SOUTH KENT WIND PROJECT
Natural Heritage
Evaluation of Significance

Prepared for:
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Niagara Falls, Ontario Canada L2E 7J7

Project No. 1184 Date: April 2012

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

SOUTH KENT WIND PROJECT
Natural Heritage Evaluation of Significance

Project Team:

Staff	Role
David E. Stephenson	Senior Biologist/Project Advisor
Andrew G. Ryckman	Project Manager/Biologist
Barry A. Moss	Terrestrial and Wetland Biologist
Christy L. Humphrey	Terrestrial and Wetland Biologist
Kevin S. Dance	Terrestrial and Wetland Biologist
Tara Lessard	Terrestrial and Wetland Biologist
Katherine St. James	Terrestrial and Wetland Biologist
Patrick Deacon	Terrestrial and Wetland Biologist
Charlotte Moore	Terrestrial and Wetland Biologist
Sophie A. Gibbs	Terrestrial and Wetland Biologist
Nathan Miller	Terrestrial and Wetland Biologist
Leslie A. Nanibush	GIS Technician

Report submitted on April 27, 2012

Andrew G. Ryckman

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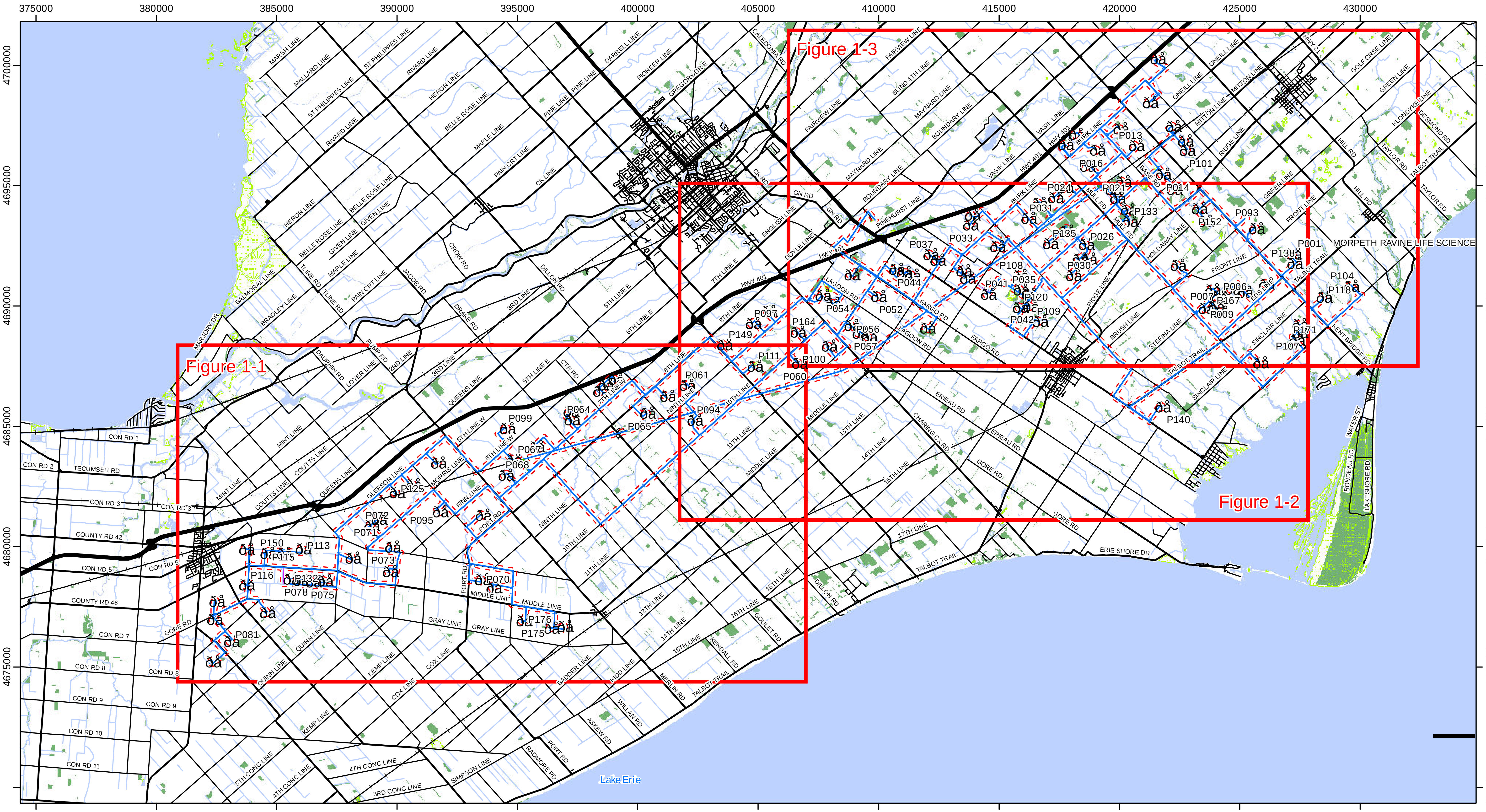
1.0 Introduction

Natural Resource Solutions Inc. (NRSI) was retained in September 2010 by Hatch Ltd., on behalf of Samsung Renewable Energy and Pattern Energy to complete an Evaluation of Significance (EOS) in accordance with the Renewable Energy Approval (REA) regulation for a proposed 270 MW wind energy generating facility in the Regional Municipality of Chatham-Kent, Ontario. The EOS report is the third report in a series completed in support of the natural heritage component for the REA process and includes consideration of the already completed South Kent Wind Project: Records Review Report (NRSI 2012a) and South Kent Wind Project: Site Investigation Report (NRSI 2012b)

The South Kent Wind Project ("the Project"), proposed by Samsung Renewable Energy and Pattern Energy, is located in the southern half of the Regional Municipality of Chatham-Kent, between Highway 401 and the shoreline of Lake Erie (north and south) and the Towns of Tilbury and Ridgetown to the west and east respectively. The Project is proposed to be 270 MW in size, consisting of approximately one hundred and twenty-four (124) operational wind turbines, as well as supporting infrastructure, including access roads, construction and vehicle turnaround areas, and buried and/or overhead collection/transmission lines. The collection/transmission system will include approximately 34 km of 230 kV transmission line and two (2) substations to enable step-up of the voltage from 34.5kV to 230 kV to connect to Chatham Switching Station (SS). As identified in the REA Regulation, the proposed layout of these Project components is collectively referred to as the 'Project location'. In accordance with Section 26 of the REA Regulation, NRSI has conducted a detailed records review and site investigation to identify any natural features within 120 m of the proposed Project location. This includes areas within 120 m of proposed turbine blade tip as well as any areas proposed for construction or development activities, including access roads, temporary lay-down areas, truck turn-around areas, crane pads, access roads, distribution and transmission lines. Within this report, the 'Project Area' refers to this area of 120 m surrounding the Project location. The proposed project location and area are depicted in Figures 1-1, 1-2, and 1-3.

The proposed Project components will occur primarily within areas of active agricultural practices, including rotational crops of corn and soy beans. Other land uses, including hayfields and agricultural pasture, are also expected to be present within the general Project area. Fragmented woodlands, hedgerows, and small wetland pockets are characteristic of this area of Ontario, and are expected to be occasionally present throughout the Project area.



Key Map

South Kent Wind Project

Project Components

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 1 2 4 km

April 23, 2012. Project No: NRSI-1184.
UTM Zone 17, NAD 83 Scale: 1:150,000 (at 11x17")

Legend

- Project Area (April, 2012)
- Proposed Turbine (L020)
- Substation
- Cabling
- Access Road
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Waterbody
- Wetland Area
- Wooded Area

