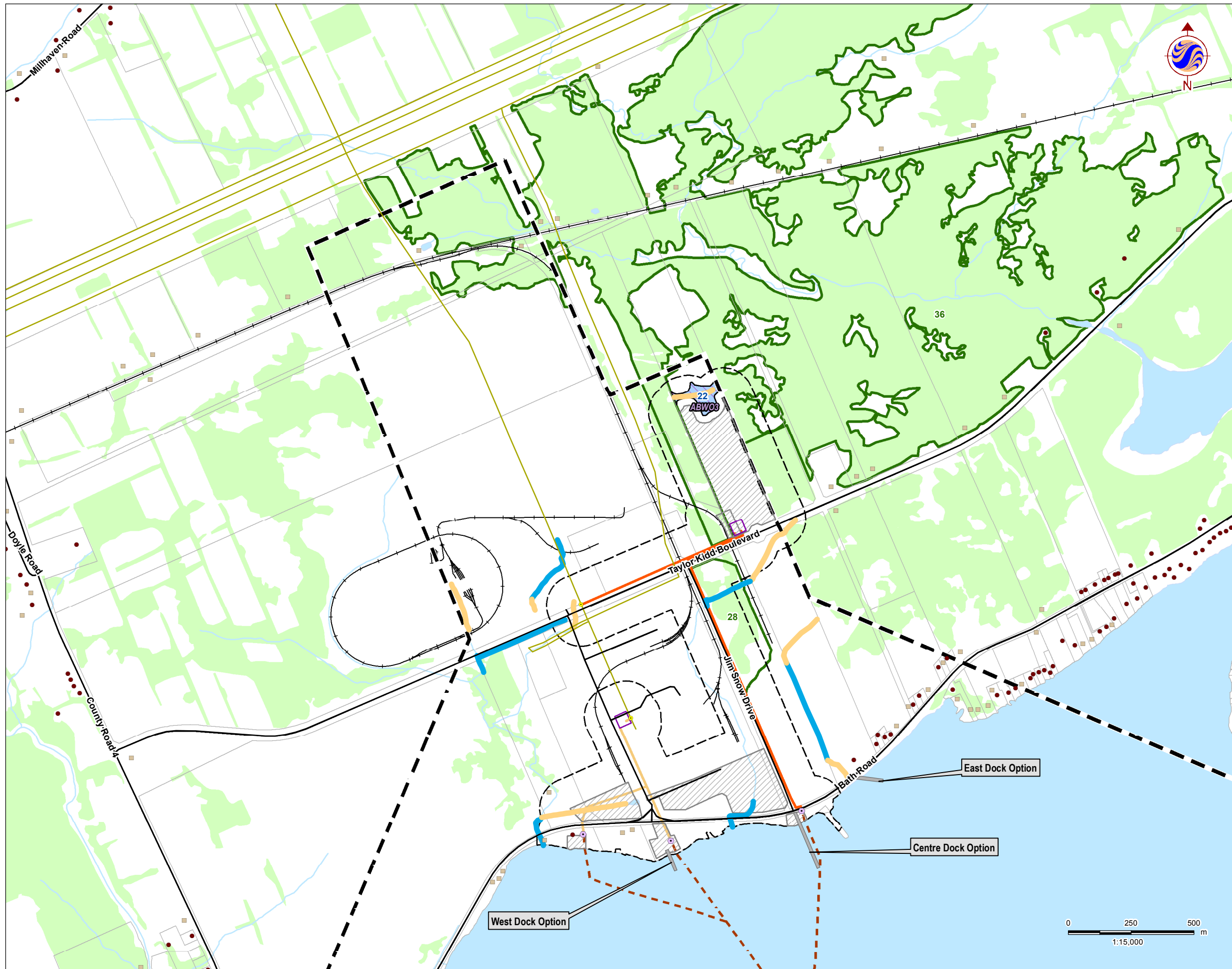
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Figure No.
3

Title
**Significant Natural Features,
Wildlife Habitat and Waterbodies -
Overview**



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road
 - Collector Lines
 - Submarine Cable Path
 - Laydown Area and Crane Path
 - Operation and Maintenance Building (Potential Location)
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Aboveground Storage Tanks (Potential Location)
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
- Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
- Noise Receptors**
 - Existing
 - Vacant
- Existing Features**
 - Road
 - Unopened Road
 - Allowance
 - Railway
 - Hydro Line
 - Watercourse
 - Waterbody
 - Wooded Area
 - ANSI Boundary
 - Property Boundary
- REA Status**
 - REA Water Body
 - Not a REA Water Body
- Significant Wildlife Habitat Features**
 - Snake Hibernacula (SN)
 - Amphibian Breeding (ABWO & ABWE)
 - Area-Sensitive Breeding Bird (ABB)
 - Marsh Breeding Bird (MBB)
 - Shrub/Early Successional Bird Breeding (SSB)
 - Turtle Overwintering (TO)
 - Landbird Migratory Stopover Area (ML)
 - Waterfowl Stopover & Staging - Terrestrial (WT)
 - Old Growth Forest (OGF)
 - Significant Wetland
 - Significant Woodland

Notes

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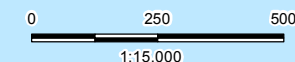
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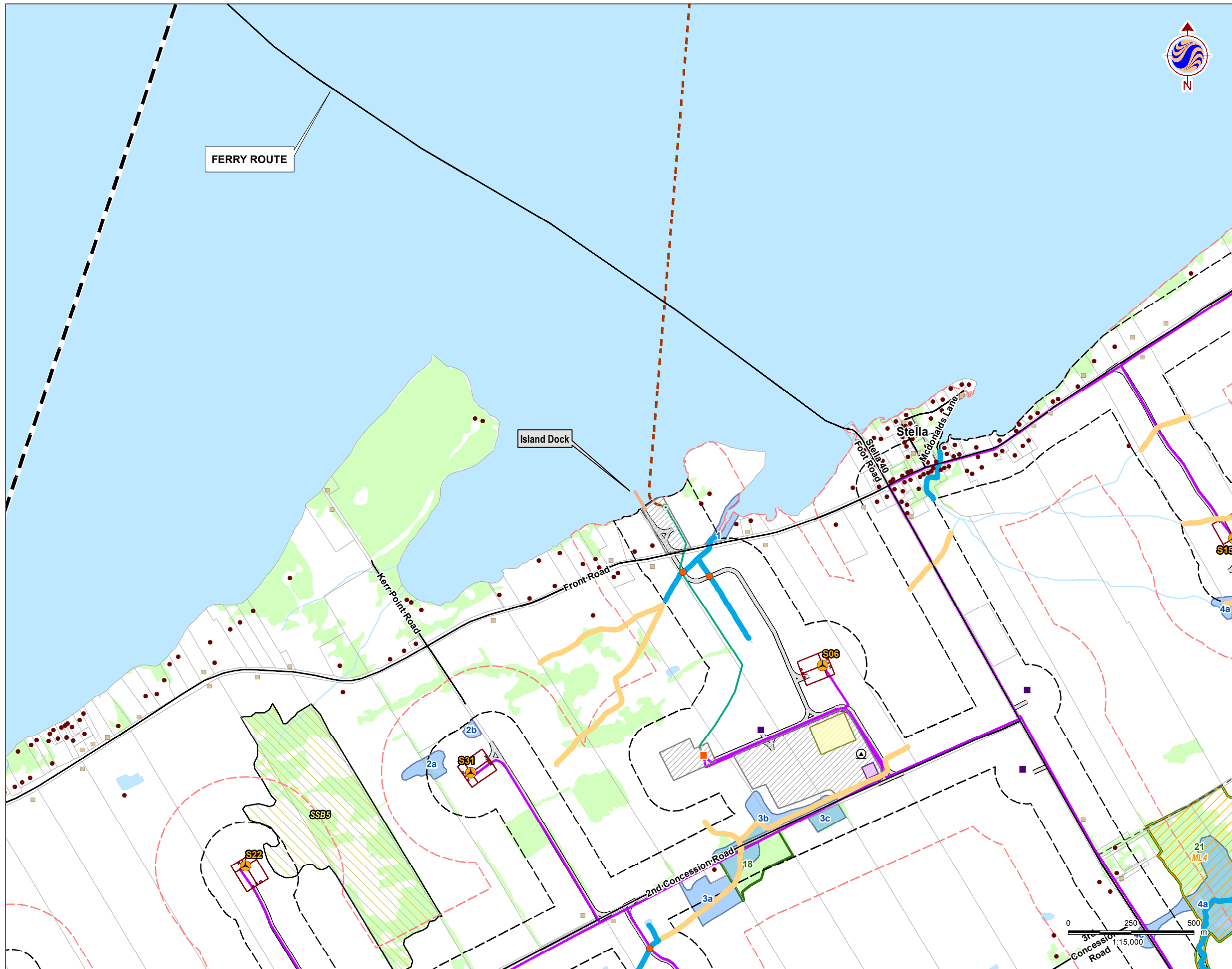
Figure No.

3.1

Title

**Significant Natural Features,
Wildlife Habitat and Waterbodies**





Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road
- Allowance
- Railway
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary
- REA Status**
- REA Water Body
- Not a REA Water Body
- Significant Wildlife Habitat Features**
- Snake Hibernacula (SN)
- Amphibian Breeding (ABWO & ABWE)
- Area-Sensitive Breeding Bird (ABB)
- Marsh Breeding Bird (MBB)
- Shrub/Early Successional Bird Breeding (SSB)
- Turtle Overwintering (TO)
- Landbird Migratory Stopover Area (ML)
- Waterfowl Stopover & Staging - Terrestrial (WT)
- Old Growth Forest (OGF)
- Significant Wetland
- Significant Woodland

Notes

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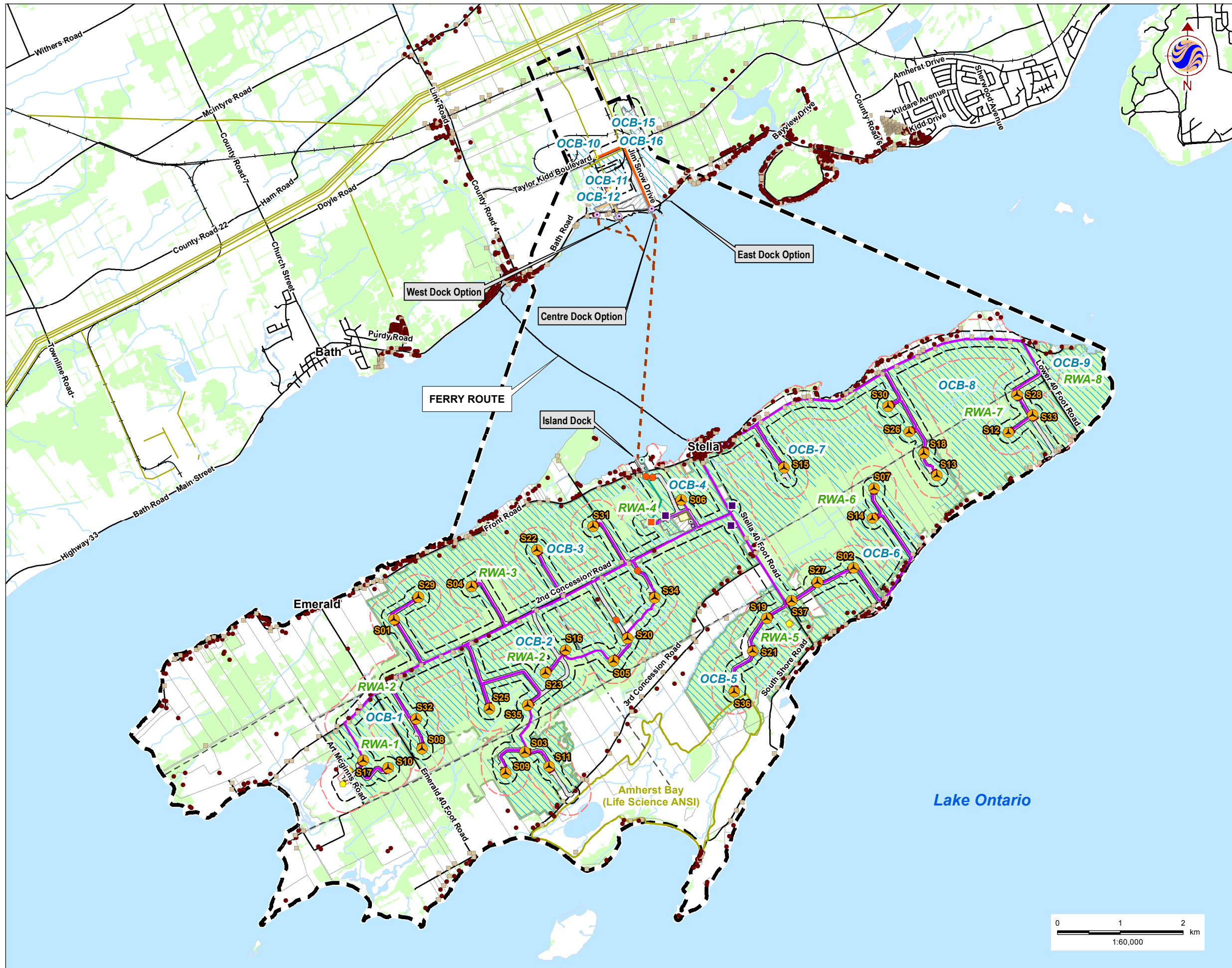
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Figure No.

3.2

Title

**Significant Natural Features,
Wildlife Habitat and Waterbodies**



Legend

	Project Study Area		Noise Receptors
	300m Zone of Investigation		Noise Receptors
	120m Zone of Investigation		Existing Features
	Turbine		Existing Features
	Met Tower (Potential Location)		Existing Features
	Substation (Potential Location)		Existing Features
	Access Road		Existing Features
	Collector Lines		Existing Features
	Submarine Cable Path		Existing Features
	Laydown Area and Crane Path		Existing Features
	Operation and Maintenance Building (Potential Location)		Existing Features
	Potential Culvert Location		Existing Features
	Point of Common Coupling		Existing Features
	Mainland Cable Vault (Potential Location)		
	Island Cable Vault		
	Aboveground Storage Tanks (Potential Location)		
	Constructible Area		
	Mainland Dock (Potential Location)		
	Island Dock		
	Batch Plant (Potential Location)		
	Site Office (Potential Location)		
	Storage Shed		
	Mainland Option 1		
	Mainland Option 2		
	Island Transmission Line		
	Central Staging Area		
	Switching Station (Potential Location)		

Notes

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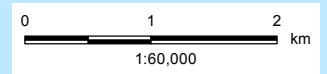
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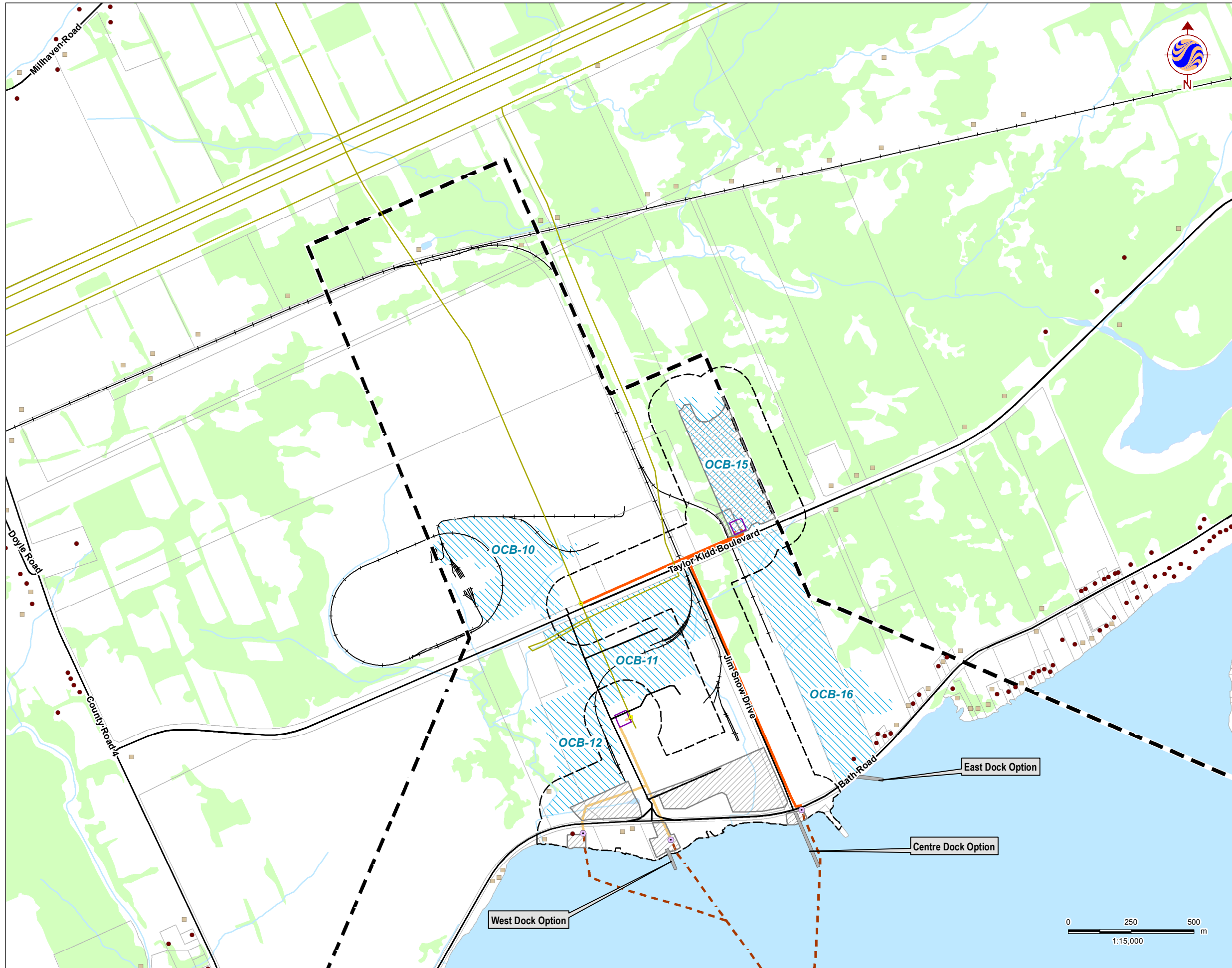
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Figure No.
4

Title
Significant Open Country Breeding Bird & Raptor Wintering Areas



\\cd1220-102101609\active\60960595\drawing\MXD\APC\PD\160960595_Fig4_SignificantRaptor_BreedingBird_Areas_Overview_20140408.mxd
Revised: 2014-04-08 By: pworsell



Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Property Boundary
- Open Country Breeding Bird Area (OCB)
- Raptor Wintering Area (RWA)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road
- Railway
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary
- Open Country Breeding Bird Area (OCB)
- Raptor Wintering Area (RWA)

Notes

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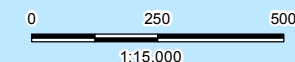
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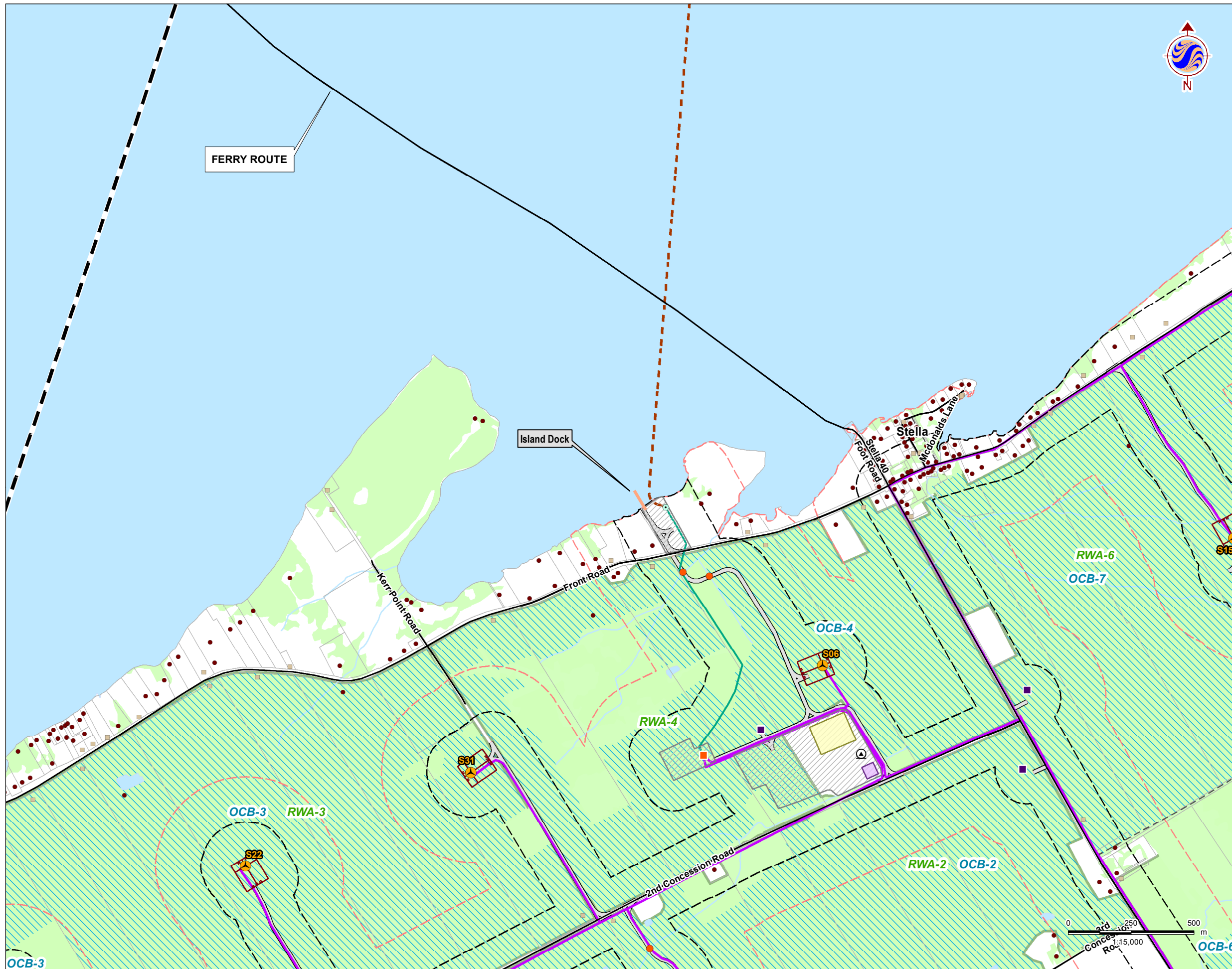
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Figure No.
4.1

Title

**Significant Open Country Breeding
Bird & Raptor Wintering Areas**





Legend

- Project Study Area
- 300m Zone of Investigation
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Noise Receptors**
- Existing
- Vacant
- Existing Features**
- Road
- Unopened Road
- Allowance
- Railway
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary
- Open Country Breeding Bird Area (OCB)
- Raptor Wintering Area (RWA)

Notes

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Figure No.
4.2

Title

Significant Open Country Breeding Bird & Raptor Wintering Areas

Appendix A6:
Protected Properties Assessment



Legend

- Project Study Area
- 120m Zone of Investigation
- Protected Property
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Collector Lines
 - Access Road
 - Submarine Cable Path
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Turbine Blade Tips
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
 - Operation and Maintenance Building (Potential Location)
- TransmissionLine**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
- Existing Features**
 - Road
 - Unopened Road Allowance
 - Railway
 - Watercourse
 - Property Boundaries

Notes

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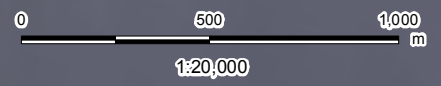
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Figure No.
3

Title
Site Plan & Location of Protected Properties
(Central Portion)





- ### Legend
- Project Study Area
 - 120m Zone of Investigation
 - Protected Property
 - Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Collector Lines
 - Access Road
 - Submarine Cable Path
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Turbine Blade Tips
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
 - Operation and Maintenance Building (Potential Location)
 - TransmissionLine**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
 - Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
 - Existing Features**
 - Road
 - Unopened Road Allowance
 - Railway
 - Watercourse
 - Property Boundaries

- ### Notes
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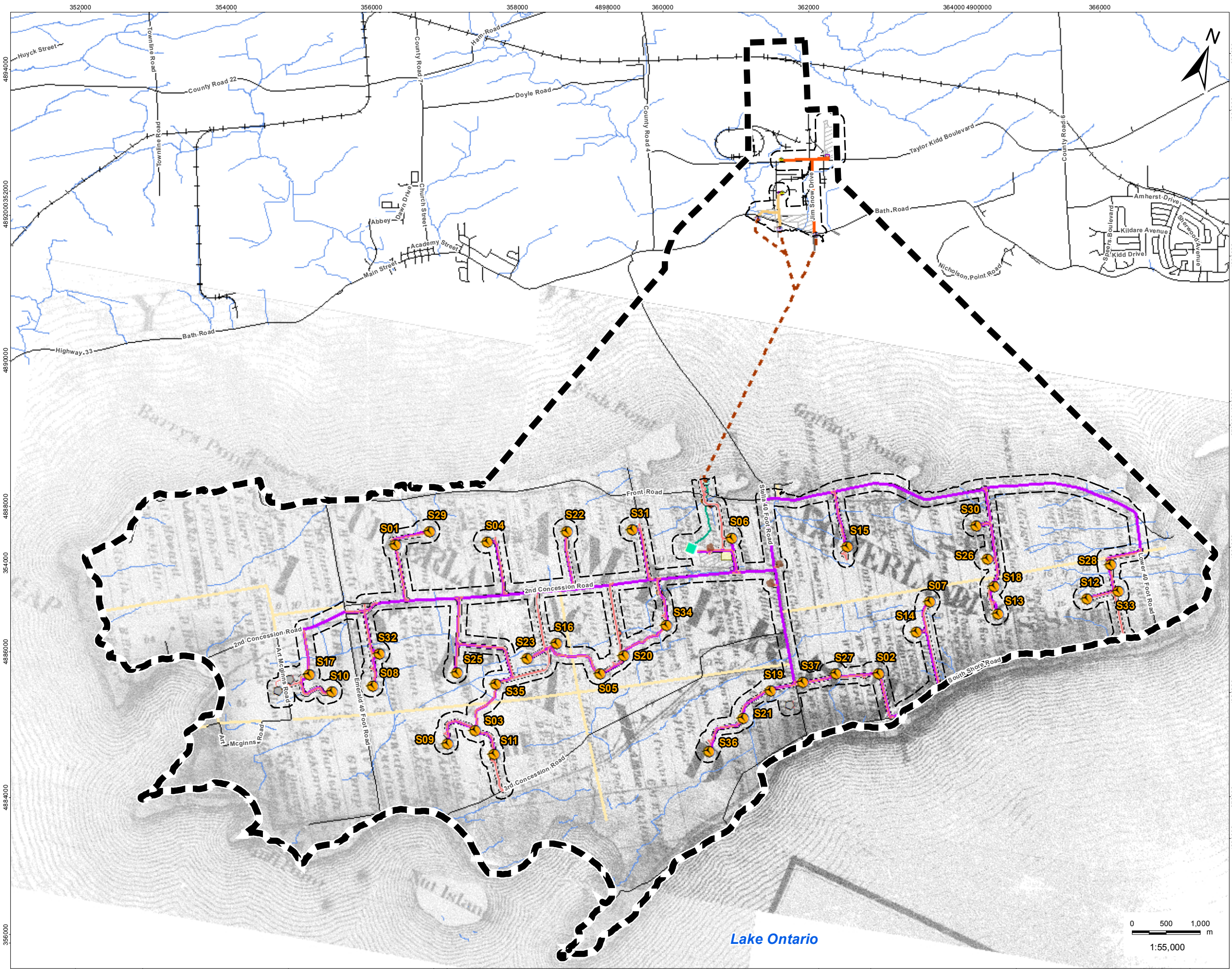
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Figure No.
5

Title
Site Plan & Location of Protected Properties
(Mainland Portion)



- ### Legend
- Project Study Area
 - 120m Zone of Investigation
 - Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Collector Lines
 - Access Road
 - Submarine Cable Path
 - Laydown Area and Crane Pad
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Turbine Blade Tips
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
 - Operation and Maintenance Building (Potential Location)
 - TransmissionLine**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
 - Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
 - Existing Features**
 - Road
 - Unopened Road Allowance
 - Railway
 - Watercourse

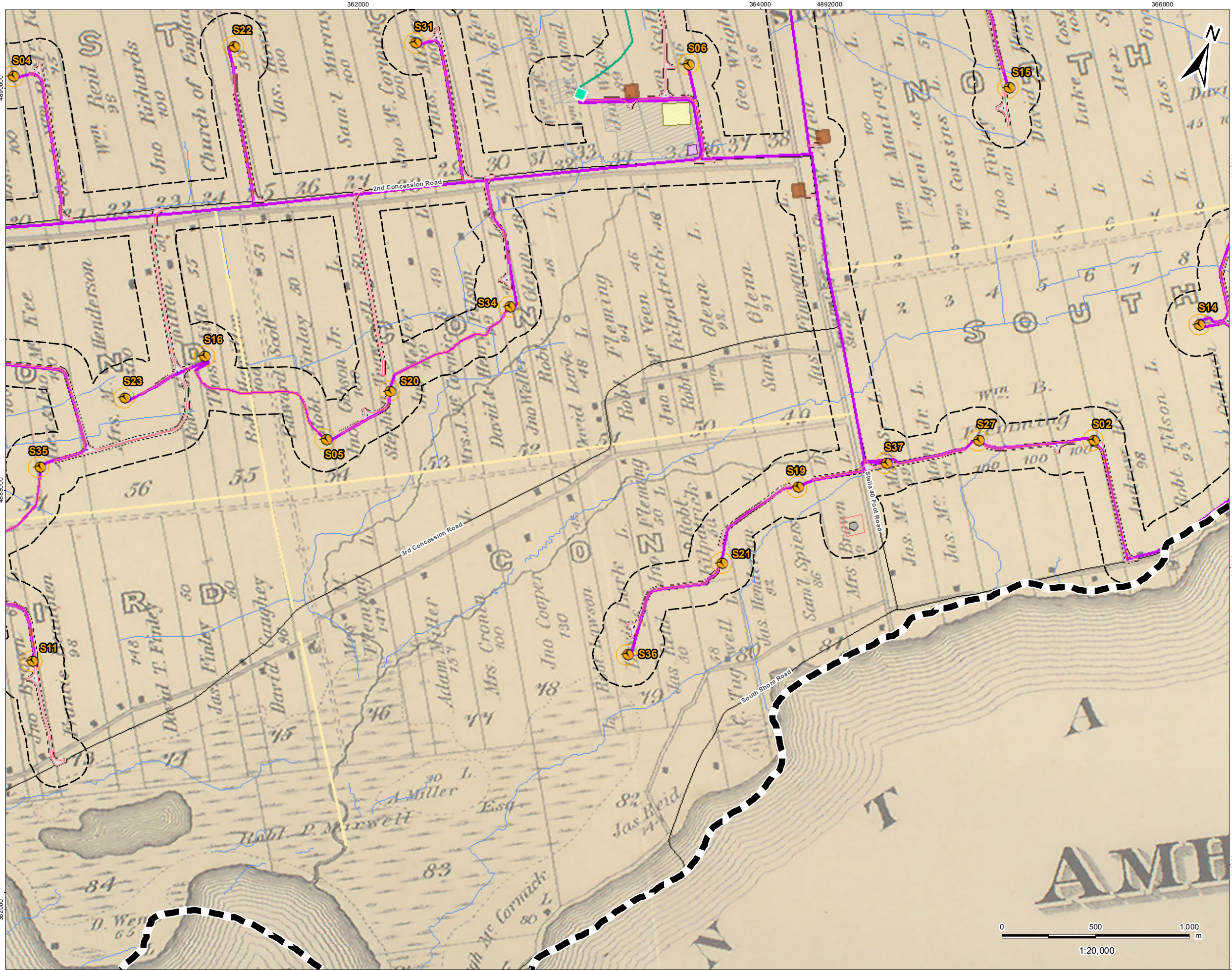
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Figure No.
6

Title
Walling's 1860 Historic Mapping of Amherst Island Overlaid by Project Components



Legend

Project Components

- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Laydown Area and Crane Pad
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)

Transmission Line

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Land Use

- Central Staging Area
- Switching Station (Potential Location)