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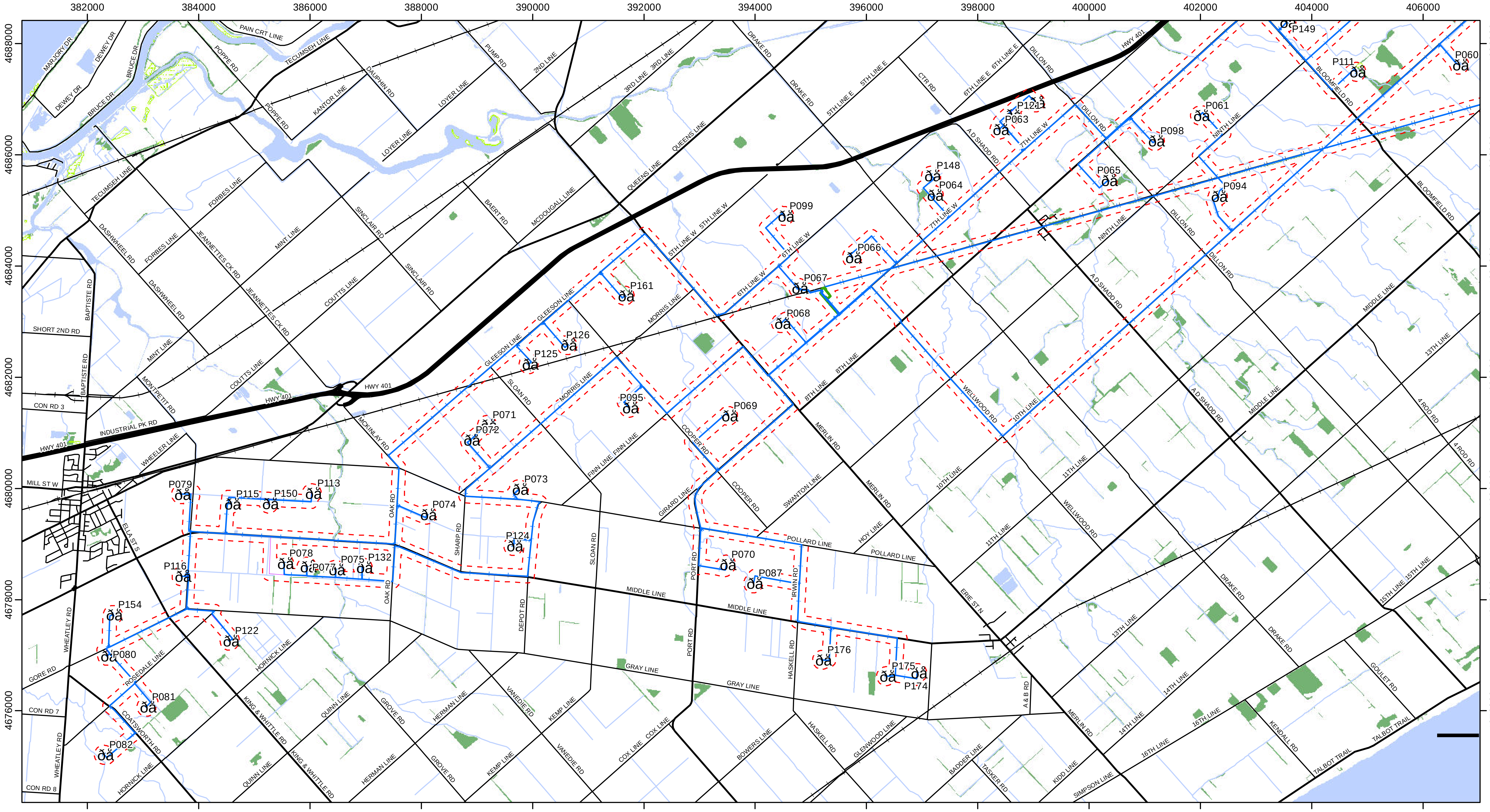

Figure 1-1

South Kent Wind Project

Project Components

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 0.5 1 2 km

April 23, 2012. Project No: NRSI-1184.
UTM Zone 17, NAD 83 Scale: 1:65,000 (at 11x17")

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Legend

- Project Area (April, 2012)
- Proposed Turbine (L020)
- Substation
- Cabling
- Access Road
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Waterbody
- Wetland Area
- Wooded Area

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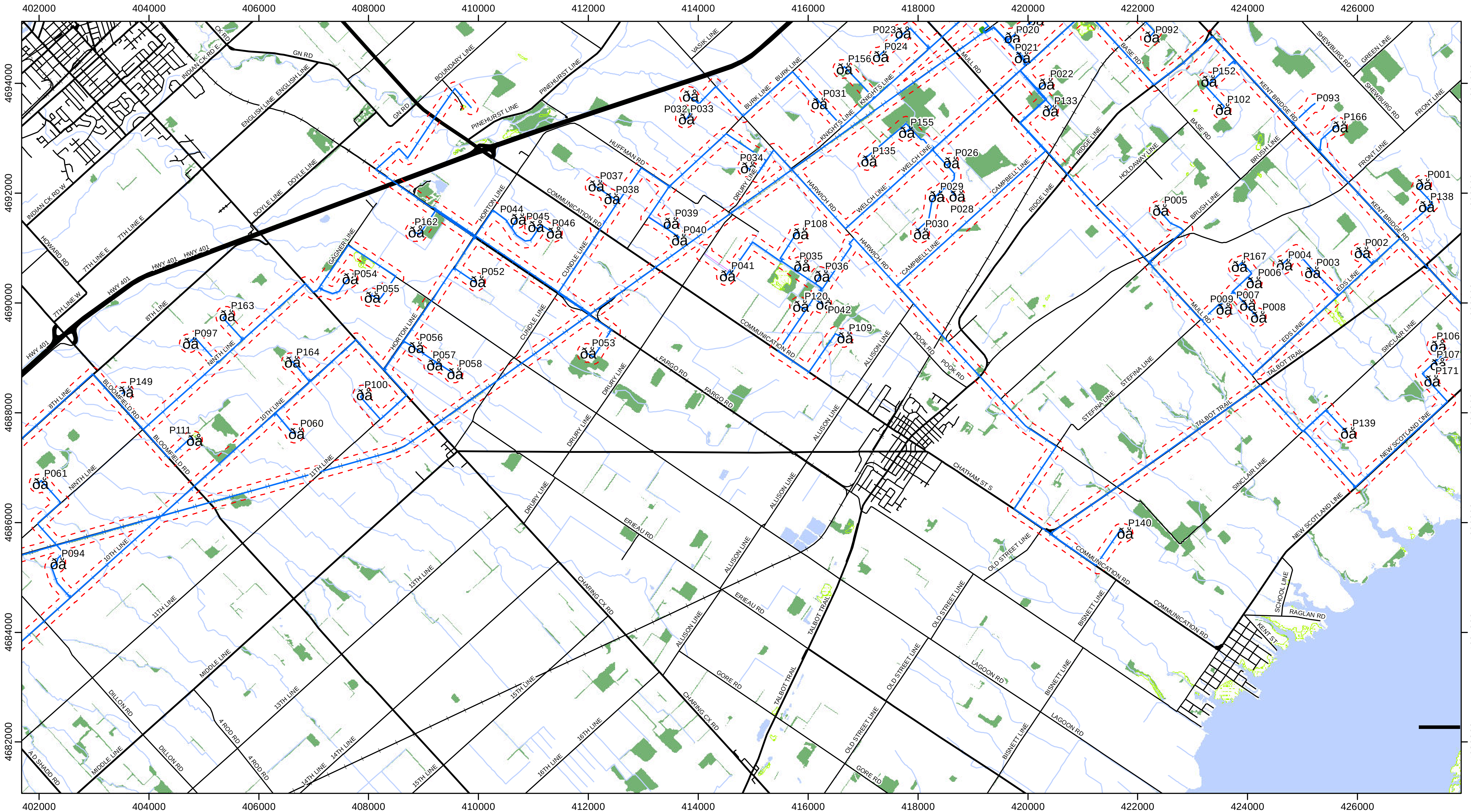

Figure 1-2

South Kent Wind Project

Project Components

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 0.5 1 2 km

April 23, 2012. Project No: NRSI-1184.
UTM Zone 17, NAD 83 Scale: 1:65,000 (at 11x17")

Legend

- Project Area (April, 2012)
- Proposed Turbine (L020)
- Substation
- Cabling
- Access Road
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Waterbody
- Wetland Area
- Wooded Area

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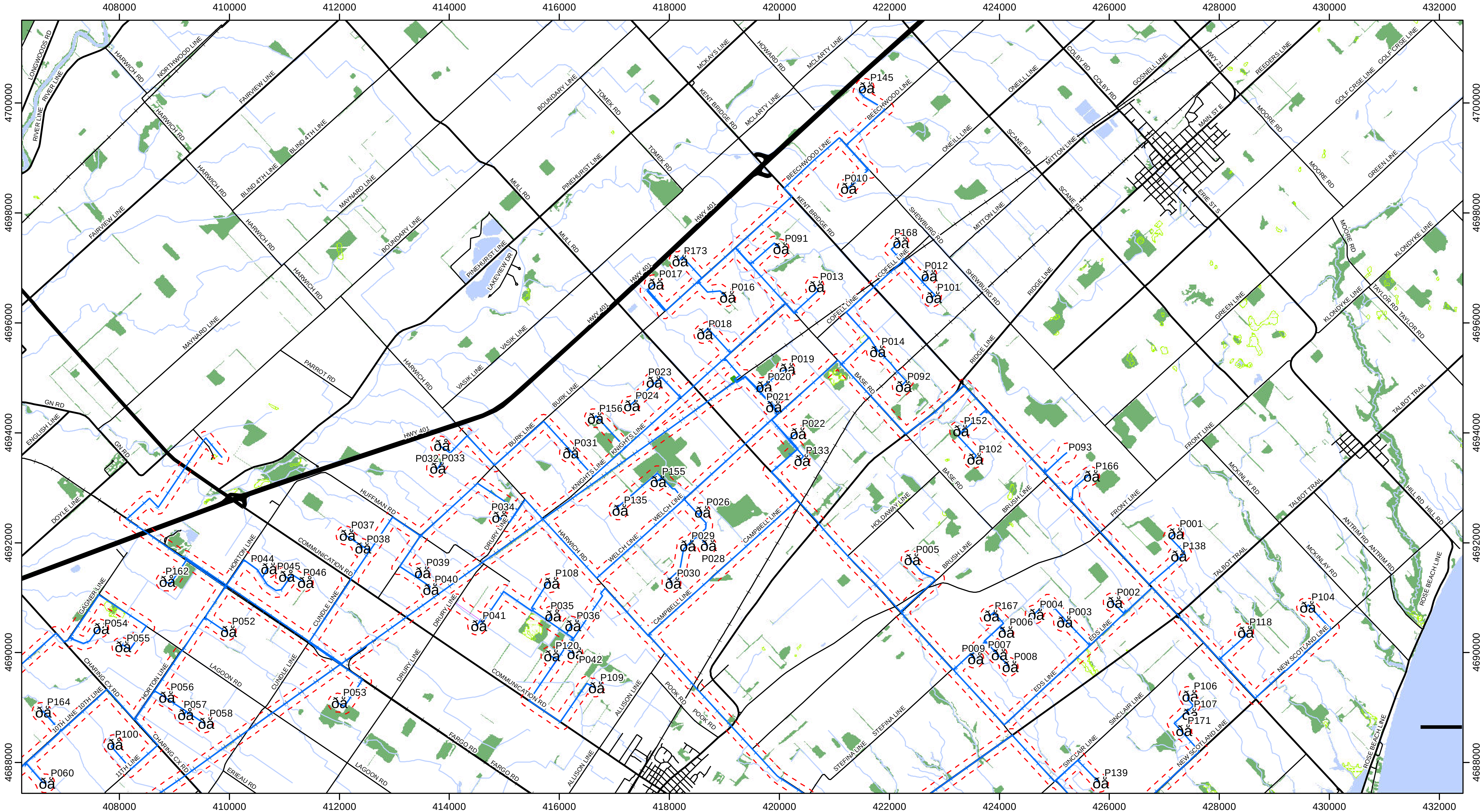

Figure 1-3

South Kent Wind Project

Project Components

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 0.5 1 2 km

April 23, 2012. Project No: NRSI-1184.
UTM Zone 17, NAD 83 Scale: 1:65,000 (at 11x17")

Legend

- Project Area (April, 2012)
- ðå Proposed Turbine (L020)
- Substation
- Cabling
- Access Road
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Waterbody
- Wetland Area
- Wooded Area

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2.0 REA Requirements

Ontario Regulation 359/09 – Renewable Energy Approvals Under Part V.0.1 of the Act, (herein referred to as the REA Regulation) made under the Environmental Protection Act identifies the requirements for the development of renewable energy projects in Ontario. In accordance with REA regulation, the Project is classified as a Class 4 wind facility, and is required to complete a REA.

In accordance with Section 27 of the REA regulation, a Natural Heritage Evaluation of Significance is required to be undertaken on any natural feature identified within the limits of the Project location. This includes all areas within 120 m of proposed Project components, including turbine locations (measured from blade tip), access roads, cabling, and construction lay-down areas, as well as any areas that may be used as temporary lay-down areas. The purpose of the Evaluation of Significance (EOS) is to identify which natural features warrant significant classification based on the review of background information and results of site specific field studies, located in the reports South Kent Wind Project: Records Review Report (NRSI 2012a) and South Kent Wind Project: Site Investigation Report (NRSI 2012b).

Species at Risk (SAR), species that have been designated as Threatened or Endangered within Ontario, are warranted protection under the Endangered Species Act (2007). Although NRSI has considered these species during all stages of records review, site investigation, and evaluation of significance, they will be addressed in detail in the Approval and Permitting Requirements Document, which is separate from the Natural Heritage Assessment, to be submitted at a later date.

3.0 Staff Roles

The requirements of the REA process indicate that the name and qualifications of all staff participating in the evaluation of significance. As a result, the qualifications and roles of all staff participating in the completion of the Project have been provided in the following sections.

3.1 David E. Stephenson, M.Sc.

David is a senior biologist with more than twenty (20) years of experience in environmental consulting. He specializes in natural resource inventories and evaluations, Project management, and research and impact studies. David's primary area of expertise is floral inventories, but has lead several multidisciplinary study teams on a wide variety of Project types. David is a certified arborist (1999), and is certified in Ecological Land Classification System for Southern Ontario (2001) and the OMNR Wetland Evaluation System (1993).

David's role in the Project was to act as Project advisor to the team identified below. He provided his experience with several provincial guidelines as the Project moved through the site investigation and evaluation of significance phase.

3.2 Andrew G. Ryckman, B.Sc.

Andrew is a Terrestrial and Wetland Biologist with seven (7) years of environmental experience. He routinely manages the natural heritage aspects of renewable energy projects, with specific expertise relating to bats and herpetofauna. Andrew is certified in Ecological Land Classification (2010), and has successfully completed a Bat Conservation International (BCI) Acoustic Monitoring Workshop (2008).

Andrew's role in the Project was to act as the Project manager, overseeing all aspects of the Natural Heritage Assessment, including all associated field work and reporting. He also assisted in vegetation mapping of the Project area, and was the main contact point for agency staff. Andrew assisted with the preparation of all appropriate reports, and worked with other staff to evaluate the significance of several of the natural features within the Project area.

3.3 Barry A. Moss, B.E.S.

Barry is a Terrestrial and Wetland Biologist with two (2) years of experience working on environmental assessments for wind, solar, and hydro developments. His experience on these projects includes background review, vegetation mapping and rare species assessment, bird and bat surveys, post construction monitoring, and report generation. Barry is trained in the Ecological Land Classification System (2010) and has experience implementing the OMNR Wetland Evaluation Systems.

Barry was heavily involved in the site investigation and vegetation mapping of the natural features within the Project. He used his ELC training to conduct site-specific mapping of woodlands, fencerows, meadows, and other natural and cultural communities within the Project area.

3.4 Christy L. Humphrey, B.E.S.

Christy has more than two (2) years of environmental consulting experience, working on a variety of Project tasks. Her primary areas of expertise are vegetation mapping and floral inventories, but she has experience conducting bird and bat assessments, amphibian studies, and other fauna assessments. Christy is certified in both the Ecological Land Classification (ELC) for Southern Ontario (2010) and Northeastern Ecological Land Classification (2010), and participated in the Ontario MNR Bat Monitoring Workshop for Wind Power Projects (2010).

Christy assisted with some of the site specific field investigations of the natural features surrounding proposed turbine locations and roadside collector cabling. She also assisted the preparation of all of the Natural Heritage Assessment reports and provided input on the evaluation of significance relating to bat habitats.

3.5 Kevin S. Dance, M.E.S. (Candidate 2010)

Kevin is a Terrestrial and Wetland Biologist with five (5) years' experience working on a variety of environmental projects, including extensive experience in the renewable energy industry. Kevin's primary area of expertise is in avian ecology with specialization in raptor behavior and ecology, and has conducted his master's research on raptor interactions around an operational wind energy facility in Ontario. Kevin is certified in Ecological Land Classification (2009).

Kevin's role in the Project included a review of the avian components of already completed bird studies that overlapped with the Project area. He used his review to provide input into the Records Review Report and Evaluation of Significance Report as it related to potentially significant bird habitats within the Project area.

3.6 Tara Lessard

Tara is a Terrestrial and Wetland Biologist with more than 4 years of experience working in the environmental field. During her consulting experience, Tara has conducted bird and bat assessments, amphibian studies, and other fauna assessments throughout Ontario. Tara has participated in field investigations and reporting for wind power projects in Ontario and New Brunswick.

Tara's role in the Project was overseeing aspects of the Natural Heritage Assessment, including field work and reporting. Tara assisted with the preparation of all appropriate reports, and assisted with some of the site specific field investigations of the natural features surrounding proposed turbine locations and roadside transmission cabling.

3.7 Katherine St. James

Katherine is a Terrestrial and Wetland Biologist with more than 3 years of experience working in the environmental field. She specializes in environmental sciences, ecology, and bio-geographical studies, and completed her master's research on potential barrier effects on salamander populations. During her master's research and consulting experience, Katherine has routinely conducted ecological assessments and collected field information on vegetation, birds, amphibians, and other wildlife species throughout Ontario.

Katherine assisted with some of the site specific field investigations of the natural features surrounding proposed turbine locations and roadside transmission cabling.

3.8 Patrick Deacon

Patrick is a Terrestrial Biologist with 4 years of environmental experience. He regularly conducts vegetation inventories and community mapping, and specializes in ecological restoration with particular focus on Species At Risk, tallgrass prairie ecosystems, and invasive species management. Patrick is a certified low-complexity prescribed burn worker.

Patrick conducted the vegetation mapping and floral inventories along the proposed transmission line that follows the existing railway line. He was able to rely on his experience working in tallgrass prairie and savannah habitats to look for remnant prairie habitats, indicator species, and rare floral species.

3.9 Charlotte Moore

Charlotte is a Terrestrial and Wetland Biologist with two field seasons of experience in butterfly ecology and various environmental projects. Charlotte has completed her Bachelor of Environmental Studies and is a candidate for a Masters of Environmental Studies (2013) at the University of Waterloo. Her Masters research will involve measuring the success of past restoration efforts using butterfly abundance and diversity in the riparian zones of several creeks. Charlotte has worked on a variety of other environmental projects, including forest health plot assessment, salamander and benthic invertebrate monitoring, and leading environmental education programs and hikes.

Charlotte assisted with some of the site specific field investigations of the natural features surrounding proposed turbine locations and roadside transmission cabling.