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse

Notes

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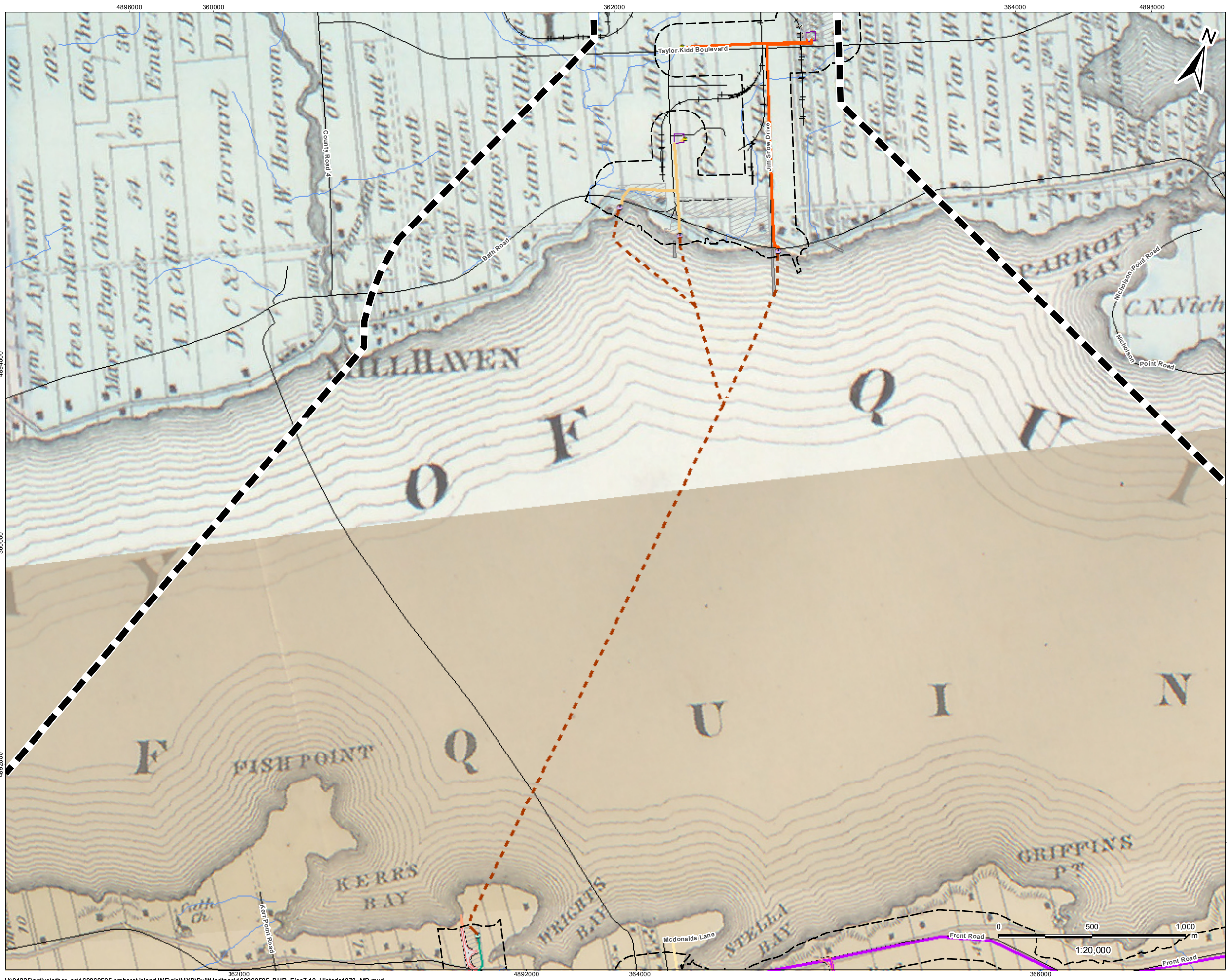


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Figure No.
8

Title
Meacham's 1878 Historic Mapping Overlaid by Project Components (Central Portion)



Legend

Project Study Area
 120m Zone of Investigation

Project Components

- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Laydown Area and Crane Pad
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)

TransmissionLine

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Land Use

- Central Staging Area
- Switching Station (Potential Location)

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse

Notes

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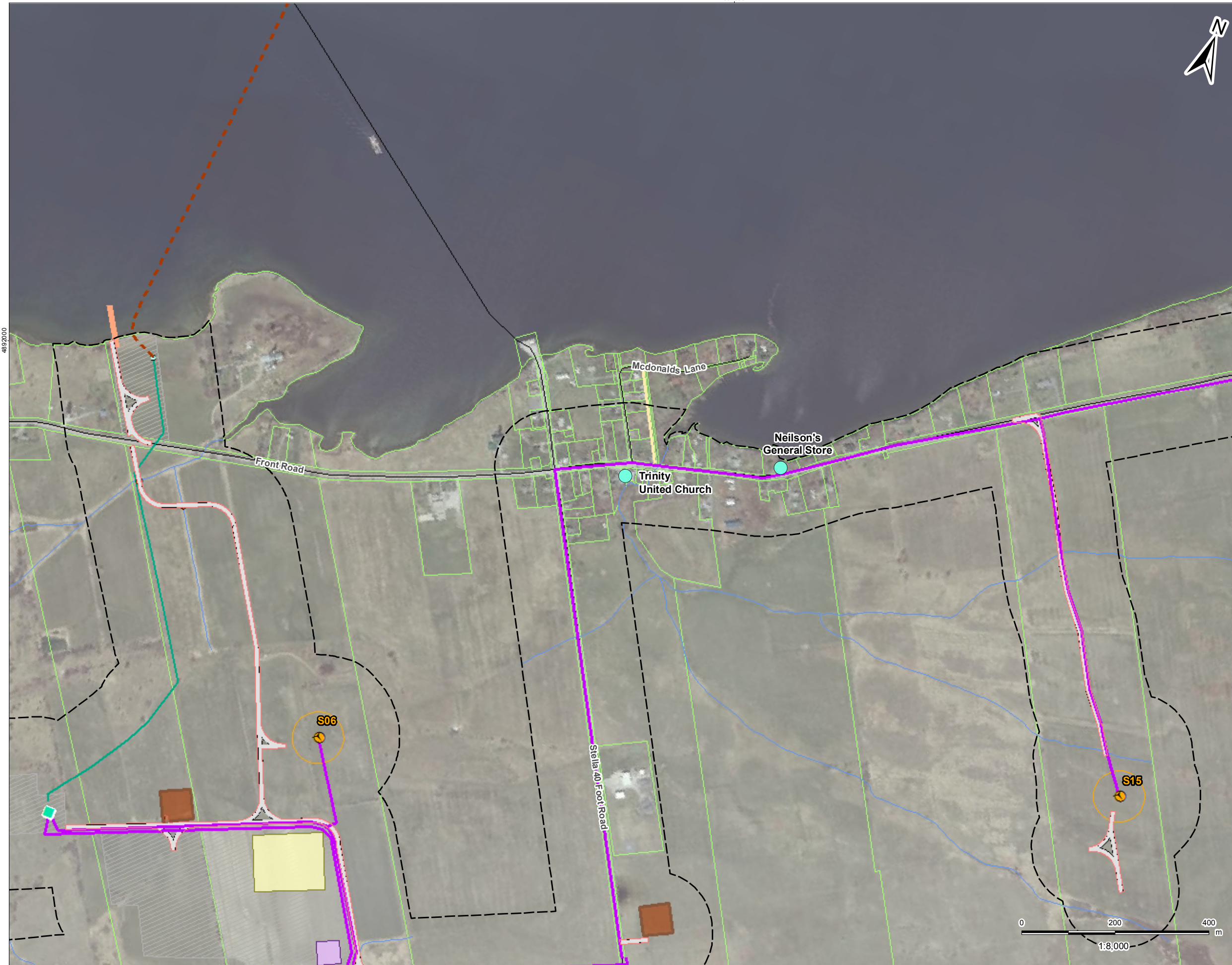
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Figure No.
10

Title
Meacham's 1878 Historic Mapping Overlaid
by Project Components (Mainland Portion)



Legend

- Project Study Area
- 120m Zone of Investigation
- Protected Property
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)
- TransmissionLine**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Boundaries

Notes

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Figure No.

11

Title

Site Plan & Location of Protected Properties
(Detail of the Village of Stella)

Appendix A7:
Stage 1 Archaeological Assessment



Legend

Project Study Area

- 120m Zone of Investigation

Project Components

- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Laydown Area and Crane Pad
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)

TransmissionLine

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Land Use

- Central Staging Area
- Switching Station (Potential Location)

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse

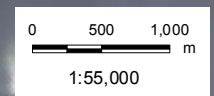
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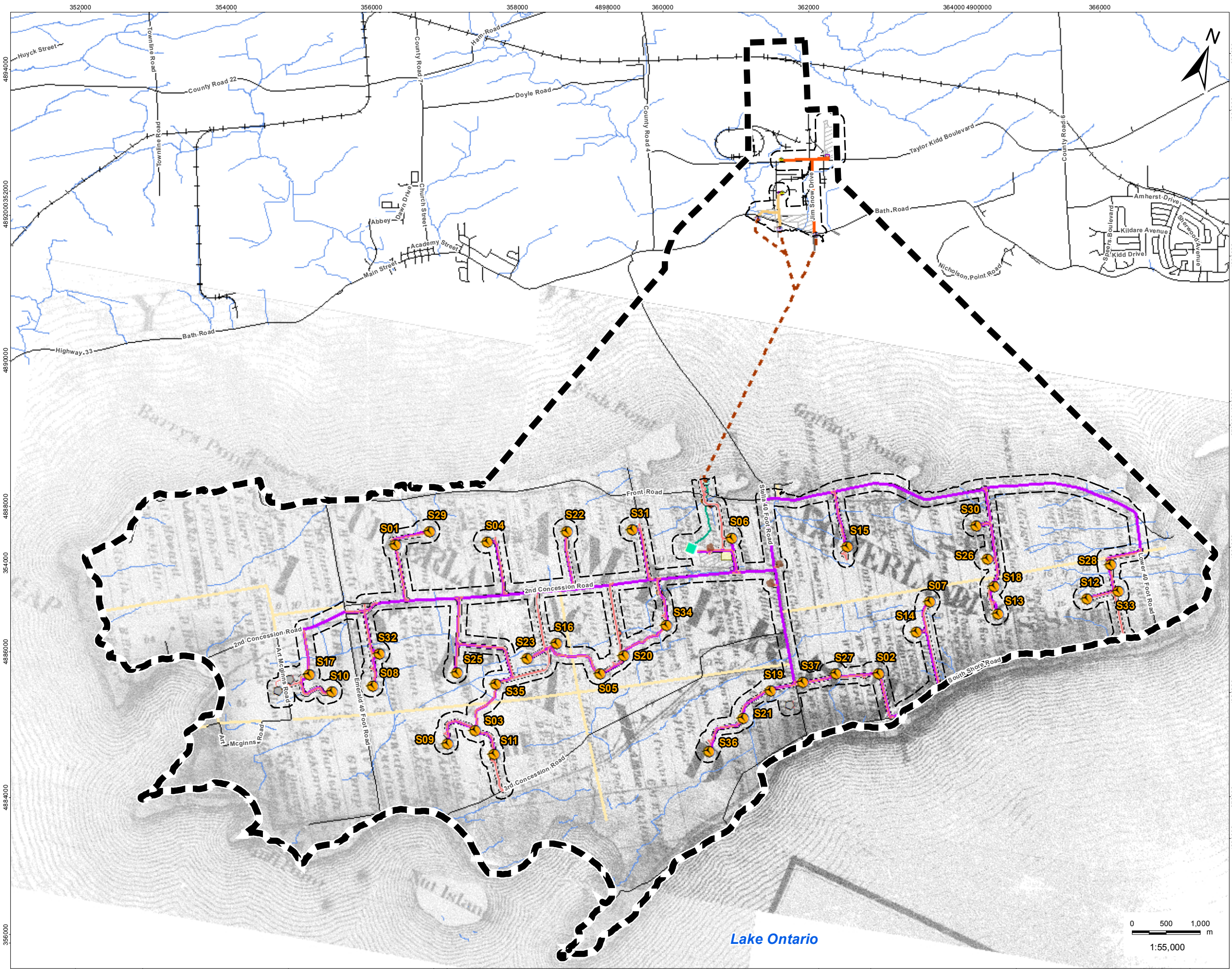
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Figure No.	2
Title	Site Plan





Legend

- Project Study Area
- 120m Zone of Investigation
- Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Collector Lines
 - Access Road
 - Submarine Cable Path
 - Laydown Area and Crane Pad
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Turbine Blade Tips
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
 - Operation and Maintenance Building (Potential Location)
- TransmissionLine**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
- Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
- Existing Features**
 - Road
 - Unopened Road Allowance
 - Railway
 - Watercourse

Notes

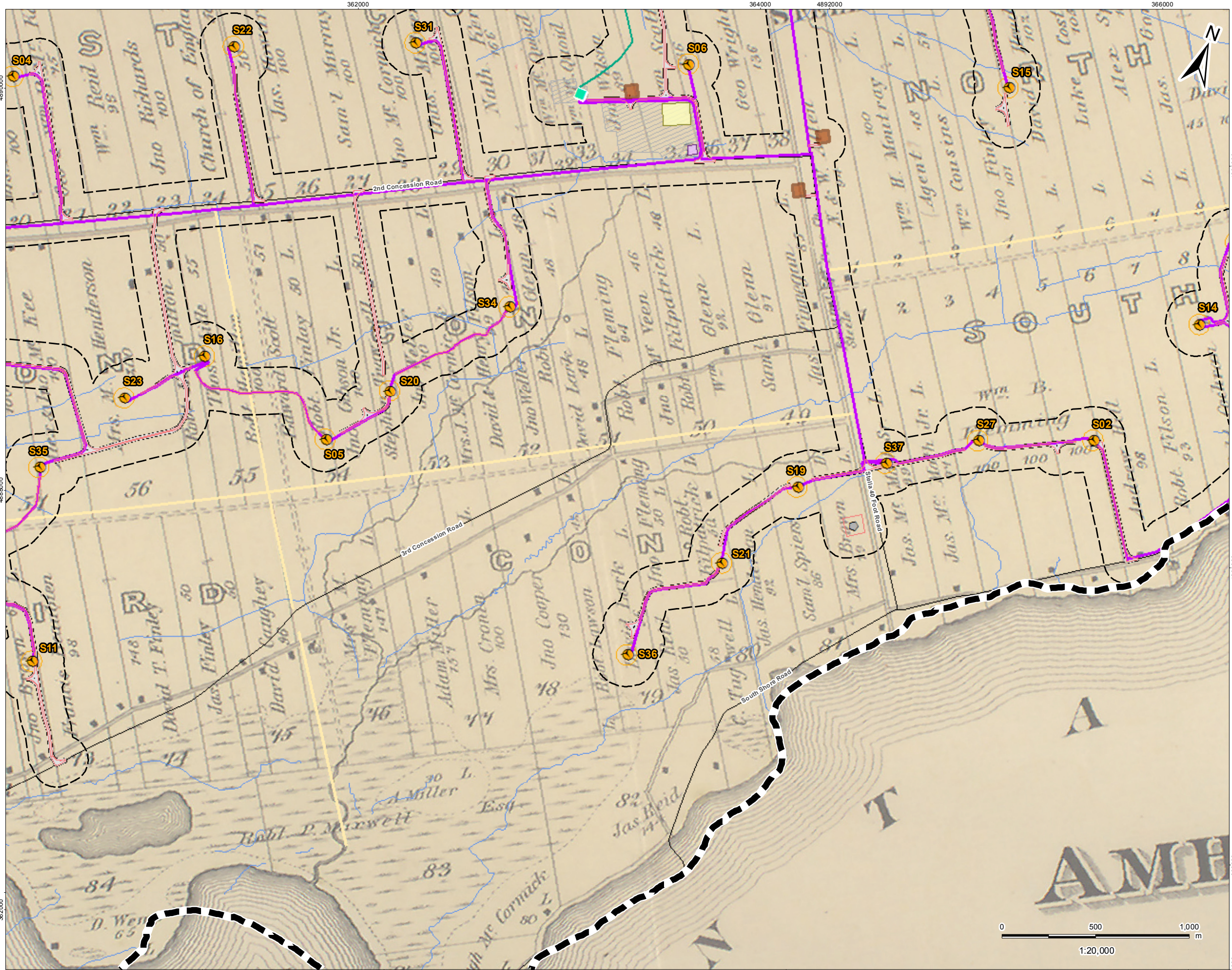
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Figure No.
5

Title
Walling's 1860 Historic Mapping of Amherst Island Overlaid by Project Components



Legend

Project Components

- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Laydown Area and Crane Pad
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)

TransmissionLine

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Land Use

- Central Staging Area
- Switching Station (Potential Location)