3.10 Sophie Gibbs

Sophie is a Terrestrial and Wetland Biologist who graduated from Trent University with a joint degree in biology and environmental science. She has over 2 years of practical work experience, both in a field and lab setting. She holds a keen interest in all aspect of natural history, but specializes in avian ecology and plant identification. Past experiences include identifying aquatic invertebrates using OBBN protocol, and conducting dragonfly surveys. With NRSI Sophie has routinely conducted ecological assessments, and collected field data on vegetation, birds, bats, amphibians, and reptiles in Ontario.

Sophie assisted with some of the site specific field investigations of the natural features surrounding proposed turbine locations and roadside transmission cabling.

3.11 Nathan Miller

Nathan graduated from the University of Guelph with a B.Sc. in Wildlife Biology and a M.Sc. in Integrative Biology. Research for Nathan's M.Sc. focused on the migration and conservation of the monarch butterfly throughout Canada and the United States. Nathan also has extensive experience conducting research on a wide range of wildlife species including birds, mammals, herptiles, insects and plants acquired while working as a naturalist for the Ministry of Natural Resources in Algonquin Park and an environmental consultant.

Nathan assisted with some of the site specific field investigations of the natural features surrounding proposed turbine locations and roadside transmission cabling.

3.12 Leslie A. Nanibush

Leslie has more than four (4) years of experience working on GIS/GPS mapping tasks for a variety of environmental projects since graduating from the Geomatics Technician program from Sir Sandford Fleming College. Leslie routinely provides mapping support for Ecological Land Classification and Species At Risk projects throughout Ontario.

Leslie's role in the Project was the primary GIS technician. She reviewed and collected all available background and site investigation mapping resources to compile into Project mapping.

4.0 Site Investigation Summary

In accordance with the REA regulation and the requirements of MNR, comprehensive site investigations were undertaken to document the environmental and biological characteristics of the Project. These site-specific field investigations focused on vegetation community mapping, since several years of biological monitoring has already occurred within the Project area. The detailed methodology and full results of this site investigation can be found in the South Kent Wind Project: Site Investigation Report (NRSI 2012b). A summary of the natural features identified within 120 m of Project components have been provided in Table 1a - Site Investigation Summary and Evaluation of Significance Requirements for the Project and Table 1b – Site Investigation Summary and Evaluation of Significance Requirements for the Other Project Components at the Project below.

Table 1a. Site Investigation Summary and Evaluatio n of Significance Requirements for the Proposed Turbines within the Project Area

This table identifies the natural features that have been identified within 120 m of each proposed turbine, and their distances from Project components. These features include: woodlands, wetlands, and other natural features which may provide significant wildlife habitat. An Evaluation of Significance (EOS) is required where any natural feature is located within 120 m of the Project location.

In the following table, the term ‘in’ has been attributed to proposed Project components that are located within a natural feature. Project components which are immediately adjacent to a natural feature are identified as being located <1 m from the natural feature. Project components adjacent to a natural feature are identified as being 1 m to 10 m from the natural feature. In most cases, the access roads have been attributed to individual proposed turbines.

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P001	P001-W1 (54 m from turbine)	No	Bat Maternity Roost P001-W1 (54 m from turbine)	No	Habitat for S-Ranked Bat Species P001-W1 (54 m from turbine)	P001-H2 (in access road/ cabling) P138-H1 (in access road/ cabling)	Yes
P002	No	No	Reptile Hibernacula (immediately adjacent to cabling)	No	No	P002-H1 (immediately adjacent to access road/cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P003	No	No	No	No	No	P003-H1 (adjacent to access road/ cabling)	Yes
P004	No	No	No	No	No	P009-D1 (immediately adjacent to turbine) P004-H1 (immediately adjacent to turbine/access road/cabling) P003-H1 (immediately adjacent to access road/cabling) P003-H2 (75m from turbine)	Yes
P005	No	No	No	No	No	P005-H1 (immediately adjacent to access road/cabling) P005-H2 (60 m from turbine) P005-D2 (immediately adjacent to access road/cabling)	Yes
P006	No	No	No	No	No	P009-D1 (in cabling/access road) P003-H2 (in cabling/access road)	Yes
P007	No	No	No	No	No	P009-D1 (in access road/ cabling) P009-H1 (in access road/ cabling)	Yes
P008	No	No	No	No	No	No	No

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P009	No	No	No	No	No	P009-D1 (in access road/ cabling) P009-D2 (in access road cabling) P009-H1 (in access road/ cabling) P009-H3 (in cabling) P009-H4 (in access road/ cabling) P009-H5 (20 m from cabling)	Yes
P010	No	No	No	No	No	P010-H2 (110 m from turbine)	Yes
P012	P011-W1 (in access road/cabling) RB-B1 (22m to cabling and access road)	No	No	Tallgrass Prairie RB-B1 (22m to cabling and access road) Savannah RB-B1 (22m to cabling and access road)	Habitat for S-Ranked Bat Species P011-W1 (in access road/ cabling) Habitat for S-Ranked Bat Species RB-B1 (22m to cabling and access road)	P101-D1 (18 m from turbine) P011-H1 (18 m from turbine) P012-H1 (18 m from turbine) RB-B1 (22m to cabling/access road)	Yes
P013	No	No	No	No	No	P019-D2 (in cabling/ cabling/access road) P013-H1 (36 m from turbine and 33m from access road/ cabling)	Yes
P014	No	P014-WE1 (immediately adjacent to access road/ cabling)	No	Amphibian Breeding Habitat P014-WE1 (immediately adjacent to access road/ cabling)	Habitat for S-Ranked Bat Species P014-WE1 (immediately adjacent to access road/ cabling)	P013-D1 (87 m from access road/ cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P016	No	No	No	No	No	P016-D2 (immediately adjacent to cabling/access road) P016-H1 (84 m from turbine) P016-H3 (immediately adjacent to cabling/access road)	Yes
P017	P017-W1 (92 m from turbine)	No	No	No	Habitat for S-Ranked Bat Species P017-W1 (92 m from turbine)	P018-D1 (immediately adjacent cabling/access road)	Yes
P018	No	No	No	No	No	P018-D1 (84 m from cabling/access road)	Yes
P019	No	No	No	No	No	No	No
P020	No	No	No	No	No	SSS-D1 (immediately adjacent to cabling) P020-H1 (immediately adjacent to cabling)	Yes
P021	No	No	No	No	No	P020-H1 (70 m to cabling/access road)	Yes
P022	P022-W1 (in cabling)	No	No	No	Habitat for S-Ranked Bat Species P022-W1 (in cabling) Area Sensitive Bird Breeding Habitat P022-W1 (in cabling)	SSS-D1 (in cabling)	Yes
P023	No	No	No	No	No	P023-D1 (immediately adjacent to access road/cabling) P023-H1 (85 m to turbine) P023-H2 (immediately adjacent to access road/cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P024	No	No	No	No	No	P156-D2 (in access road/ cabling)	Yes
P026	No	No	No	No	No	P026-D1 (in cabling) P155-H1 (immediately adjacent to cabling/access road)	Yes
P028	No	No	Reptile Hibernacula (57 m to cabling/access road)	No	No	P029-H1 (in cabling/access road)	Yes
P029	No	No	No	No	Open Country Bird Breeding Habitat (in cabling/access road) (37 m from turbine)	No	Yes
P030	No	No	No	No	Open Country Bird Breeding Habitat (in cabling/access road)	P030-D1 (in cabling/access road)	Yes
P031	No	No	No	No	No	P031-D1 (in cabling)	Yes
P032	No	No	No	No	No	P032-D1 (in access road/ cabling)	Yes
P033	P033-W1 (adjacent to cabling/access road)	No	No	No	Habitat for S-Ranked Bat Species P033-W1 (adjacent to cabling/access road)	P033-D1 (in cabling/access road) P033-H1 (79 m cabling/access road)	Yes
P034	RB-E3 (immediately adjacent to cabling)	No	No	Savannah RB-E3 (immediately adjacent to cabling)	Habitat for S-Ranked Bat Species RB-E3 (immediately adjacent to cabling)	RB-E3 (immediately adjacent to cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P035	P108-W1 (16m to access road) (86m to turbine)	P108-WE1 (16m to access road) (86m to turbine)	Bat Maternity Roost P108-W1 P108-WE1 (16m to access road) (86m to turbine)	Amphibian Breeding Habitat P108-W1 P108-WE1 (16m to access road) (86m to turbine)	Habitat for S-Ranked Bat Species P108-W1 P108-WE1 (16m to access road) (86m to turbine) Area Sensitive Bird Breeding Habitat P108-W1 P108-WE1 (16m to access road) (86m to turbine)	P035-H1 (in access road and cabling)	Yes
P036	P108-W1 (16m to access road)	P108-WE1 (16m to access road)	Bat Maternity Roost P108-W1 P108-WE1 (16m to access road)	Amphibian Breeding Habitat P108-W1 P108-WE1 (16m to access road)	Habitat for S-Ranked Bat Species P108-W1 P108-WE1 (16m to access road) Area Sensitive Bird Breeding Habitat P108-W1 P108-WE1 (16m to access road)	P035-D1 (75 m from turbine) P035-H1 (in cabling/access road) P120-H1 (immediately adjacent to cabling/access road) P120-H2 (immediately adjacent to cabling/access road)	Yes
P037	No	No	No	No	No	P037-D1 (85 m from turbine) P037-H1 (30 m from turbine) P038-H1 (30 m from turbine and 27m from cabling/access road)	Yes
P038	No	No	No	No	No	P037-D1 (in cabling) CLA-D3 (immediately adjacent to access road) P038-H1 (30 m from turbine and 27m from access road/ cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P039	No	No	No	No	No	P037-D1 (in cabling) P041-D1 (in cabling) P040-H2 (84 m from turbine)	Yes
P040	RB-A2 (90 m from turbine) RB-E4 (70 m from turbine and 67m from access road)	No	Bat Maternity Roost RB-A2 (90 m from turbine)	No	Habitat for S-Ranked Bat Species RB-A2 (90 m from turbine) RB-E4 (70 m from turbine and 67m from access road)	P041-D1 (72 m from turbine and 69m from cabling/access road) P040-H2 (72 m from turbine and 69m from cabling/access road) RB-A2 (90 m from turbine) RB-E4 (70 m from turbine)	Yes
P041	No	No	No	No	No	P041-D1 (in cabling/access road) P041-H1 (in cabling/access road) P040-H2 (immediately adjacent to cabling)	Yes
P042	No	No	No	No	No	P120-H1 (in cabling/access road) P120-H2 (in cabling/access road) P042-H1 (110 m from turbine)	Yes
P044	No	No	No	No	No	P045-D1 (in cabling/access road) P044-H1 (immediately adjacent to cabling/access road)	Yes
P045	No	No	No	No	No	P045-D1 (immediately adjacent to access road/cabling) P045-H1 (adjacent to cabling/access road)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P046	No	No	No	No	No	CLA-H1 (15 m from turbine)	Yes
P052	No	No	No	No	No	P052-D1 (85m from turbine) P051-D1 (immediately adjacent to cabling/access road/) P110-D1 (in cabling) P051-H1 (immediately adjacent to cabling) P052-H1 (84 m from turbine)	Yes
P053	P053-W3 (52 m from turbine) P053-W4 (30 m to access road/ cabling)	No	No	No	Habitat for S-Ranked Bat Species P053-W3 (52 m from turbine) P053-W4 (30 m to access road/cabling)	No	Yes
P054	No	No	No	No	No	P055-D1 (immediately adjacent to access road/cabling) P054-H1 (18 m from turbine)	Yes
P055	No	No	No	No	No	P055-D1 (in access road/ cabling)	Yes
P056	No	No	No	No	No	P056-D2 (immediately adjacent to turbine/ cabling/access road)	Yes
P057	No	No	No	No	No	P056-D2 (110 m from turbine) P057-D1 (in cabling/access road)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P058	No	No	No	No	No	P058-D1 (in cabling/access road) P058-D2 (immediately adjacent to cabling) P057-H1 (immediately adjacent to cabling) P058-H1 (immediately adjacent to cabling)	Yes
P060	No	No	No	No	No	P060-D1 (in turbine/adjacent to cabling/access road) P111-D1 (in access road/ cabling) P060-H4 (in turbine) P060-H5 (adjacent to cabling/access road)	Yes
P061	No	No	No	No	No	P094-D2 (immediately adjacent to cabling/ cabling/access road) P094-D5 (in) P061-H1 (95 m from turbine)	Yes
P062	No	No	No	No	No	P121-H1 (in access road/cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P063	No	No	No	No	No	P063-D1 (adjacent to cabling/access road) P063-D2 (immediately adjacent to cabling) P063-H1 (immediately adjacent to cabling/access road) P063-H2 (73 m to cabling)	Yes
P064	P064-W1 (66 m to turbine)	No	No	No	Habitat for S-Ranked Bat Species P064-W1 (66 m to turbine)	P064-D1 (immediately adjacent to cabling/access road)	Yes
P065	P065-W1 (76 m from turbine and 73m from access road) P065-W2 (84 m from turbine and 81m from access road)	No	Reptile Hibernacula (immediately adjacent to cabling)	No	Habitat for S-Ranked Bat Species P065-W1 (76 m from turbine and 73m from access road) P065-W2 (84 m from turbine and 81m from access road)	P065-D1 (in cabling) P065-D2 (84 m from turbine) P065-H1 (in cabling/ access road)	Yes
P066	RB-F3 (immediately adjacent to cabling)	No	No	Savannah RB-F3 (immediately adjacent to cabling)	Habitat for S-Ranked Bat Species RB-F3 (immediately adjacent to cabling)	P064-D1 (immediately adjacent to cabling/access road) P066-H1 (36 m from turbine) P066-H2 (immediately adjacent to access road/cabling) RB-F3 (immediately adjacent to cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P067	RB-F3 (in cabling/38 m from turbine)	No	No	Savannah RB-F3 (in cabling/38 m from turbine)	Habitat for S-Ranked Bat Species RB-F3 (in cabling/38 m from turbine)	P067-H2 (immediately adjacent to cabling) RSS-H1 (in cabling) RB-F3 (in cabling/38 m from turbine)	Yes
P068	No	No	No	No	No	P068-D1 (37 m from cabling/access road) P068-H1 (72 m from turbine)	Yes
P069	No	No	No	No	No	P069-H1 (immediately adjacent to cabling/access road) P069-H2 (72 m to access road/ cabling) P069-D1 (72 m to access road/ cabling) P069-D2 (72 m to access road/ cabling)	Yes
P070	No	No	No	No	No	P070-H1 (immediately adjacent to cabling/access road) P070-D1 (70 m from turbine)	Yes
P071	No	No	No	No	No	No	No
P072	No	No	Reptile Hibernacula (immediately adjacent to access road and cabling)	No	No	P072-D1 (immediately adjacent to cabling/access road) P072-H1 (immediately adjacent to cabling/access road)	Yes
P073	No	No	No	No	No	P124-D1 (in cabling) P072-D1 (in access road/ cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P074	No	No	Reptile Hibernacula (in cabling/immediately adjacent to access road)	No	No	P074-D1 (immediately adjacent to access road/cabling)	Yes
P075	P114-W1 (in access road/ cabling) (58m to turbine)	No	No	No	Habitat for S-Ranked Bat Species P114-W1 (in access road/ cabling) (58m to turbine)	P114-D1 (in access road/ cabling) P116-D2 (immediately adjacent to access road/cabling)	Yes
P077	P077-W1 (90m from turbine/in access road/ cabling)	No	No	No	Habitat for S-Ranked Bat Species P077-W1 (90m from turbine/in access road/ cabling)	P116-D2 (immediately adjacent access road/cabling) P078-H1 (immediately adjacent to access road/cabling) P078-H3 (immediately adjacent to access road/cabling)	Yes
P078	No	No	No	No	No	P078-H2 (immediately adjacent to access road/cabling) P078-H3 (immediately adjacent to access road/cabling) P078-H4 (immediately adjacent to access road/cabling)	Yes
P079	No	No	No	No	No	P079-D1 (in cabling) P115-D1 (immediately adjacent to access road/cabling) P116-D1 (adjacent to cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P080	No	No	No	No	No	P080-D1 (62 m from access road/ cabling) P080-H1 (immediately adjacent to access road/ cabling)	Yes
P081	No	No	No	No	No	P081-D2 (106 m from access road/ cabling) P081-H2 (106 m from access road/ cabling)	Yes
P082	P082-W1 (adjacent to access road/ cabling)	No	No	No	Habitat for S-Ranked Bat Species P082-W1 (adjacent to access road/ cabling)	P081-D2 (in cabling) P082-D1 (in cabling) P083-D1 (in access road/ cabling) P083-D5 (51 m to turbine) P082-H1 (87 m to access road)	Yes
P087	No	No	No	No	No	P070-D1 (84 m to access road/cabling)	Yes
P091	P091-W1 (112 m to turbine and 109m to access road)	No	No	No	Habitat for S-Ranked Bat Species P091-W1 (112 m to turbine and 109m to access road)	P091-H1 (immediately adjacent to access road/ cabling) P091-H2 (54 m to access road/cabling)	Yes
P092	P092-W1 (77 m to turbine and 74m to access road)	No	No	No	Habitat for S-Ranked Bat Species P092-W1 (77 m to turbine and 74m to access road)	P015-H1 (in access road/ cabling) P015-H2 (immediately adjacent to access road/cabling) P092-H1 (104 m to access road/cabling)	Yes
P093	No	No	No	No	No	No	No