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse

Notes

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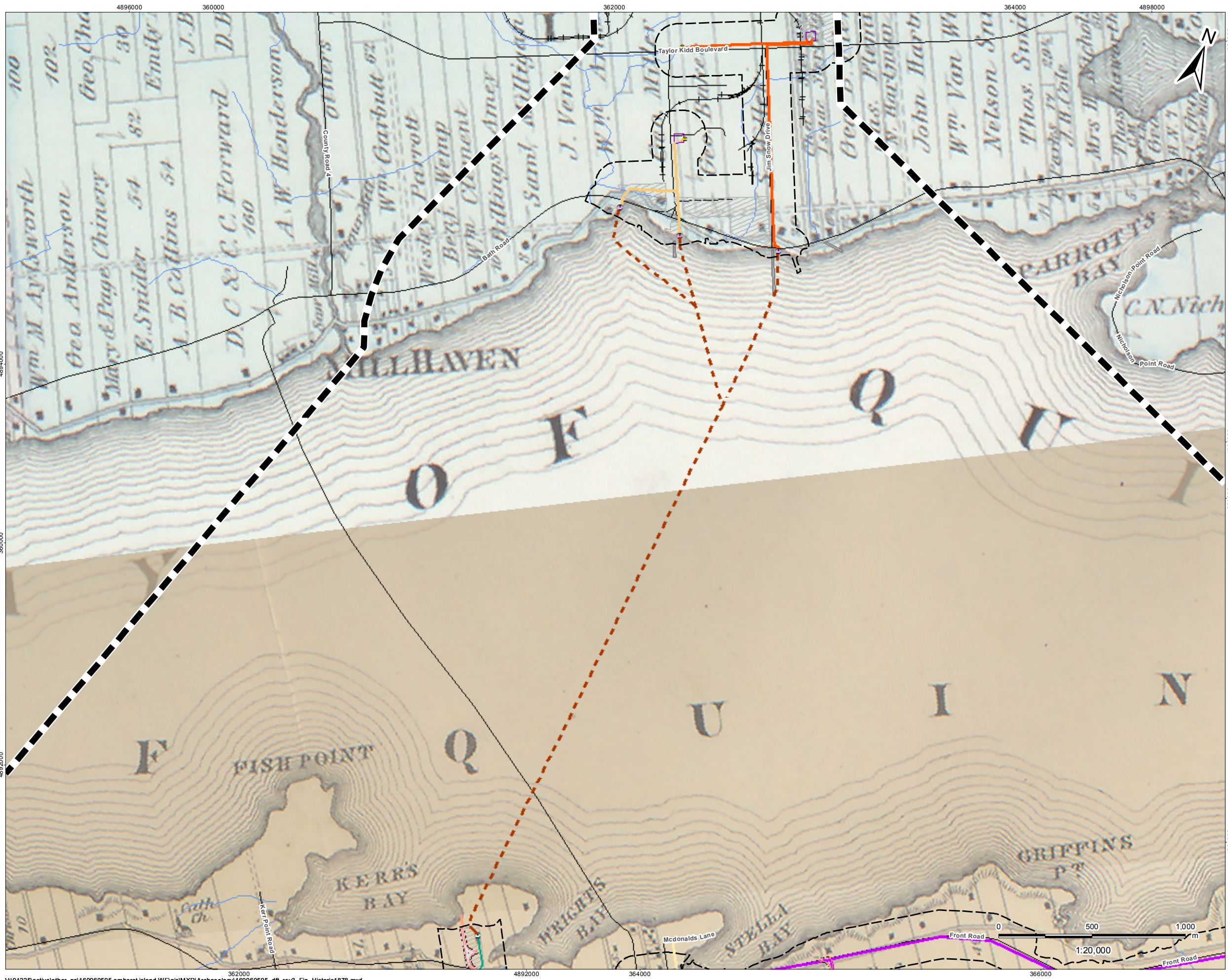


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Figure No.
7

Title

Meacham's 1878 Historic Mapping Overlaid by Project Components (Central Portion)



- ### Legend
- Project Study Area
 - 120m Zone of Investigation
 - Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Collector Lines
 - Access Road
 - Submarine Cable Path
 - Laydown Area and Crane Pad
 - Potential Culvert Location
 - Point of Common Coupling
 - Mainland Cable Vault (Potential Location)
 - Island Cable Vault
 - Turbine Blade Tips
 - Constructible Area
 - Mainland Dock (Potential Location)
 - Island Dock
 - Batch Plant (Potential Location)
 - Site Office (Potential Location)
 - Storage Shed
 - Operation and Maintenance Building (Potential Location)
 - TransmissionLine**
 - Mainland Option1
 - Mainland Option 2
 - Island Transmission Line
 - Land Use**
 - Central Staging Area
 - Switching Station (Potential Location)
 - Existing Features**
 - Road
 - Unopened Road Allowance
 - Railway
 - Watercourse

Notes

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Figure No.
9

Title
Meacham's 1878 Historic Mapping Overlaid
by Project Components (Mainland Portion)

Appendix A8:
Stage 2 Archaeological Assessment



Legend

Project Study Area

- 120m Zone of Investigation

Project Components

- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Collector Lines
- Access Road
- Submarine Cable Path
- Laydown Area and Crane Pad
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Turbine Blade Tips
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Operation and Maintenance Building (Potential Location)

TransmissionLine

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Land Use

- Central Staging Area
- Switching Station (Potential Location)

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse

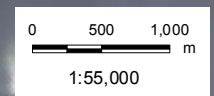
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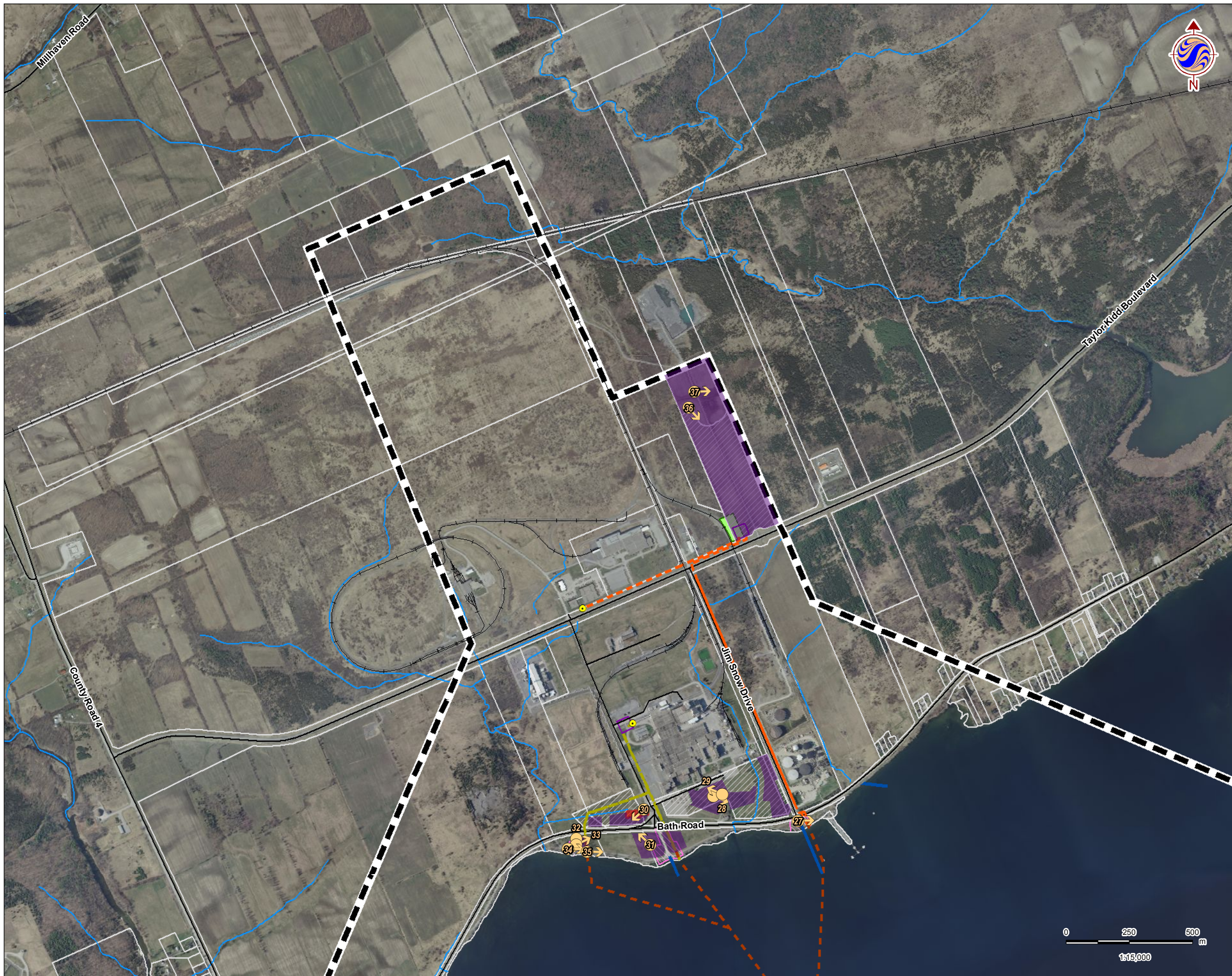
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Figure No.	2
Title	Site Plan





Legend

- Study Area
- 120m Zone of Investigation
- Photo Location

Project Components

- Turbine
- Met Tower
- Access Road
- Collector Lines
- Laydown Area and Crane Path
- Submarine Cable Path
- Dock Footprint
- Laydown and Storage Area (Potential Location)
- Operation and Maintenance Building (Potential Location)
- Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling

Transmission Lines

- Overhead - Option 1
- Underground - Option 1
- Overhead - Option 2
- Underground - Option 2

Land Use

- Laydown, Storage, Parking & Office
- Optional Cable Landing
- Proposed Rail and Unloading Crane Pad
- Proposed Switching Station

Existing Features

- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Property Line

Ploughed Areas

- Ploughed for Pedestrian Survey
- Not Surveyed
- Test Pit Survey

- ### Notes
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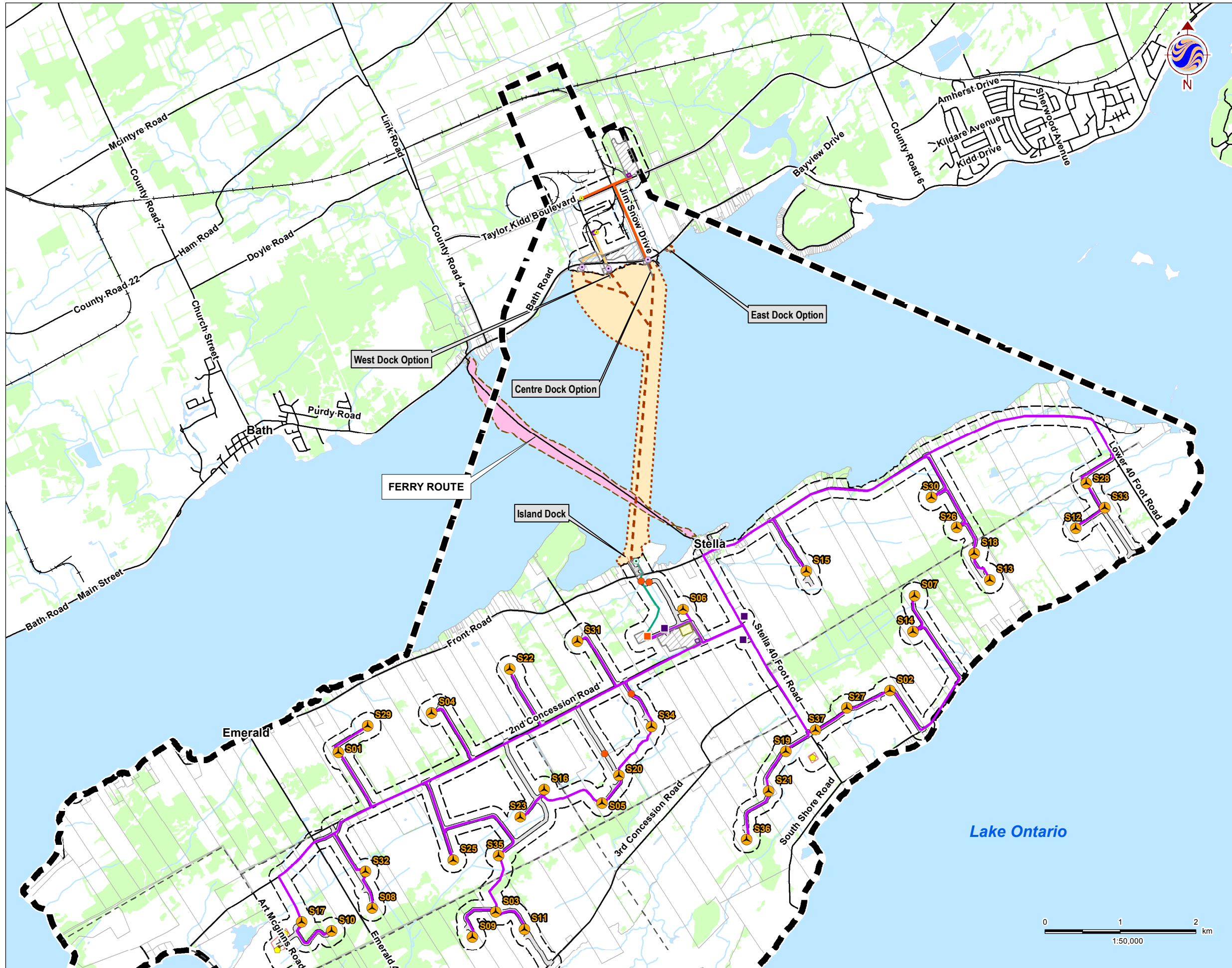
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Figure No.
 8

Title
Location of Stage 2 AA Testing (Mainland Portion)

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Appendix A9:
Underwater Archaeological Assessment



Legend

- Project Study Area
- 120m Zone of Investigation
- Area of MTO Bubbler Path Survey
- Underwater Archaeological Survey Area
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Waterbody
- Wooded Area
- Property Boundary

Notes

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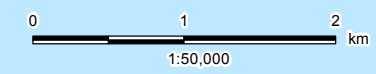
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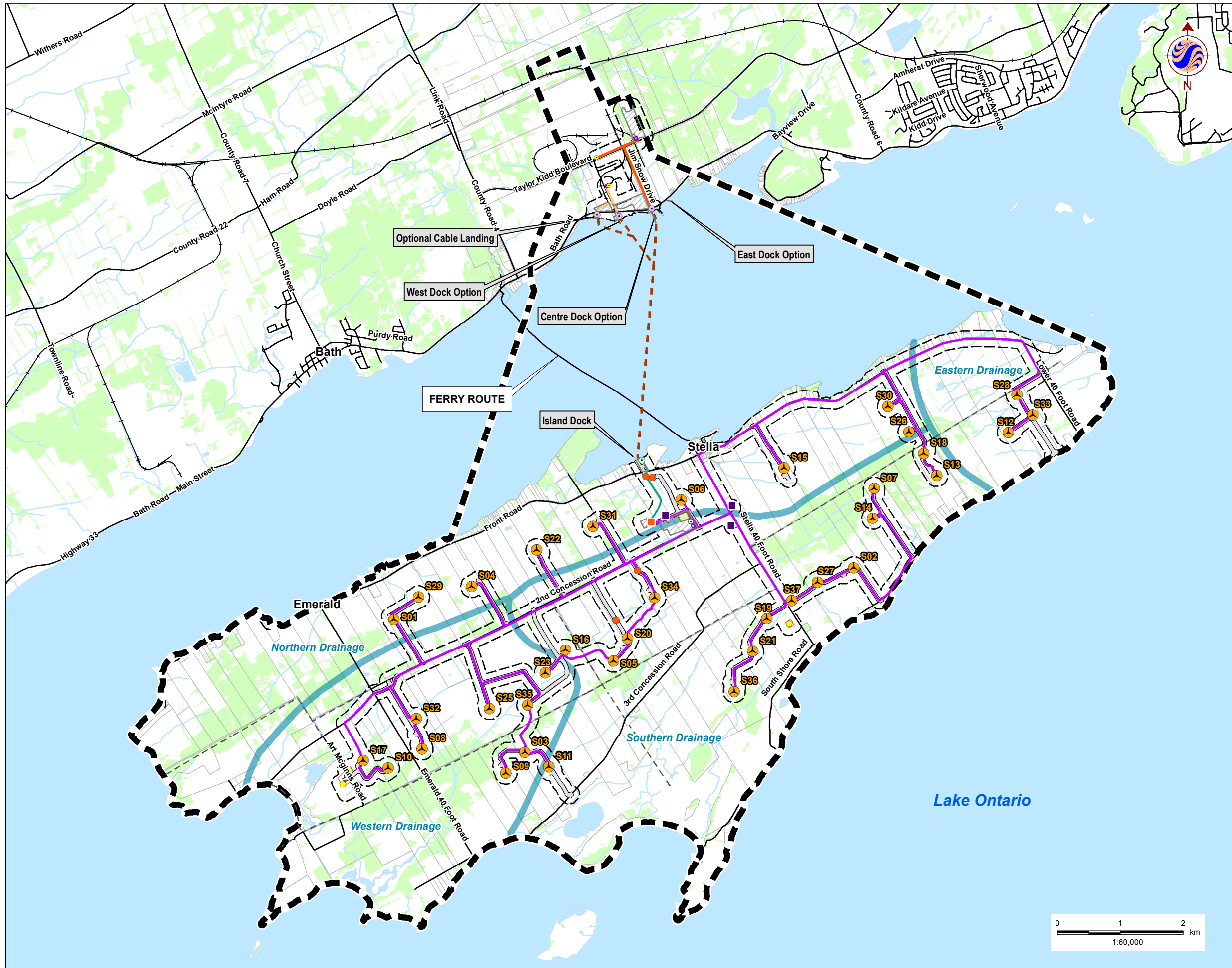
Figure No.
1

Title
Project Area Location



Appendix A10:

Water Assessment And Water Body Report



Legend

- Project Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Substation (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Storage Shed
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse
- Waterbody
- Wooded Area
- Property Boundary
- Drainage Area