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P094	RB-F2 (in cabling)	No	No	Savannah RB-F2 (in cabling)	Habitat for S-Ranked Bat Species RB-F2 (in cabling)	P094-D1 (immediately adjacent to access road) P094-H1 (immediately adjacent to access road) P094-H2 (immediately adjacent to access road/cabling) P094-H3 (immediately adjacent to cabling) RB-F2 (in cabling)	Yes
P095	No	No	No	No	No	P071-D4 (immediately adjacent to access road/cabling) P095-H2 (immediately adjacent to access road/cabling)	Yes
P097	No	No	No	No	No	P097-D1 (in access road/ cabling) P097-H1 (immediately adjacent to access road/cabling) P111-H1 (in cabling/ immediately adjacent to access road)	Yes
P098	No	No	No	No	No	P098-D1 (in access road/ cabling)	Yes
P099	No	No	No	No	No	P099-H1 (immediately adjacent to access road/cabling) P119-H1 (immediately adjacent to access road/ cabling)	Yes
P100	No	No	No	No	No	P100-D1 (immediately adjacent to cabling) P100-H1 (immediately adjacent to access road/cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P101	No	No	No	No	No	P101-D1 (66 m to access road/ cabling P012-H1 (in access road/ cabling)	Yes
P102	P102-W2 (in access road/ cabling)	No	No	No	Habitat for S-Ranked Bat Species P102-W2 (in access road/ cabling)	P102-H3 (immediately adjacent to access road/cabling)	Yes
P104	No	No	Waterfowl Stopover and Staging Area (in turbine/ access road/ cabling)	No	No	P104-D1 (in access road) P104-H1 (adjacent to access road/cabling) P104-H2 (in cabling/immediatel y adjacent to access road)	Yes
P106	No	No	Waterfowl Stopover and Staging Area (in turbine/ access road/ cabling)	No	No	P106-D1 (in access road/ cabling) P106-H1 (59 m to access road/ cabling) P106-H2 (in access road/immediately adjacent to cabling)	Yes
P107	No	No	Waterfowl Stopover and Staging Area (in turbine/ access road/ cabling)	No	No	P107-H1 (immediately adjacent to access road/ cabling) P107-H2 (immediately adjacent to access road/ cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P108	P108-W1 (adjacent to cabling/acces s road)	P108-WE1 (adjacent to cabling/ac cess road)	Bat Maternity Roost P108-W1 P108-WE1 (adjacent to cabling/access road)	Amphibian Breeding Habitat P108-W1 P108-WE1 (adjacent to cabling/access road)	Habitat for S-Ranked Bat Species P108-W1 P108-WE1 (adjacent to cabling/access road) Area Sensitive Bird Breeding Habitat P108-W1 P108-WE1 (adjacent to cabling/access road)	P035-D1 (in access road/ cabling) P035-H1 (immediately adjacent to access road/cabling)	Yes
P109	P042-W1 (112 m to turbine and 109m to access road)	No	No	No	Habitat for S-Ranked Bat Species P042-W1 (112 m to turbine and 109m to access road) Area Sensitive Bird Breeding Habitat P042-W1 (112 m to turbine and 109m to access road)	P109-D1 (in access road/ cabling) P042-H1 (immediately adjacent to access road/ cabling)	Yes
P111	No	P111-WE1 (33 m to turbine)	No	No	Habitat for S-Ranked Bat Species P111-WE1 (33 m to turbine)	P111-H2 (30 m to access road/ cabling) P111-H3 (30 m to access road/ cabling) P111-H4 (in cabling/immediatel y adjacent to access road)	Yes
P113	No	No	No	No	No	P113-H1 (immediately adjacent to access road/cabling) P113-H2 (immediately adjacent to access road/cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P115	No	No	No	No	No	P115-D1 (adjacent to access road/cabling) P115-D2 (immediately adjacent to access road/cabling) P115-H1 (immediately adjacent to access road/cabling) P115-H2 (16 m to access road/cabling)	Yes
P116	No	No	No	No	No	P116-D1 (immediately adjacent to access road/cabling) P116-D2 (immediately adjacent to cabling) P116-D3 (immediately adjacent to cabling)	Yes
P118	P118-W1 (55 m to turbine and 52m to access road)	No	Waterfowl Stopover and Staging Area (in turbine/ access road/ cabling) Bat Maternity Roost P118-W1 (55 m to turbine and 52m to access road)	No	Habitat for S-Ranked Bat Species P118-W1 (55 m to turbine and 52m to access road)	P118-H1 (adjacent to access road/ cabling) P106-D2 (in access road/cabling)	Yes
P120	P108-W1 (76 m to turbine)	No	Bat Maternity Roost P108-W1 (76 m to turbine)	Amphibian Breeding Habitat P108-W1 (76 m to turbine)	Habitat for S-Ranked Bat Species P108-W1 (76 m to turbine) Area Sensitive Bird Breeding Habitat P108-W1 (76 m to turbine)	P108-D1 (112 m to cabling) P120-H1 (14 m to access road/cabling)	Yes
P121	No	No	No	No	No	P121-H1 (in access road/ cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P122	No	No	No	No	No	P081-D1 (immediately adjacent to access road/cabling) P122-D1 (in access road/ cabling) P122-H1 (immediately adjacent to access road/cabling)	Yes
P124	No	No	No	No	No	P124-D1 (immediately adjacent to cabling/access road) P124-D2 (in cabling/immediatel y adjacent to access road)	Yes
P125	RB-F3 (18 m to turbine)	No	No	Savannah RB-F3 (18 m to turbine)	Habitat for S-Ranked Bat Species RB-F3 (18 m to turbine)	P126-D2 (in cabling) P125-H1 (21 m to turbine) RB-F3 (18 m to turbine) P125-H2 (adjacent to cabling)	Yes
P126	No	No	No	No	No	P126-D1 (in cabling) P126-D2 (in access road/ cabling)	Yes
P132	No	No	No	No	No	P076-D3 (immediately adjacent to cabling) P116-D2 (immediately adjacent to cabling)	Yes
P133	P022-W1 (in cabling)	No	No	No	Habitat for S-Ranked Bat Species P022-W1 (in cabling) Area Sensitive Bird Breeding Habitat P022-W1 (in cabling)	P027-D1 (adjacent to cabling/access road)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P135	RB-A1 (immediately adjacent to cabling)	No	No	No	Habitat for S-Ranked Bat Species RB-A1 (immediately adjacent to cabling)	P031-D1 (immediately adjacent to access road/cabling) P031-H1 (27 m from cabling) P135-H1 (immediately adjacent to access road/cabling) P155-H1 (27 m to cabling) RB-A1 (immediately adjacent to cabling)	Yes
P138	No	No	No	No	No	P138-H1 (in access road/ cabling) P138-H2 (in access road/ cabling)	Yes
P139	No	No	Waterfowl Stopover and Staging Area (in turbine/ access road/ cabling)	No	No	P139-D1 (in cabling) P139-H1 (25 m to turbine)	Yes
P140	No	No	Waterfowl Stopover and Staging Area (in turbine/ access road/ cabling)	No	No	P140-D2 (in access road/ cabling) P140-H1 (adjacent to access road/ cabling) P140-H3 (immediately adjacent to access road/cabling)	Yes
P145	No	No	No	No	No	P010-H1 (immediately adjacent to cabling) P145-H1 (immediately adjacent to access road/cabling) P145-D1 (in cabling/immediately adjacent to access road)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P148	P064-W1 (immediately adjacent to access road/ cabling)	No	No	No	Habitat for S-Ranked Bat Species P064-W1 (immediately adjacent to access road/ cabling)	P064-D3 (in access road/ cabling) P064-H1 (in access road/ cabling)	Yes
P149	No	No	No	No	No	P117-D1 (in turbine/30 m to access road/ cabling)	Yes
P150	No	No	No	No	No	P115-D1 (immediately adjacent to access road/cabling) P113-H1 (immediately adjacent to access road/cabling)	Yes
P152	P102-W2 (in access road/ cabling)	No	No	No	Habitat for S-Ranked Bat Species P102-W2 (in access road/ cabling)	P102-D1 (in access road/ cabling) P102-H3 (immediately adjacent to access road/cabling)	Yes
P154	No	No	No	No	No	P080-D1 (immediately adjacent to cabling) P080-H1 (in access road/ cabling) P080-H3 (adjacent to cabling)	Yes
P155	P024-W2 (78 m to turbine)	No	No	No	Habitat for S-Ranked Bat Species P024-W2 (78 m to turbine)	P031-D1 (in access road/ cabling) P155-H1 (immediately adjacent to access road/cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P156	P024-W1 (27 m to cabling/access road) P156-W1 (immediately adjacent to access road/ cabling) RB-A (107 m to access road/ cabling)	No	No	No	Habitat for S-Ranked Bat Species P024-W1 (27 m to cabling/access road) P156-W1 (immediately adjacent to access road/ cabling) RB-A (107 m to access road/ cabling) Area Sensitive Bird Breeding Habitat P156-W1 (immediately adjacent to access road/ cabling)	P156-D2 (immediately adjacent to access road/ cabling) P031-H1 (immediately adjacent to access road/ cabling) RB-A (107 m to access road/cabling)	Yes
P161	No	No	No	No	No	P127-D1 (in access road/ cabling/immediately adjacent to cabling) P127-H2 (60 m to turbine)	Yes
P162	P162-W1 (17m to cabling) P162-W2 (14m to access road/cabling)	No	Reptile Hibernacula P162-W1 (17m to cabling)	Amphibian Breeding Habitat P162-W1 (17m to cabling)	Habitat for S-Ranked Bat Species P162-W1 (17m to cabling) P162-W2 (14m to access road/cabling) Area Sensitive Bird Breeding Habitat P162-W2 (14m to access road/cabling)	No	Yes
P163	No	No	No	No	No	P097-D1 (immediately adjacent to cabling) P096-H1 (in access road/ cabling) P096-H3 (in access road/cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P164	No	No	No	No	No	P112-D1 (immediately adjacent to access road/ cabling) P060-D1 (in cabling/immediately adjacent to cabling/access road) P112-H1 (immediately adjacent to access road/ cabling) P164-H1 (immediately adjacent to access road/ cabling)	Yes
P166	P166-W1 (74 m to turbine) P166-W2 (26 m to turbine)	No	No	No	Habitat for S-Ranked Bat Species P166-W1 (74 m to turbine) P166-W2 (26 m to turbine)	P093-H2 (adjacent to cabling) P093-H3 (adjacent to cabling) P166-H1 (79 m to turbine)	Yes
P167	No	No	No	No	No	P009-D1 (in access road/ cabling) P003-H2 (in access road/ cabling)	Yes
P168	RB-B (in cabling/immediately adjacent to access road/ cabling)	No	No	Tallgrass Prairie RB-B (in cabling/immediately adjacent to access road/ cabling) Savannah RB-B (in cabling/immediately adjacent to access road/ cabling)	RB-B (in cabling/immediately adjacent to access road/ cabling)	P011-D1 (in cabling/immediately adjacent to access road/ cabling) P101-D1 (in access road/ cabling/immediately adjacent to cabling) RB-B1 (in cabling/immediately adjacent to access road/ cabling)	Yes
P171	No	No	Waterfowl Stopover and Staging Area (in turbine/ access road/ cabling)	No	No	P002-D2 (in cabling) P107-H1 (immediately adjacent to access road/ cabling)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P173	P173-W1 (78 m to turbine)	No	No	No	Habitat for S-Ranked Bat Species P173-W1 (78 m to turbine)	P016-D2 (in access road/ cabling/immediately adjacent to cabling) P016-H4 (42 m to access road/ cabling) P173-H1 (immediately adjacent to access road/ cabling)	Yes
P174	No	No	No	No	No	P175-D1 (in access road/ cabling)	Yes
P175	No	No	No	No	No	P175-D1 (in access road/ cabling) P176-D2 (immediately adjacent to cabling)	Yes
P176	No	No	No	No	No	P087-D1 (immediately adjacent to cabling) P087-D2 (adjacent to cabling)	Yes

Table 1b. Site Investigation Summary and Evaluation of Significance Requirements for the Other Project Components

This table identifies the natural features that have been identified within 120 m of the other Project components, and their distances from Project components. These features include: woodlands, wetlands, and other natural features which may provide significant wildlife habitat. An Evaluation of Significance (EOS) is required where any natural feature is located within 120 m of the Project location.

In the following table, the term 'in' has been attributed to proposed Project components that are located within a natural feature. Project components which are immediately adjacent to a natural feature are identified as being located <1 m from the natural feature. Project components adjacent to a natural feature are identified as being 1 m to 10 m from the natural feature. In most cases, the access roads have been attributed to individual proposed turbines.

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Cabling Route							
Gore Rd: Wheatley Rd to King & Whittle Rd	No	No	No	No	No	P080-H3 (adjacent) P080-H4 (adjacent)	Yes
Davidson Rd: Gray Ln to Middle Ln	No	No	No	No	No	P079-D1 (immediately adjacent) P115-D1 (immediately adjacent) P116-D1 (immediately adjacent) P116-D2 (immediately adjacent) P116-D3 (immediately adjacent)	Yes
Oak Rd: Gray Ln to Pollard Ln	No	No	No	No	No	P080-D1 (immediately adjacent) P076-D2 (immediately adjacent) P076-D3 (immediately adjacent) P074-D1 (immediately adjacent) P113-D1 (immediately adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Middle Line & Valetta Road: Davidson Road to Pollard Line	P114-W1 (immediately adjacent)	No	No	No	Habitat for S-Ranked Bat Species P114-W1 (in)	P115-D2 (immediately adjacent) P114-D1 (in) P076-D3 (immediately adjacent) P074-D2 (immediately adjacent) P124-D2 (immediately adjacent) P124-D1 (immediately adjacent) P078-H3 (adjacent) P124-H1 (adjacent) P115-H3 (adjacent)	Yes
Gleeson Line & Merlin Line: Pollard Line to Morris Line	RB-F3 (in)	No	No	Savannah RB-F3 (in)	Habitat for S-Ranked Bat Species RB-F3 (in)	P114-D2 (immediately adjacent) P072-D3 (immediately adjacent) P125-D1 (immediately adjacent) P126-D2 (immediately adjacent) P127-D1 (immediately adjacent) P161-D1 (in) P127-H1 (immediately adjacent) RB-F3 (in)	
Morris Ln: Pollard Ln to Cooper Rd	No	No	No	No	No	P071-D3 (immediately adjacent) P071-D4 (immediately adjacent) P095-D1 (immediately adjacent) P071-D2 (in) P072-D1 (immediately adjacent) P071-D1 (in) P096-H2 (immediately adjacent) P095-H1 (immediately adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Merlin Rd/6th Line West: Morris Ln to P099	RB-F (adjacent)	No	No	Savannah RB-F (adjacent)	Habitat for S-Ranked Bat Species RB-F (adjacent)	P067-D2 (in) P068-D1 (in) P095-H3 (immediately adjacent) P068-H2 (110 m) P067-H2 (immediately adjacent) P067-H3 (immediately adjacent) RB-F (adjacent)	Yes
Finn Line/Merlin Road: Cooper Road to 8th Line	No	No	No	No	No	P071-D4 (immediately adjacent) P069-D1 (adjacent) P069-D2 (in) P069-D6 (in)	Yes
Port Road/8th Line: Cooper Rd to Merlin Rd	No	No	No	No	No	P070-D2 (immediately adjacent) P069-D3 (immediately adjacent) P069-D5 (immediately adjacent) P069-D4 (in)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
7th Ln W: Merlin Road to Hwy 401	P064-W1 (immediately adjacent)	No	No	No	Habitat for S-Ranked Bat Species P064-W1 (immediately adjacent)	P063-D2 (immediately adjacent) P129-D1 (immediately adjacent) P129-D2 (immediately adjacent) P064-D1 (in) P062-D1 (immediately adjacent) P062-D2 (immediately adjacent) P062-D3 (immediately adjacent) P098-D1 (immediately adjacent) P064-D3 (in) P063-D1 (immediately adjacent) P068-D2 (immediately adjacent) P063-H3 (immediately adjacent) P129-H1 (immediately adjacent) P064-H1 (immediately adjacent) P064-H5 (115 m) P098-H1 (115 m) P064-H2 (immediately adjacent) P068-H1 (immediately adjacent) P098-H2 (immediately adjacent) P121-H1 (immediately adjacent)	Yes
Wellwood Rd/10th Ln: 7th Ln to Bloomfield Rd	RB-A4 (adjacent)	No	No	No	No	P066-D2 (in) P066-D1 (in) P065-D3 (in) P094-D9 (in) P094-D1 (immediately adjacent) P094-D6 (in) P061-D1 (in) P111-D7 (in) P065-H6 (immediately adjacent) P065-H5 (immediately adjacent) P094-H6 (immediately adjacent) P111-H5 (immediately adjacent) RB-A4 (adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
9th Ln: Bloomfield Rd to Charing Cross Rd	No	No	No	No	No	P097-D2 (immediately adjacent) P117-D1 (in) P097-D1 (in) P096-D1 (in) P055-D1 (in) P059-H1 (80 m) P059-H2 (immediately adjacent) P096-H3 (immediately adjacent) P097-H1 (immediately adjacent) P097-H2 (adjacent) P111-H1 (immediately adjacent) P164-H2 (immediately adjacent) P164-H3 (adjacent)	Yes
8th Ln: Dillon Rd to Bloomfield Rd	No	No	No	No	No	P065-D1 (in) P098-D1 (in) P061-D3 (in) P061-H3 (adjacent) P061-H2 (adjacent) P149-H5 (adjacent) P149-H2 (adjacent) P149-H6 (adjacent) P149-H3 (adjacent) P149-H4 (adjacent)	
10th Ln: Bloomfield Rd to Charing Cross Rd	P111-W1 (immediately adjacent)	No	Reptile Hibernacula (immediately adjacent)	No	Habitat for S-Ranked Bat Species P111-W1 (immediately adjacent)	P117-D2 (110 m) P100-D1 (in) P060-D1 (in) P111-D1 (immediately adjacent) P060-H2 (immediately adjacent) P112-H1 (immediately adjacent) P164-H1 (immediately adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Gagner Ln/Lagoon Rd: Charing CX Rd to Rail Bed	P054-W1 (adjacent) P054-W2 (adjacent)	P054-WE1 (55m)	No	No	Habitat for S-Ranked Bat Species P054-W2 (adjacent) P054-WE1 (55m)	P054-D1 (immediately adjacent) P056-D2 (in) P058-D3 (immediately adjacent) P051-H1 (adjacent) P051-H2 (adjacent)	Yes
Lagoon Rd & Horton Ln: Charing Cross Rd to Fargo Rd	P055-W1 (immediately adjacent)	No	No	No	Habitat for S-Ranked Bat Species P055-W1 (immediately adjacent)	P046-D1 (immediately adjacent) P051-D1 (immediately adjacent) P051-D2 (immediately adjacent) P051-D3 (immediately adjacent) P055-D2 (immediately adjacent) P046-D1 (immediately adjacent) P055-D1 (immediately adjacent) P110-D1 (in) P056-D1 (in) P056-D2 (in) P051-H1 (immediately adjacent) P051-H2 (immediately adjacent)	Yes
Fargo Rd: Horton Rd to the Rail Bed	RB-B (adjacent)	No	No	Savannah RB-B (adjacent)	Habitat for S-Ranked Bat Species RB-B (adjacent)	P046-D1 (immediately adjacent) P051-D1 (immediately adjacent) P052-D1 (immediately adjacent) P045-H1 (immediately adjacent) P046-H2 (immediately adjacent) P052-H1 (immediately adjacent) RB-B (adjacent)	Yes