Notes

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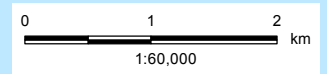
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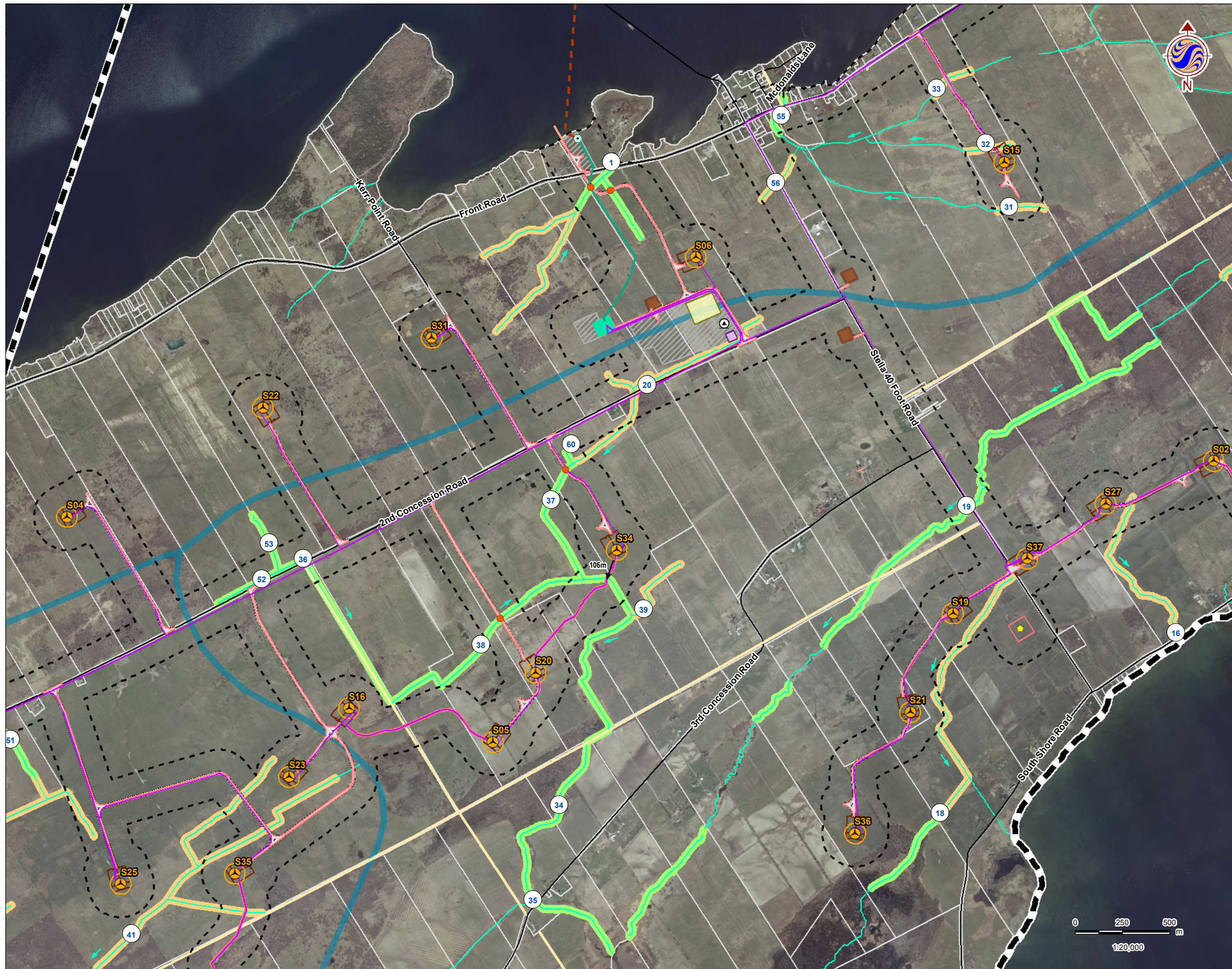
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Figure No.
1

Title
Location of Study Area and Subwatersheds





Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse (modified by Stantec)
- Direction of Flow
- Property Line
- REA Water Body
- Not a REA Water Body
- Water Assessment Station Number
- Drainage Area

Notes

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Figure No.
2 (2 of 4)

Title
**Water Body Locations and
Water Assessment Survey Stations**



Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Submarine Cable Path
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse (modified by Stantec)
- Direction of Flow
- Property Line
- REA Water Body
- Not a REA Water Body
- Water Assessment Station Number
- Drainage Area

Notes

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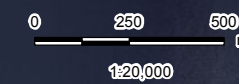
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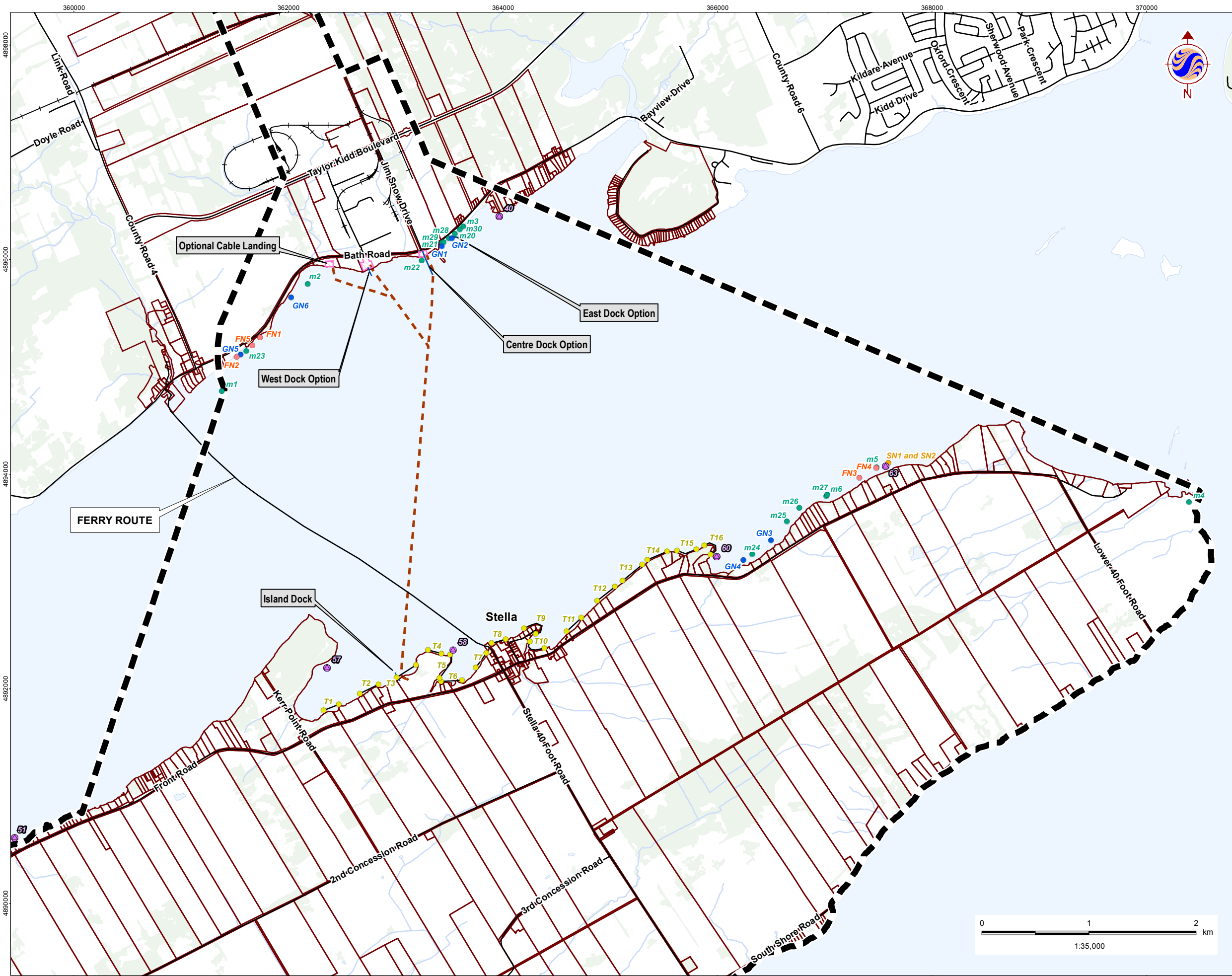
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Figure No.
2 (4 of 4)

Title
**Water Body Locations and
Water Assessment Survey Stations**





Legend

- Project Study Area
- Project Components**
 - Submarine Cable Path
 - Dock Footprint
 - Optional Cable Landing
- Existing Features**
 - Road
 - Railway
 - Watercourse
 - Property Boundaries
 - Waterbody
 - Wooded Area
- Fish Survey Methods**
 - FN1 Fyke Nets
 - GN1 Gill Nets
 - m1 Minnow Traps
 - SN1 Seine Net
 - T1 Electrofishing Transect
 - 60 LOMU Fish Sampling Stations - 2009

- ### Notes
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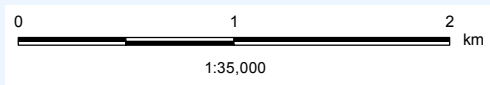
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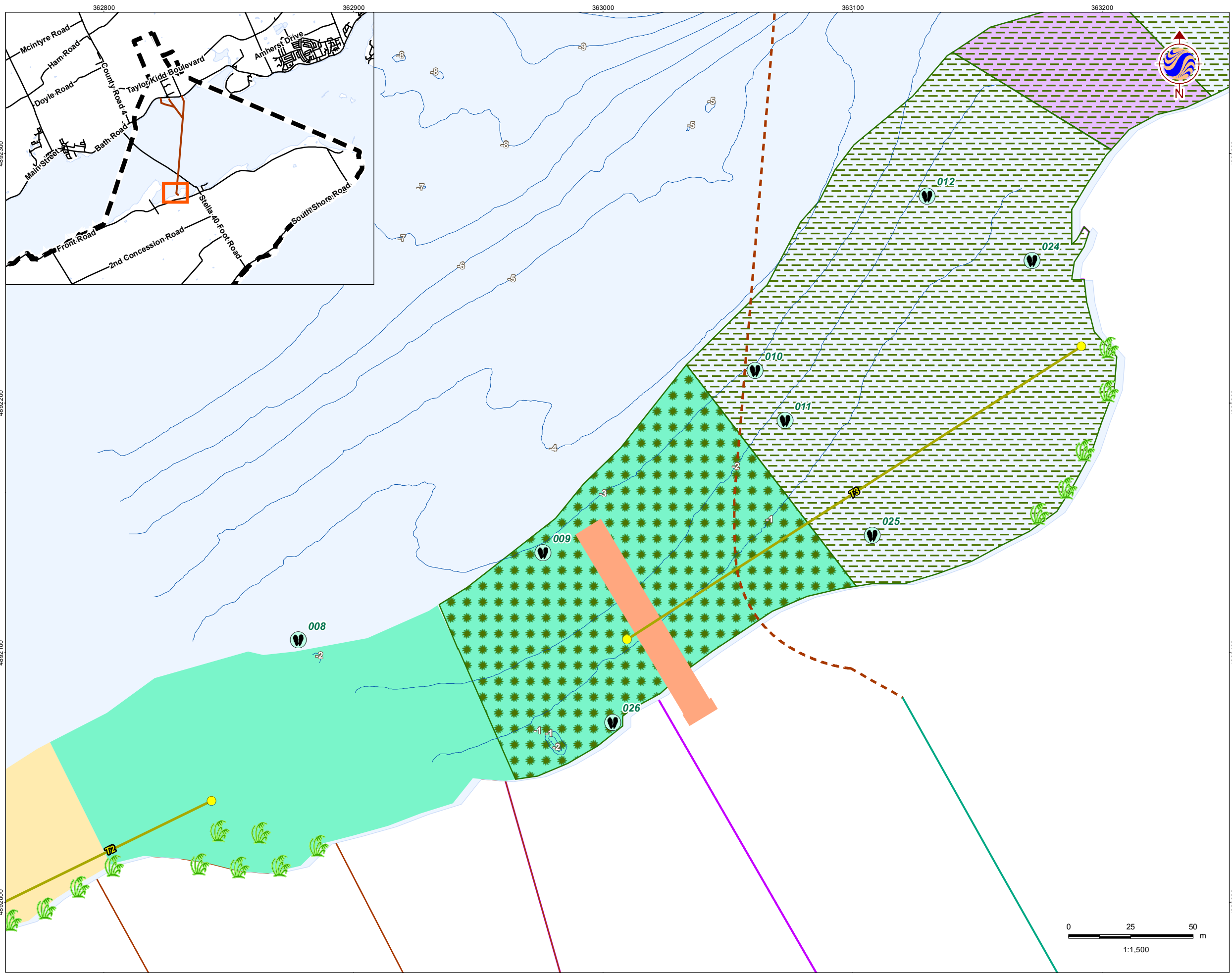
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Figure No.
3

Title
Fish Collection Stations in Lake Ontario





- ### Legend
- Study Area
 - Transformer
 - Collector Line
 - Unopened Road Allowance
 - Bathymetry Contour (metres ASL)
 - Road
 - Watercourse
 - Waterbody
 - Optional Property
 - Property Boundary
 - Mainland Dock (Potential Location)
 - Island Dock
 - Optional Cable Landing
 - Submarine Cable Path
 - Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
 - Substrate**
 - Bedrock
 - Cobble (patchy)
 - Cobble/Sand
 - Cobble/Sand/Gravel
 - Sand
 - Sand/Gravel
 - Sand/Silt/Cobble
 - Sand/Milfoil
 - Vegetation**
 - Milfoil
 - Overhanging Terrestrial Vegetation
 - Scattered, Sparse Submergent Vegetation
 - Weedbed
 - Weedbed/Scattered Vegetation
 - Emergent Vegetation
 - Other**
 - Logs, in Water Cover
 - Rocks
 - Bass Bed/Nest
 - Fish Survey Locations**
 - Fyke Nets
 - Gill Nets
 - Minnow Traps
 - Seine Net
 - Electrofishing Transect
 - LOMU Fish Sampling Stations - 2009
 - Mussel Survey - Sept 2011

Notes

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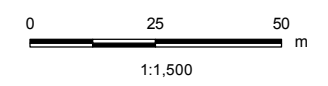


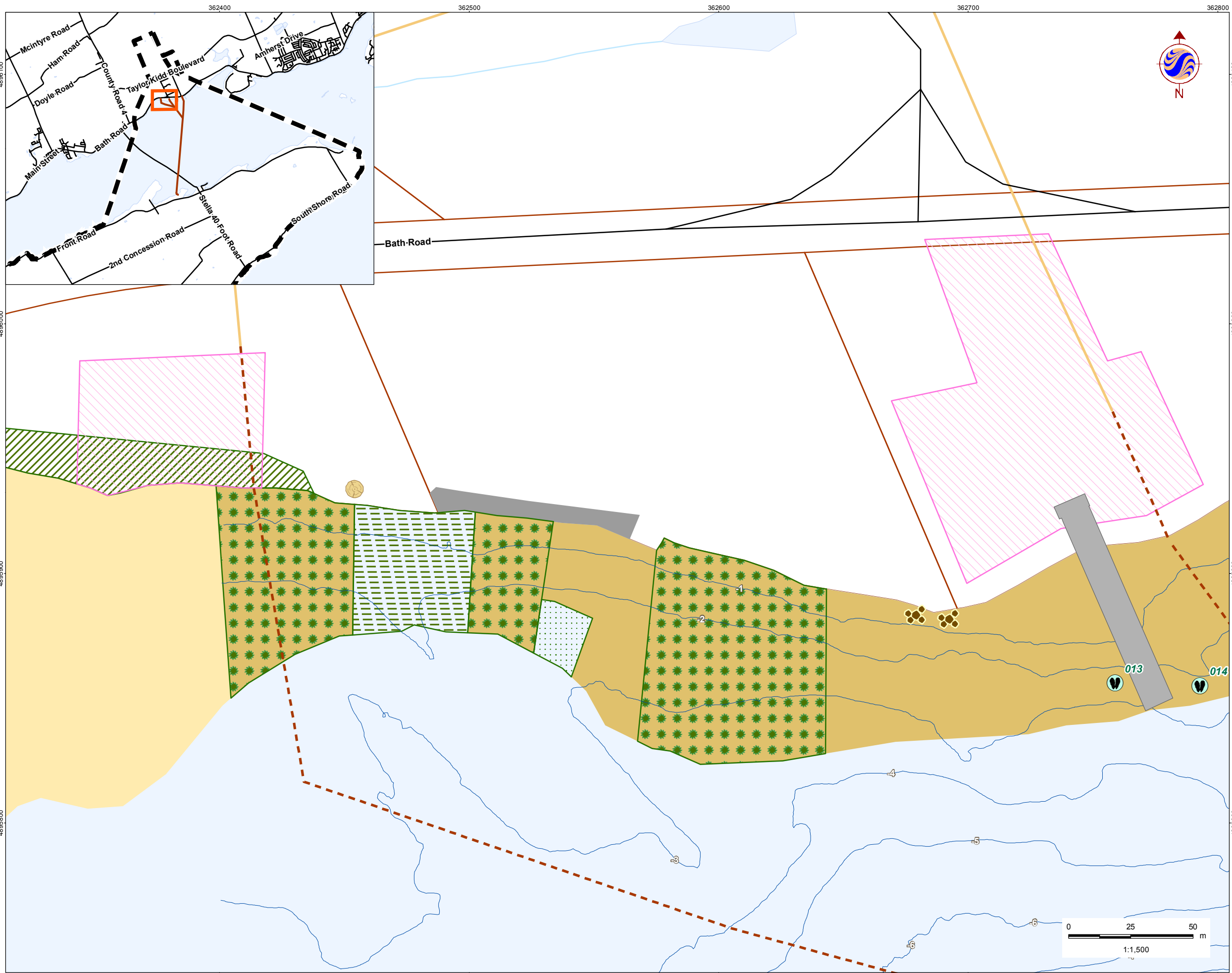
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AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
4 (1 of 4)

Title
Substrate and Bathymetry at Dock and Cable Landing Sites
Island Dock





- ### Legend
- Study Area
 - Transformer
 - Collector Line
 - Unopened Road Allowance
 - Bathymetry Contour (metres ASL)
 - Road
 - Watercourse
 - Waterbody
 - Optioned Property
 - Property Boundary
 - Mainland Dock (Potential Location)
 - Island Dock
 - Optional Cable Landing
 - Submarine Cable Path
 - Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
 - Substrate**
 - Bedrock
 - Cobble (patchy)
 - Cobble/Sand
 - Cobble/Sand/Gravel
 - Sand
 - Sand/Gravel
 - Sand/Silt/Cobble
 - Sand/Milfoil
 - Vegetation**
 - Milfoil
 - Overhanging Terrestrial Vegetation
 - Scattered, Sparse Submergent Vegetation
 - Weedbed
 - Weedbed/Scattered Vegetation
 - Emergent Vegetation
 - Other**
 - Logs, in Water Cover
 - Rocks
 - Bass Bed/Nest
 - Fish Survey Locations**
 - Fyke Nets
 - Gill Nets
 - Minnow Traps
 - Seine Net
 - Electrofishing Transect
 - LOMU Fish Sampling Stations - 2009
 - Mussel Survey - Sept 2011

Notes

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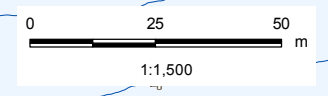
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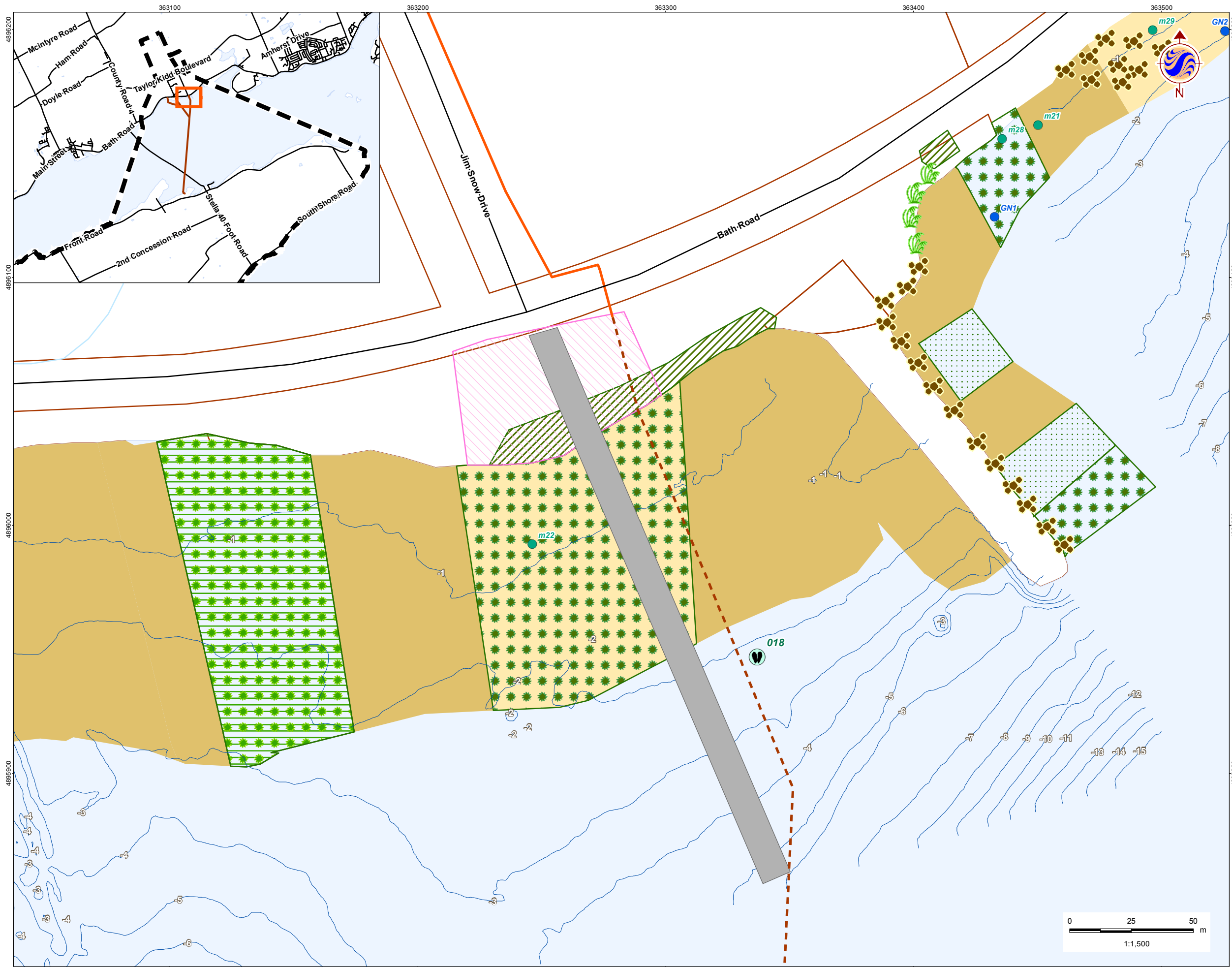
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Figure No.
4 (2 of 4)

Title
Substrate and Bathymetry at Dock and Cable Landing Sites
Mainland Dock – West Option and Optional Cable Landing Area





- ### Legend
- Study Area
 - Transformer
 - Collector Line
 - Unopened Road Allowance
 - Bathymetry Contour (metres ASL)
 - Road
 - Watercourse
 - Waterbody
 - Optional Property
 - Property Boundary
 - Mainland Dock (Potential Location)
 - Island Dock
 - Optional Cable Landing
 - Submarine Cable Path
 - Transmission Lines**
 - Mainland Option 1
 - Mainland Option 2
 - Island Transmission Line
 - Substrate**
 - Bedrock
 - Cobble (patchy)
 - Cobble/Sand
 - Cobble/Sand/Gravel
 - Sand
 - Sand/Gravel
 - Sand/Silt/Cobble
 - Sand/Milfoil
 - Vegetation**
 - Milfoil
 - Overhanging Terrestrial Vegetation
 - Scattered, Sparse Submergent Vegetation
 - Weedbed
 - Weedbed/Scattered Vegetation
 - Emergent Vegetation
 - Other**
 - Logs, in Water Cover
 - Rocks
 - Bass Bed/Nest
 - Fish Survey Locations**
 - Fyke Nets
 - Gill Nets
 - Minnow Traps
 - Seine Net
 - Electrofishing Transect
 - LOMU Fish Sampling Stations - 2009
 - Mussel Survey - Sept 2011

Notes

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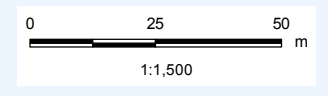
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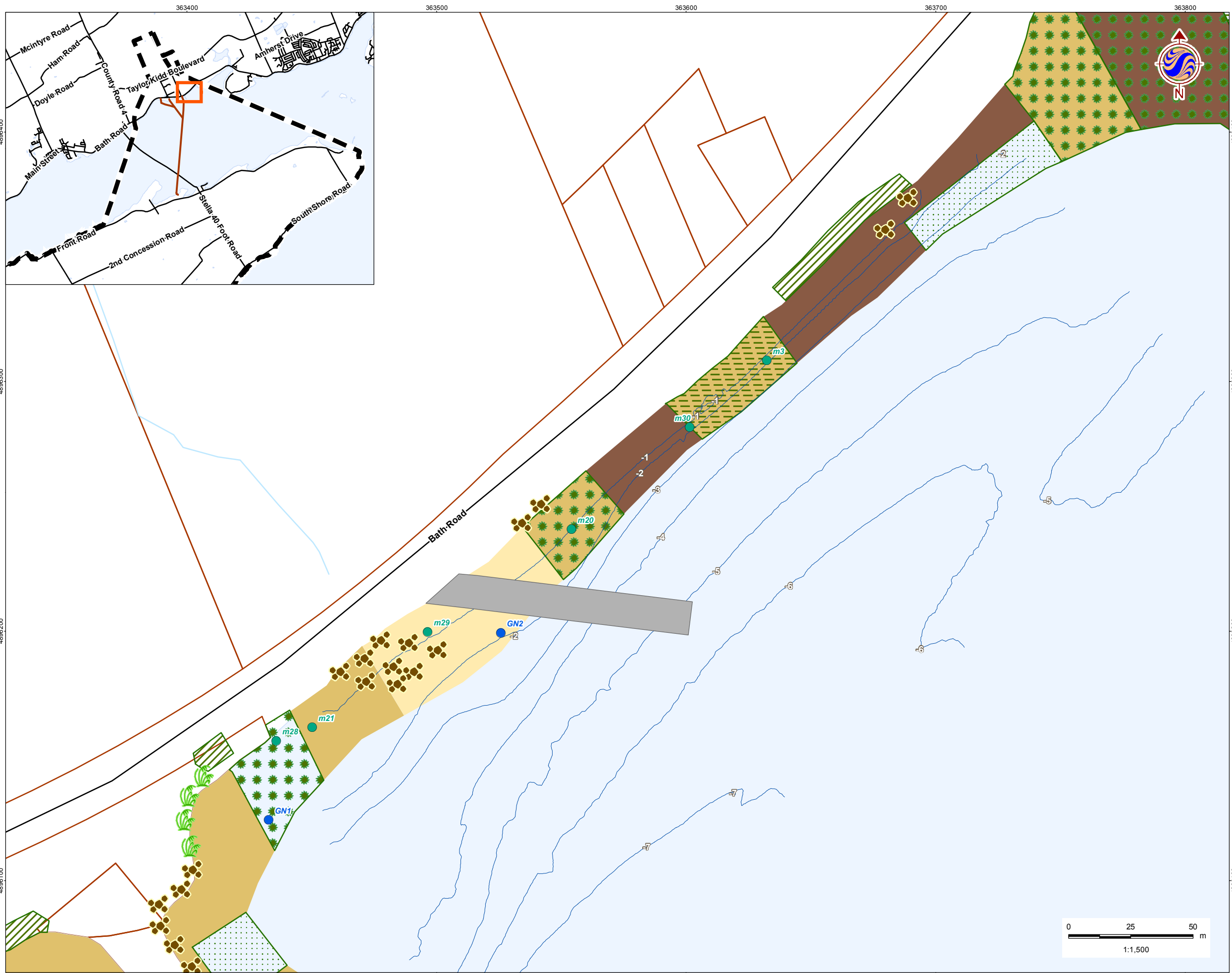
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Figure No.
4 (3 of 4)

Title
Substrate and Bathymetry at Dock and Cable Landing Sites
Mainland Dock – Centre Option





Legend

- Study Area
- Transformer
- Collector Line
- Unopened Road Allowance
- Bathymetry Contour (metres ASL)
- Road
- Watercourse
- Waterbody
- Optioned Property
- Property Boundary
- Mainland Dock (Potential Location)
- Island Dock
- Optional Cable Landing
- Submarine Cable Path

Transmission Lines

- Mainland Option 1
- Mainland Option 2
- Island Transmission Line

Substrate

- Bedrock
- Cobble (patchy)
- Cobble/Sand
- Cobble/Sand/Gravel
- Sand
- Sand/Gravel
- Sand/Silt/Cobble
- Sand/Milfoil

Vegetation

- Milfoil
- Overhanging Terrestrial Vegetation
- Scattered, Sparse Submergent Vegetation
- Weedbed
- Weedbed/Scattered Vegetation
- Emergent Vegetation

Other

- Logs, in Water Cover
- Rocks
- Bass Bed/Nest

Fish Survey Locations

- Fyke Nets
- Gill Nets
- Minnow Traps
- Seine Net
- Electrofishing Transect
- LOMU Fish Sampling Stations – 2009
- Mussel Survey - Sept 2011

Notes

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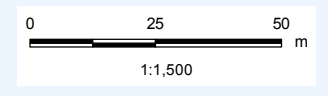
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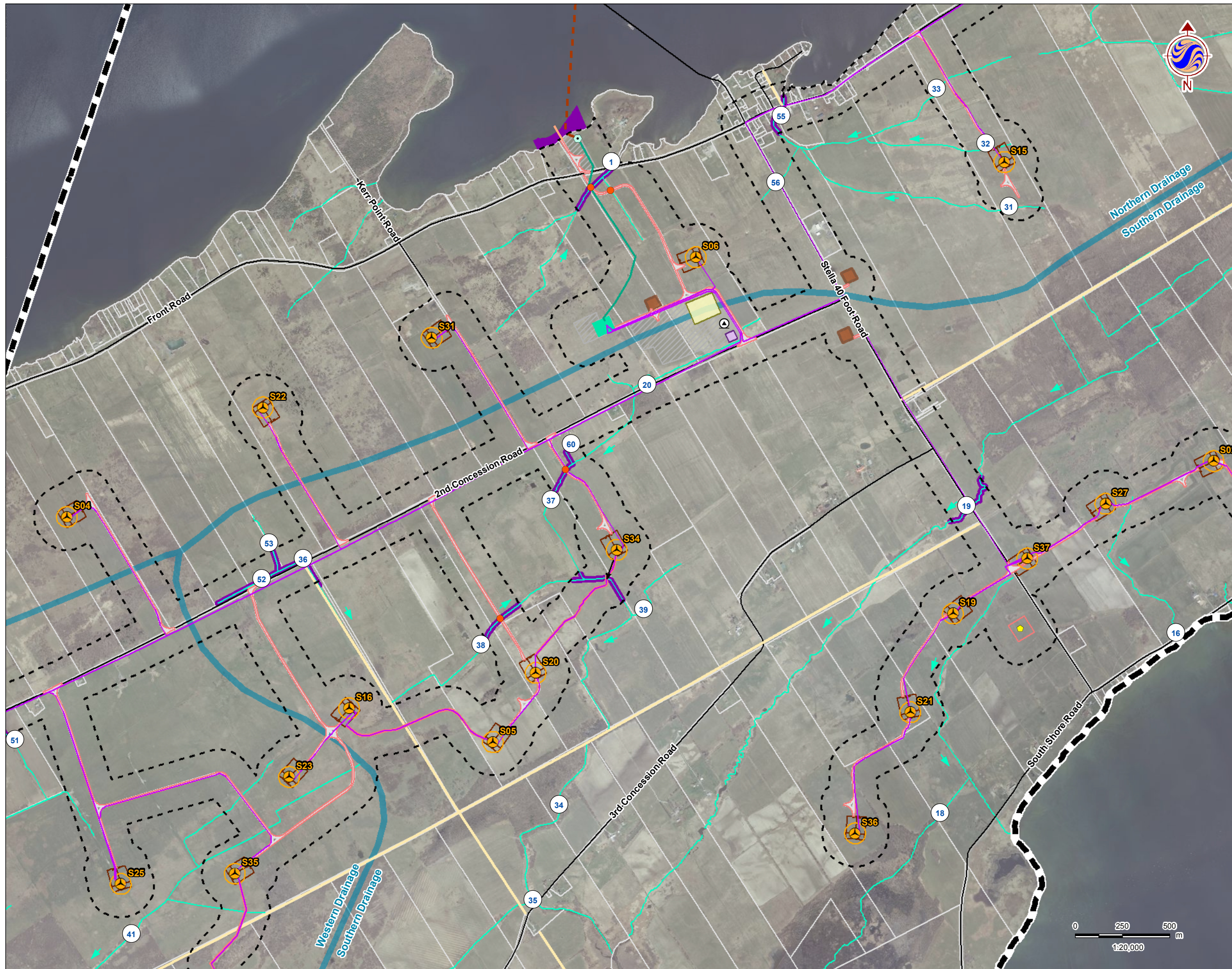
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Figure No.
4 (4 of 4)

Title
Substrate and Bathymetry at Dock and Cable Landing Sites
Mainland Dock – East Option





Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse (modified by Stantec)
- Direction of Flow
- Property Line
- Drainage Area
- Fish Habitat
- Water Assessment Station Number

Notes

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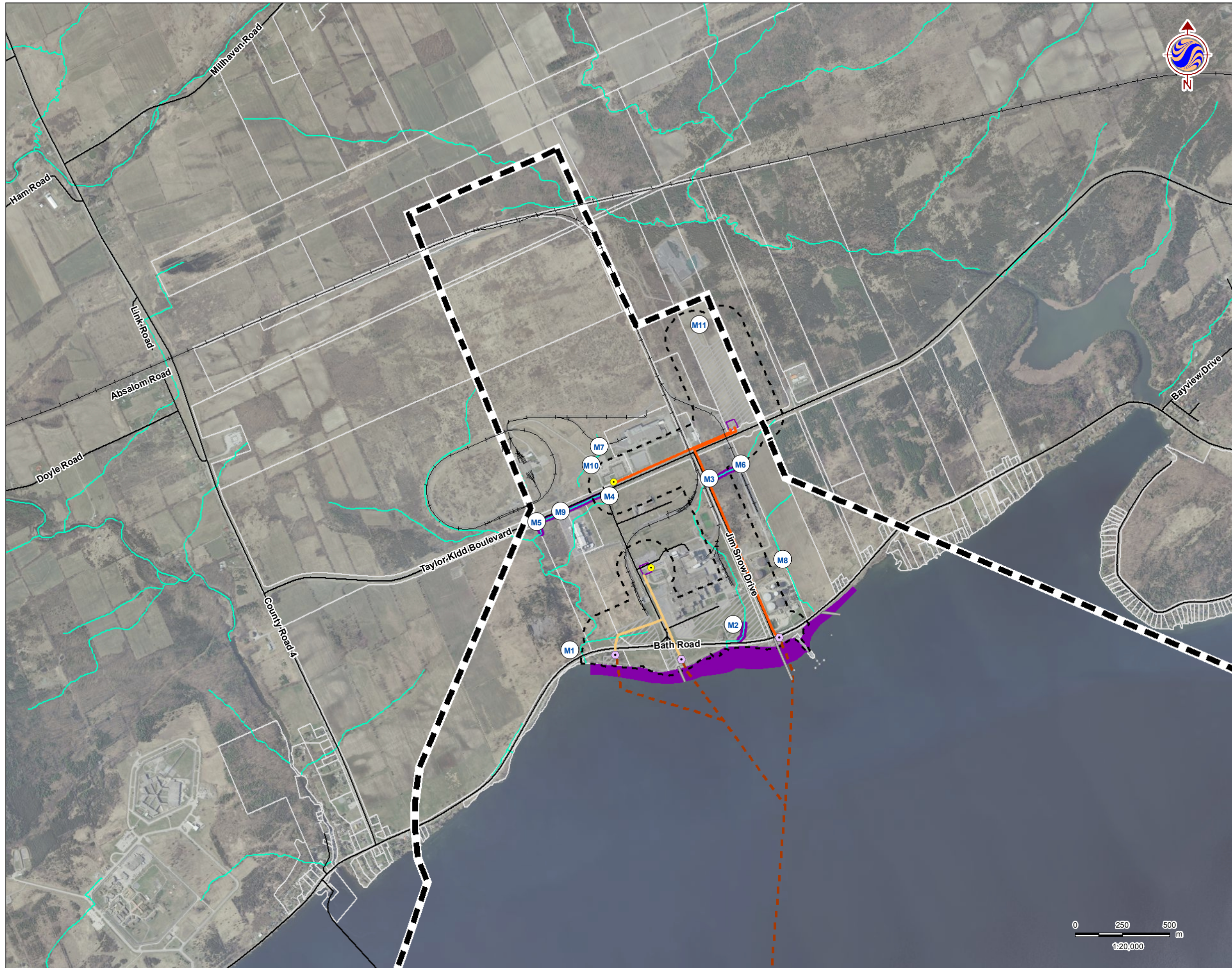
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Figure No.
5 (2 of 4)

Title
Fish Habitat in the Zone of Investigation



Legend

- Study Area
- 120m Zone of Investigation
- Project Components**
- Turbine
- Met Tower (Potential Location)
- Access Road
- Collector Lines
- Laydown Area and Crane Path
- Submarine Cable Path
- Operation and Maintenance Building (Potential Location)
- Storage Shed
- Turbine Blade Tips
- Substation (Potential Location)
- Potential Culvert Location
- Point of Common Coupling
- Mainland Cable Vault (Potential Location)
- Island Cable Vault
- Aboveground Storage Tanks (Potential Location)
- Constructible Area
- Mainland Dock (Potential Location)
- Island Dock
- Batch Plant (Potential Location)
- Site Office (Potential Location)
- Transmission Lines**
- Mainland Option 1
- Mainland Option 2
- Island Transmission Line
- Land Use**
- Central Staging Area
- Switching Station (Potential Location)
- Existing Features**
- Road
- Unopened Road Allowance
- Railway
- Watercourse (modified by Stantec)
- Direction of Flow
- Property Line
- Drainage Area
- Fish Habitat
- ① Water Assessment Station Number

Notes

1. Coordinate System: UTM NAD 83 - Zone 18 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2013. Project layout S19 - revision 3.
3. Imagery Source: First Base Solutions ©, 2013. Imagery Date: 2008



Stantec

April 2014
160960595

Client/Project

WINDLECTRIC INC.
AMHERST ISLAND WIND ENERGY PROJECT

Figure No.

5 (4 of 4)

Title

Fish Habitat in the Zone of Investigation

Appendix B:

Letter to Ministry of the Environment

Algonquin Power Co.

2845 Bristol Circle
Oakville, Ontario,
Canada L6H 7H7

Tel: 905.465.4500

Fax: 905.465.4514

June 5, 2014

Ms. Agatha Garcia-Wright
Director
Ministry of Environment
Environmental Approvals Access and Service Integration Branch
Ministry of Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

Attention: Ms. Agatha Garcia-Wright, Director, Environmental Approvals Access & Service

Reference: Amherst Island Wind Energy Project (“Project”)
MOE reference # 1271-96VNH3

Dear Ms. Garcia-Wright;

Further to the discussion held with Ms. Sue Edwards with respect to the Amherst Island Wind Energy Project (“Project”), Algonquin Power Co. (on behalf of Windlectric Inc. – a subsidiary of Algonquin Power Co. (“Algonquin”)) below is a list of minor Project layout changes, constituting Administrative and Technical Changes as defined in Chapter 10 of the Renewable Energy Approval (REA) technical guide.

A. Administrative Change – Mapping Updates – Island Underground Cable Vault

- The mainland and island underground cable vaults would be located on private land. These properties abut the North Channel between Amherst Island and the mainland.
- As identified in the REA technical documentation figures/ mapping, the underground cable vaults will be located near the shoreline. The Design and Operations Report describes the location of the cable vaults to be approximately 50 m from the shoreline.
 - As detailed in the REA application technical documentation there would be no negative impacts for the placement of underground the cable vault at these proposed locations.
- The REA Project technical documentation contains figures/ mapping that illustrate that the cable vaults are closer to the shoreline than would be constructed (as described in the Design and Operation Report). The figures/ mapping would be amended to make this administrative change.

B. Technical Change:

Island transmission line pole placement:

- The Project team is constantly reviewing certain design features of the layout in order to assess efficiencies and to further reduce any likelihood of potential environmental impacts.
- The REA application technical documentation mapping illustrates the route of the overhead transmission line from the island substation to the Island underground cable vault.
- In examining the placement for the transmission line poles there is an opportunity to:
 - Reduce the angle at which the overhead transmission line crosses Front Road, and
 - Reduce the number of poles, near the substation, by crossing a knoll, on the private landowner's property, by spanning the transmission line over the hill. No poles would be placed on the hill and no entry of personnel onto the hill would be required to install the line between the poles.
 - Both of these options will still allow the installation of the transmission line poles to remain in the corridor that was originally allocated. This pole placement would not cause any additional environmental impact.

Submarine cable route mapping:

- In designing the submarine cable route a comprehensive mapping exercise was undertaken in order to minimize the distance between the proposed shoreline island landing option and shoreline mainland landing options.
 - Mainland – An important item of interest that needed to be considered for routing the three options is the avoidance of a Crown Land easement (water utility easement). The REA application technical mapping illustrated the “branching” of the submarine cable, toward the mainland, in order to avoid the Crown Lease easement.
- The Project team has been completing further refinement of the submarine cable route, and has recommended the middle submarine cable landing area be routed (east of the west dock option) in order to provide greater assurance of avoiding the Crown Lease easement.
 - The middle submarine cable route is still within the underwater marine archeological survey area that is identified in the REA technical report Underwater Archeological Assessment Report.
 - There would be no impacts to underwater archeological or environmental items of interest.

Island and mainland dock layout minor amendment:

- Through further detailed design of the island and mainland docks, it has been determined that option 2A is the preferred design methodology as it allows for installation with the least interference with the lakebed during construction. The docks will be constructed from the land out and will limit the use of jack-up barges needed for construction. The construction contractor has also determined that the entire length of the docks should be constructed in this way rather than using a jack-up barge at the offshore end. For the island dock the total length of 50m \pm 50% (30m of dock and 20m of jack-up barge) will be maintained with 50m \pm 50% of dock and no jack-up barge. In the case of the mainland dock, the lengths provided in the Dock Size column of Table 3.2 in the Project Description Report will be maintained, and the jack-up barge will simply be excluded.
- The marine safety and logistics component of the project is unique among wind energy projects in Ontario and is expected to extend the construction period compared to other similarly sized wind

projects. Therefore ongoing engineering and planning work for the docks has resulted in analyzing the dock configuration for safety and logistics. One conclusion, recently assessed by the construction engineering team, is the concept of widening the first segments of the docks (from the land side out into the water) from 7m \pm 50% to 10m \pm 50% will provide an optimum solution by allowing significantly faster and safer loading and unloading of the barges which will in turn minimize the time that marine logistics will add to the overall construction schedule.

- In addition, the marine subject matter experts have also recently identified, considering options to improve safety and schedule, a preference to have access for two barges to be docked at the same time. If, for instance a barge is docked and loading/unloading cannot take place due to some mechanical issue with a piece of equipment, the second barge will also be able to dock rather than staying idle within the channel which will reduce the impact to marine traffic. It will also allow for workers to be transported off the island in a similar breakdown situation which could be a safety issue.
- To achieve the two barge docking design, the dock designs would need to be wider near the end, widening from 10m to approximately 15m over the last 10m of dock length.
- This minor design amendment in width will not impact the number of piles needed for the docks or change the footprint of each dock structure with the lakebed.
- The additional area needed for the wider dock designs is entirely within the area that has been assessed in the Underwater Archaeological Assessment and Water Assessment and Water Body Reports. There would be no impacts to underwater archeological or environmental items of interests.

C. Please see Tab #1 for rough conceptual drawings of the proposed amendments.

D. Please see Tab #2 for a matrix listing the proposed change requirements in relation to the impacts to the REA process.

E. Potential Negative Environmental Effects, Mitigation and Monitoring Requirements

The following table confirms in each case there will be no negative environmental effects of the Project changes on environmental components and no new mitigation and/or monitoring measures would be required.

Environmental Component	Potential Negative Environmental Effects	Mitigation Measures	Monitoring Requirements
Natural Environment Components			
Air Quality	No additional negative effect	No additional mitigation required.	No new monitoring required.
Soil Quality	No additional negative effect	No additional mitigation required.	No new monitoring required.
Soil Quantity	No additional negative effect	No additional mitigation required.	No new monitoring required.
Groundwater	No additional negative effect	No additional mitigation required.	No new monitoring required.
Surface Water	No additional negative effect.	No additional	No new monitoring

Environmental Component	Potential Negative Environmental Effects	Mitigation Measures	Monitoring Requirements
Quantity		mitigation required.	required.
Surface Water Quality	No additional negative effect.	No additional mitigation required.	No new monitoring required.
Aquatic Habitat and Biota	No additional negative effect.	No additional mitigation required.	No new monitoring required.
Woodlands	No additional negative effect.	No additional mitigation required.	No new monitoring required.
Wetlands	No additional negative effect.	No additional mitigation required.	No new monitoring required.
Wildlife Habitat	No additional negative effect.	No additional mitigation required.	No new monitoring required.
Wildlife	No additional negative effect.	No additional mitigation required.	No new monitoring required.
Socio-Economic Environmental Components			
Noise	No additional negative effect.	No additional mitigation required.	No new monitoring required.
Public and Facility Safety	Increase in ability to safely transport workers off the island in the case of an emergency.	No additional mitigation required.	No monitoring required.
Change in Visual Landscape	Fewer Poles (benefit)	No additional mitigation required.	No new monitoring required.
Property Values	No additional negative effect.	No additional mitigation required.	No monitoring required.
Availability of Resources	No additional negative effect.	No additional mitigation required.	No monitoring required.
Recreational Land Use	No additional negative effect.	No additional mitigation required.	No monitoring required.
Infrastructure	No additional negative effect.	No additional mitigation required.	No monitoring required.
Traffic	Reduction in potential impacts to marine traffic.	No additional mitigation required.	No monitoring required.
Archaeological and Heritage Resources	No additional negative effect.	No additional mitigation required.	No monitoring required.

- Summary of Revisions to REA Supporting Documents - Maps to be updated:

Report	Figure No.
Construction Plan Report	1, 1.1, 1.2, 2, 2.1, 2.2, 3, 3.1, 3.2, 4, 4.1, 4.2
Underwater Archaeological Report	1
Natural Heritage Assessment Report/ Environmental Impact Study	1A, 1B, 2.0, 2.1, 2.2, 3.0, 3.1, 3.2, 4.0, 4.1, 4.2, 5.0, 5.1, 5.2, 6.0, 6.1, 6.2
Heritage Report	3, 5,6,8,10,12
Project Description Report	1, 1.1, 1.2, 2, 2.1, 2.2, 3, 3.1, 3.2, 4, 4.1, 4.2, , 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
Protected Properties Report	3,5,6,8, 10,11
Stage 1 Archaeological Report	2, 5, 7, 9, 10
Stage 2 Archaeological Report	2, 8
Waterbody Assessment Report	1, 2 (2 and 4 of 4), 3, 4 (1,2,3 and 4 of 4), 5 (2 and 4 of 4)
Design and Operation Report	1, 1.1, 1.2, 2, 2.1, 2.2, 3, 3.1, 3.2, 4, 4.1, 4.2

- Summary of Revisions to REA Supporting Documents –Project Description Report and the Design and Operation Report:

Report	Text
Project Description Report	<p>Section 3.4.6: (a) amend text to remove the use of a jack-up barge and the dock width would be approximately 10m \pm50%, and (b) end of the docks will be designed to allow two barges to dock</p> <p>Section 3.5.7: (a) Table 3.2 – update Dock size to 10m \pm50%, remove reference to jack-up barge, and (b) remove text reference to jack-up barge and dock width is approximately 10m \pm50%.</p>
Design and Operation Report	Section 3.11: (a) amend text to remove the use of a jack-up barge and the dock width would be approximately 10m \pm 50%, and (b) end of the docks will be designed to allow two barges to dock
Construction Plan Report	Section 2: (a) Table 2.1 – update dock type selected and remove reference to jack-up barge


Conclusion

The minor changes to the Project described above do not result in any negative environmental effects not already identified in the application material already filed. In addition, the public notification and consultation would be satisfied by updating the final REA technical documents and posting the updated mapping on the project web site, sometime over the next couple of weeks. It is our understanding that these minor changes will not affect the six month service commitment, which commenced on January 2, 2014.

If you have any questions or require any further information please do not hesitate to the undersigned at 905-465-4518 or Alex Tsopelas at 905-829-6388.

Regards,

Algonquin Power Co.
On behalf of Windlectric Inc.

A handwritten signature in black ink, appearing to be 'S. Fairfield', written over a horizontal line.

Sean Fairfield
Senior Manager – Project Planning

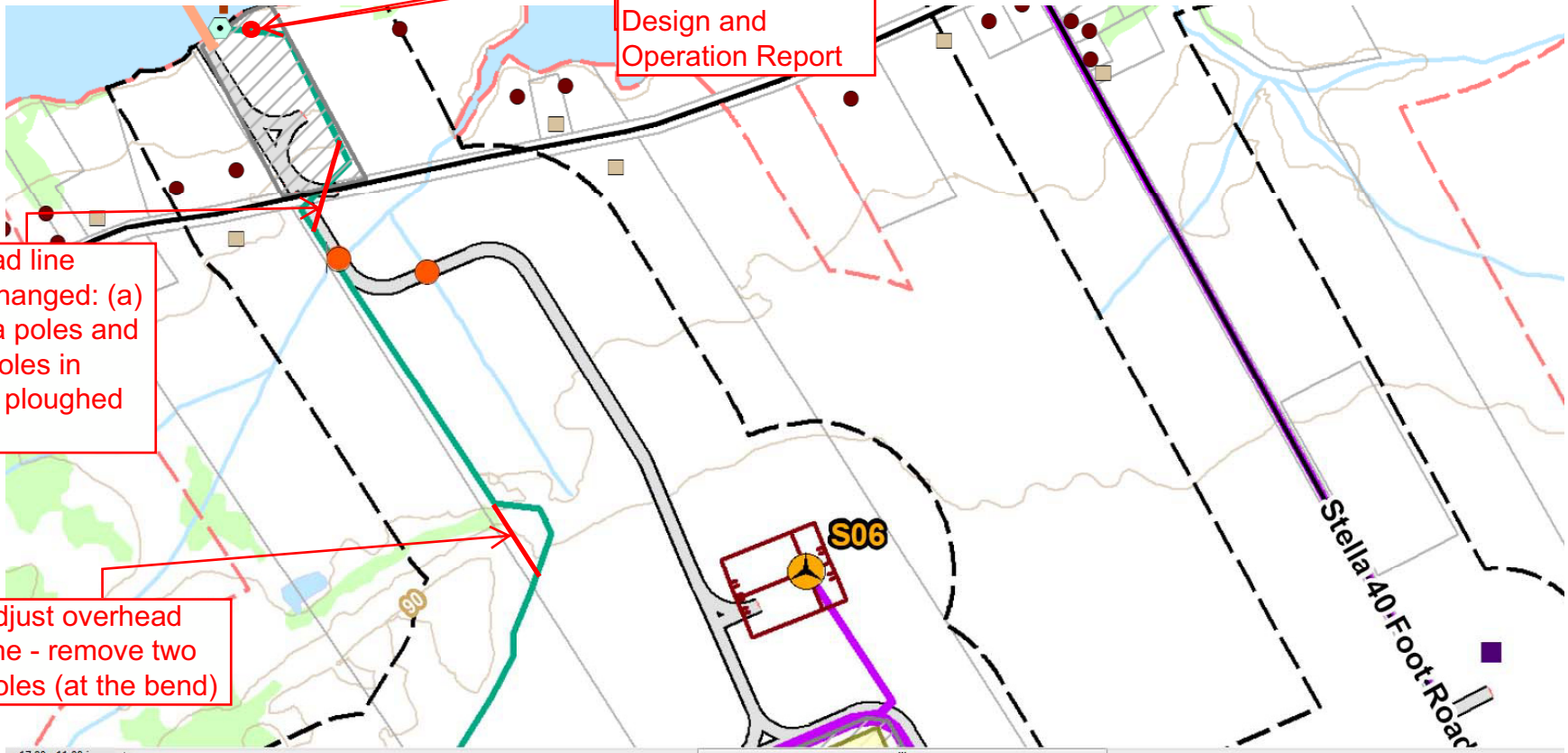
cc: Alex Tsopelas, Algonquin Power Co.
Kerrie Skillen, Stantec Consulting

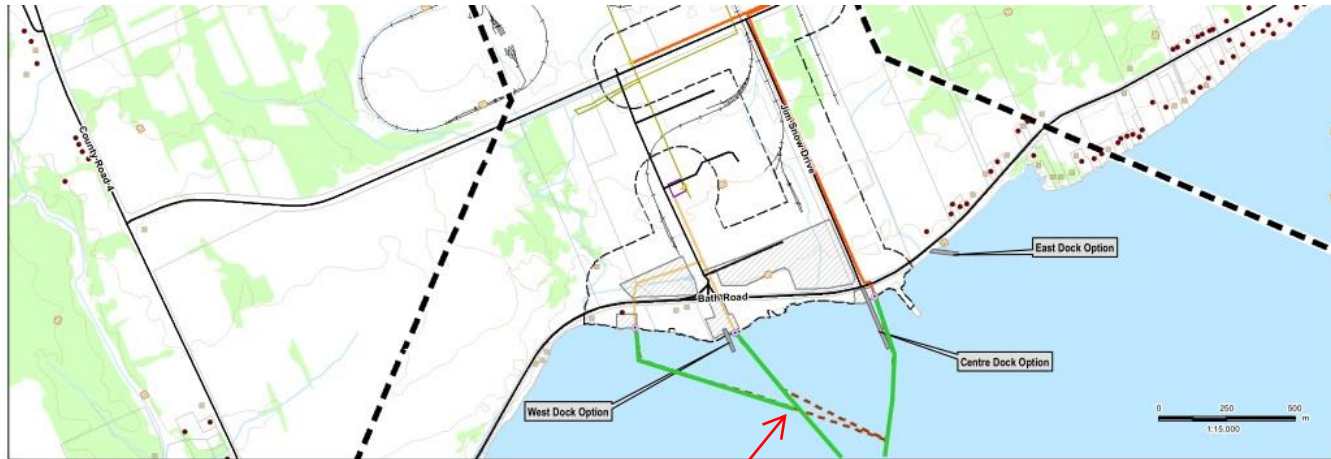
Tab #1

Cable Vault should be illustrated farther onto land as described in Design and Operation Report

overhead line angle changed: (a) no extra poles and (b) all poles in stage 2 ploughed area

adjust overhead line - remove two poles (at the bend)





- Elevation Contour (metres ASL)
- Hydro Line
- Watercourse
- Waterbody
- Wooded Area
- ANSI Boundary
- Property Boundary

Notes
 1. Coordinate System: UTM NAD 83 - Zone 18 (N)
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.



Client/Project
 WINDLECTRIC INC.
 AMHERST ISLAND WIND ENERGY PROJECT

Figure No.
 1.1 **DRAFT**

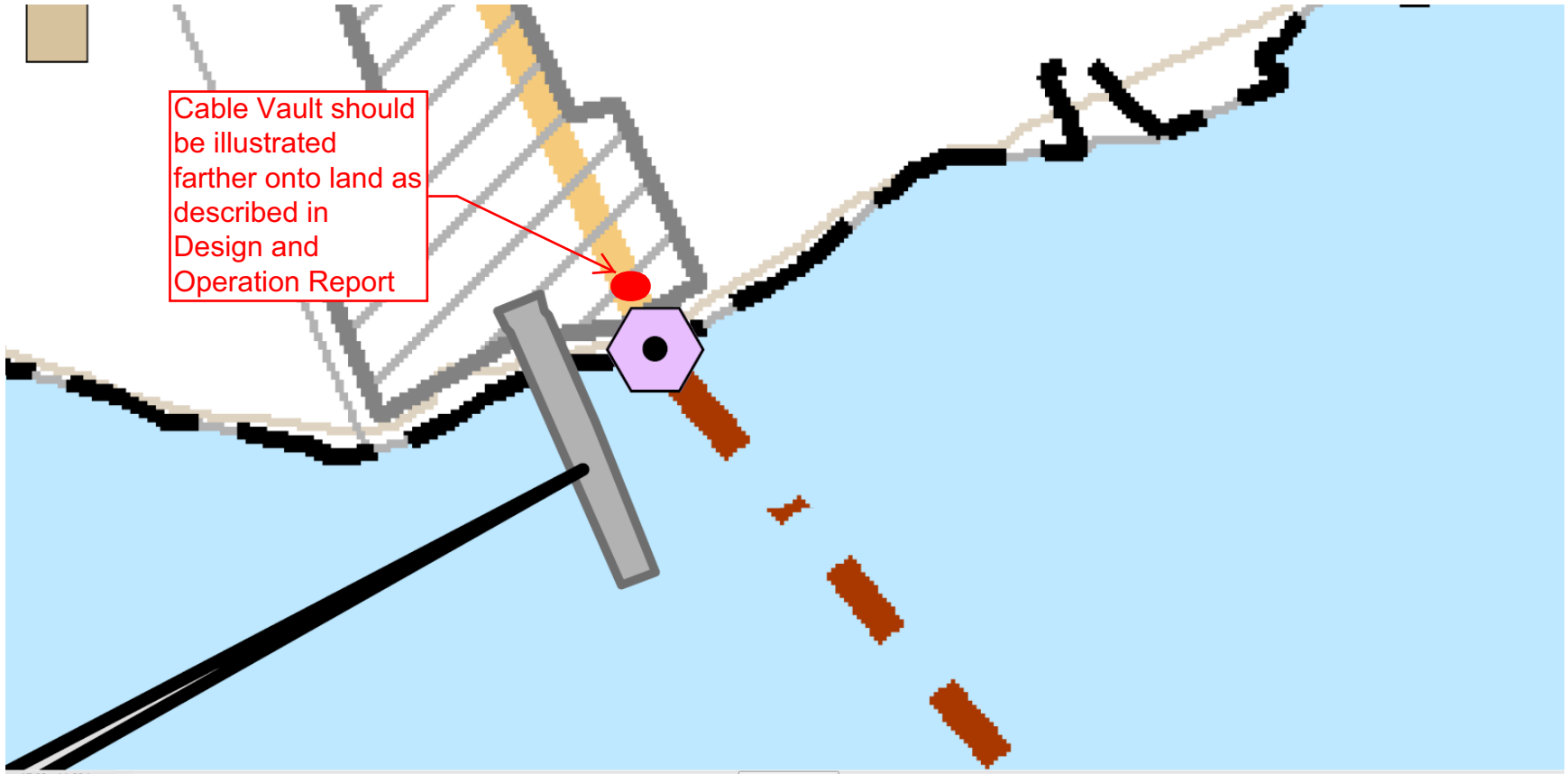
Title
Project Location & Study Area

W:\Users\89880506\Documents\MXD\APC\DWG\14090595_7\01_Propo\Location_2012\1218.mxd
 Revised: 2012-12-19 By: carlbertson

Proposed change to cable route to avoid Crown Lease easement

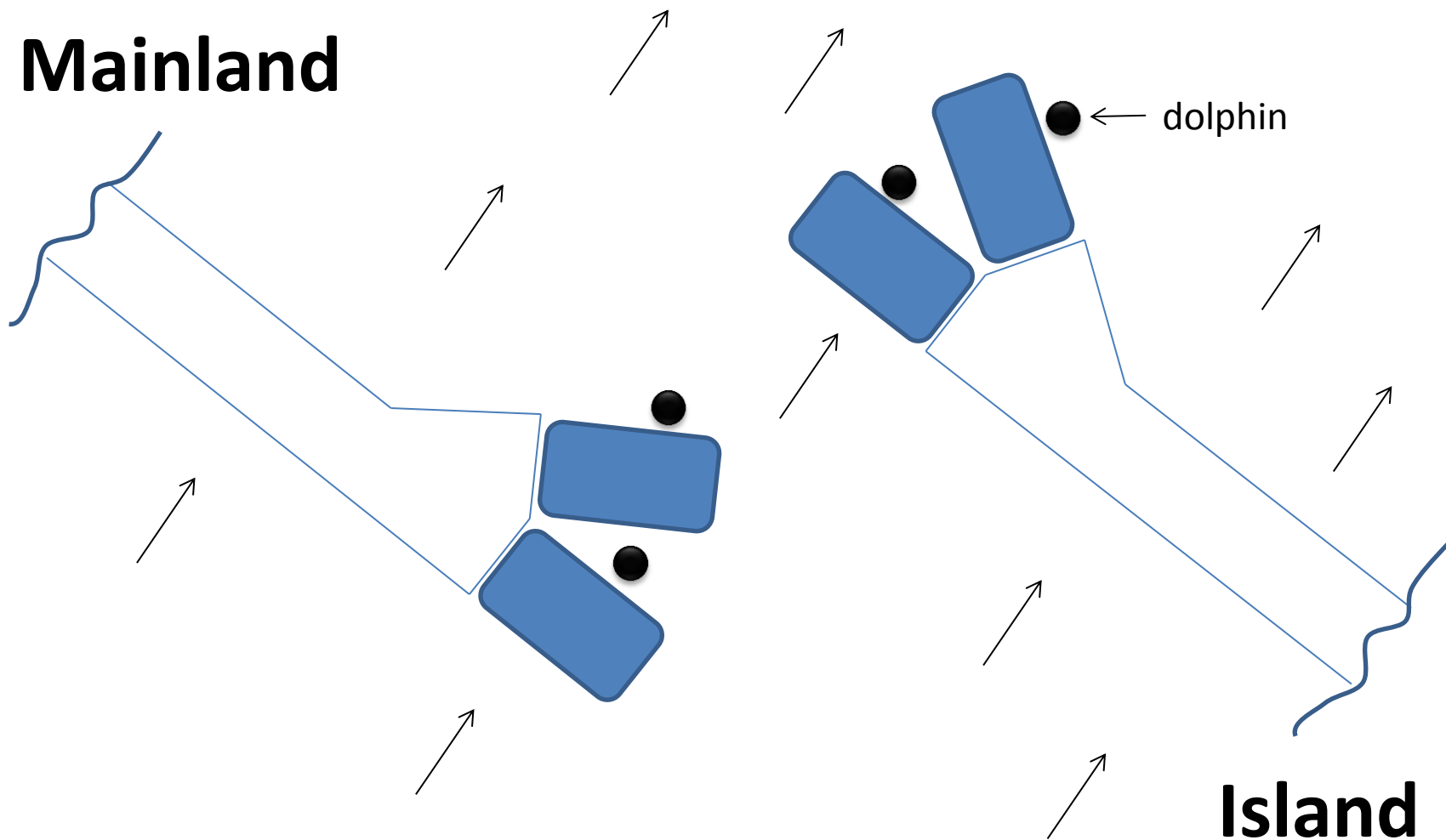


- Legend**
- Project Study Area
 - 300m Zone of Investigation
 - 120m Zone of Investigation
 - Project Components**
 - Turbine
 - Met Tower (Potential Location)
 - Substation (Potential Location)
 - Access Road



Amherst Island - 2-Barge Dock Concept Sketch

Mainland



← dolphin

Island

↑ N

↑ Prevailing Wind Direction (from SW)

Tab #2

Amherst Island wind energy project - Proposed Amendments in Relation to Impacts to the REA Process

	Administrative	Comment
Overall Impact	No bearing on the environmental effects	<p>Underground cable vaults:</p> <ul style="list-style-type: none"> • Design and Operation report describes the location of the vaults to be approximately 50 m from shoreline. The current REA mapping/figures illustrate the vaults to be on the shoreline. The maps need to be slightly adjusted. This is an administrative issue and no overall impact to the Project. • Land has been assessed already from an Natural Heritage Assessment & Cultural Heritage assessment (part of REA application) <p>Docks:</p> <ul style="list-style-type: none"> • Project Description Report describes the use of a jack-up barge for the island dock (this description is in the Design and Operation report for the island dock as well), and the width of the docks of 7 m $\pm 50\%$. The project engineering and planning team has worked with the general contractor to develop a revised dock design which would: (a) remove the use of the jack-up barge concept, widen docks to 10m $\pm 50\%$, and widen the end of the docks to accommodate two barges docking at the same time. This is a minor technical issue and no overall impact to the Project. • The additional area needed for the wider dock designs is entirely within the area that has been assessed in the Underwater Archaeological Assessment and Water Assessment and Water Body Reports. There would be no impacts to underwater archeological or environmental items of interests.
Project Location and Impact on Receptors	Not applicable	<p>Underground cable vault – Design and Operation report describes the location of the vaults to be approximately 50 m from shoreline. The current REA mapping illustrates the vaults to be on the shoreline. The maps need to be slightly adjusted. This is an administrative issue and no overall impact to the Project location or impact to receptors.</p> <p>Docks – see comment above regarding description of amendment. This is a minor technical issue and no overall impact to the Project.</p>
Cultural Heritage – archaeological		Underground cable vaults– no additional lands required. These parcels of land have already been assessed for the REA application, therefore, no changes to previous recommendations.

Amherst Island wind energy project - Proposed Amendments in Relation to Impacts to the REA Process

	Administrative	Comment
		Docks - The additional area needed for the wider dock designs is entirely within the area that has been assessed in the Underwater Archaeological Assessment and Water Assessment and Water Body Reports. There would be no impacts to underwater archeological or environmental items of interests and no changes to previous recommendations.
Cultural Heritage – Heritage		<p>Underground cable vaults - Not require because no additional land is required for either of these vaults. These parcels of land have already been assessed for the REA application, therefore, no changes to previous recommendations.</p> <p>Docks - The additional area needed for the wider dock designs is entirely within the area that has been assessed in the Underwater Archaeological Assessment and Water Assessment and Water Body Reports. There would be no impacts to underwater archeological or environmental items of interests and no changes to previous recommendations.</p>
REA technical documentation modification	Only require mapping to be updated	<p>See cover letter that lists the maps/ figures and text that needs to be amended.</p> <p>Note: the amendment to the dock layout is slight enough to not make a difference on the maps. It is believed this amendment is not necessary.</p>
Proponent notification	Not applicable	The updated figures/ mapping will be posted on the project web site.
Public consultation		<p>Underground cable vault - It is believed no additional public notification is required since there is no additional land is being used for the proposed figure/map amendments and change is administrative.</p> <p>Docks – the widening of the main segments of docks and re-design of the ends the docks is minimal and it is believed no additional public notification is required since the change is minor with no overall impacts to receptors or the environment.</p>