Burk Ln: Mull Rd to Base Rd	No	No	No	No	No	P018-D1 (in) P016-D1 (in) P016-D2 (immediately adjacent) P016-H3 (immediately adjacent) P016-H4 (immediately adjacent) P016-H2 (immediately adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Base Rd: Burk Ln to Rail Bed	P091-W2 (110 m) P091-W3 (35 m)	No	No	No	Habitat for S-Ranked Bat Species P091-W2 (110 m) P091-W3 (35 m)	P016-D1 (in) P019-D2 (immediately adjacent) P091-H1 (immediately adjacent)	Yes
Base Rd/Ridge Ln: Welch Ln to Kent Bridge Rd	P092-W2 (110m) P014-W2 (34m)	P014-WE2 (86m)	No	No	Habitat for S-Ranked Bat Species P092-W2 (110m) Area Sensitive Bird Breeding Habitat P014-W2 (immediately adjacent) P014-WE2 (adjacent)	P102-D1 (in) P152-D1 (60m) P092-H1 (adjacent) P092-H4 (adjacent) P092-H5 (immediately adjacent)	Yes
Welch Ln: P155 to Base Rd	P014-W2 (immediately adjacent)	P014-WE2 (adjacent)	No	No	Habitat for S-Ranked Bat Species P014-W2 (immediately adjacent) P014-WE2 (adjacent) Area Sensitive Bird Breeding Habitat P014-W2 (immediately adjacent) P014-WE2 (adjacent)	P026-D1 (in) SSS-D2 (in) P027-D1 (in) SSS-D1 (in) P019-D1 (in) P155-H1 (immediately adjacent)	Yes
Kent Bridge Rd: Ridge Ln to Front Ln	No	No	No	No	No	P102-D1 (in) P093-D1 (in) P015-H1 (immediately adjacent) P093-H1 (immediately adjacent) P093-H2 (immediately adjacent) P093-H3 (immediately adjacent) P102-H1 (immediately adjacent) P102-H2 (immediately adjacent) P001-H2 (immediately adjacent) P001-H3 (immediately adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Mull Rd: Welch Ln to Brush Ln	P027-W1 (immediately adjacent)	No	No	No	Habitat for S-Ranked Bat Species P027-W1 (immediately adjacent)	SSS-D2 (immediately adjacent) P027-D1 (immediately adjacent) P005-D2 (in) P005-H6 (immediately adjacent) P005-H7 (immediately adjacent) P005-H5 (immediately adjacent) P005-H1 (immediately adjacent)	Yes
Mull Rd: Brush Ln to Sinclair Ln	P139-W1 (immediately adjacent)	No	Bat Maternity Roost P139-W1 (immediately adjacent)	No	Habitat for S-Ranked Bat Species P139-W1 (immediately adjacent)	P005-D1 (immediately adjacent) P009-D2 (immediately adjacent) P139-D2 (immediately adjacent) P005-H3 (immediately adjacent) P005-H4 (immediately adjacent) P009-H5 (immediately adjacent) P009-H3 (immediately adjacent) P008-H2 (immediately adjacent) P139-H2 (immediately adjacent)	Yes
Mull Road/New Scotland Line: Sinclair Line to P171	No	Rondeau Bay North Shore PSW (90m)	Waterfowl Stopover and Staging Area (in)	No	No	<u>P139-D2 (35m)</u> <u>P139-D1 (in)</u> <u>P002-D2 (in)</u> <u>P171-D2 (30m)</u>	Yes
Ed's Ln: Mull Rd to Kent Bridge Rd	P002-W1 (immediately adjacent) P002-W2 (immediately adjacent) P004-W1 (immediately adjacent)	No	Bat Maternity Roost P002-W1 (immediately adjacent) P002-W2 (immediately adjacent) P004-W1 (immediately adjacent)	No	Habitat for S-Ranked Bat Species P002-W2 (immediately adjacent) P004-W1 (immediately adjacent)	P009-D1 (in) P004-D1 (in) P002-D2 (in) P008-H1 (immediately adjacent) P008-H2 (immediately adjacent) P008-H3 (immediately adjacent) P002-H1 (immediately adjacent) P009-H2 (immediately adjacent) P003-H1 (immediately adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Kent Bridge Rd: Ed's Ln to New Scotland Ln	No	No	Waterfowl Stopover and Staging Area (in)	No	No	P002-D1 (immediately adjacent) P106-D2 (in) P105-H3 (immediately adjacent) P105-H4 (immediately adjacent) P118-H1 (immediately adjacent) P106-H3 (immediately adjacent)	Yes
New Scotland Line: Kent Bridge Rd to McKinlay Rd	No	No	Waterfowl Stopover and Staging Area (in)	No	No	P105-D1 (in) P104-D2 (in) P104-H2 (immediately adjacent) P105-H1 (immediately adjacent) P104-H3 (immediately adjacent) P103-H2 (immediately adjacent) P105-H2 (immediately adjacent) P104-H1 (immediately adjacent)	Yes
Cundle Ln: Fargo Rd to P038	CLA-W2 (in)	No	No	No	Habitat for S-Ranked Bat Species CLA-W2 (adjacent)	CLA-D2 (in) CLA-D3 (immediately adjacent)	Yes
Burk Ln: Huffman Rd to P034	P034-W1 (immediately adjacent)	No	No	No	Habitat for S-Ranked Bat Species P034-W1 (immediately adjacent)	P040-D2 (in) P034-D4 (in) P033-D1 (in)	Yes
Burk Ln: Harwich Rd to P031	No	No	No	No	No	P156-D4 (in) P031-H3 (adjacent)	Yes
Harwich Rd: Rail Bed to P026	No	No	No	No	No	P031-D1 (immediately adjacent) P135-D2 (immediately adjacent) P156-D3 (immediately adjacent) P034-H3 (adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Campbell Ln: Mull Rd to Harwich Rd	P029-W1 (immediately adjacent)	No	No	No	Habitat for S-Ranked Bat Species P029-W1 (immediately adjacent) Open Country Bird Breeding Habitat (adjacent)	P026-D1 (adjacent) P029-D1 (adjacent) P030-D1 (adjacent) P028-H3 (adjacent) P028-H4 (adjacent) P028-H5 (adjacent) P028-H6 (adjacent) P029-H1 (adjacent) P029-H2 (adjacent) P029-H3 (adjacent) P030-H1 (adjacent)	Yes
Harwich Rd: Campbell Ln to Stefina Ln	P030-W3 (adjacent) P030-W2 (adjacent)	No	No	No	No	P030-D2 (in) P140-D7 (in) P140-D8 (adjacent)	Yes
Talbot Trail: Communication Rd to Mull Rd	P139-W5 (adjacent) P139-W6 (adjacent) P139-W7 (adjacent) P139-W8 (adjacent) P139-W9 (adjacent)	No	Bat Maternity Roost P139-W5 (adjacent) P139-W6 (adjacent) P139-W7 (adjacent) P139-W8 (adjacent) P139-W9 (adjacent)	No	Habitat for S-Ranked Bat Species P139-W5 (adjacent) P139-W6 (adjacent) P139-W7 (adjacent) P139-W9 (adjacent) Area Sensitive Bird Breeding Habitat P139-W8	P002-D14 (adjacent) P002-D15 (in) P002-D16 (in) P002-D17 (in) P002-D18 (in) P002-H13 (adjacent) P002-H14 (adjacent) P002-H15 (adjacent) P002-H16 (adjacent) P002-H17 (60m)	Yes
Substations							
Railbed Substation	RB-F3 (adjacent)	No	No	Savannah RB-F3 (adjacent)	Habitat for S-Ranked Bat Species RB-F3 (adjacent)	P064-D1 (immediately adjacent) RSS-H1 (36 m) RB-F3 (adjacent)	Yes
Sattern Substation	RB-E2 (immediately adjacent)	No	No	Savannah RB-E2 (immediately adjacent)	Habitat for S-Ranked Bat Species RB-E2 (immediately adjacent)	SSS-D1 (35 m) P020-H1 (35 m) RB-E2 (immediately adjacent)	Yes
Transmission Corridor							

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
RSS to Dillon Rd	RB-F3 (adjacent) RB-A5 (adjacent) P065-W1 (14m) P065-W3 (12m)	No	No	Savannah RB-F3 (adjacent)	Habitat for S-Ranked Bat Species RB-F3 (adjacent) RB-A5 (adjacent) P065-W1 (immediately adjacent) P065-W3 (immediately adjacent)	P064-D1 (immediately adjacent) P064-D2 (in) P065-D1 (in) P065-D2 (in) P067-H1 (immediately adjacent) P064-H3 (adjacent) P066-H1 (immediately adjacent) P066-H2 (immediately adjacent) P064-H2 (immediately adjacent) P065-H2 (immediately adjacent) P065-H3 (immediately adjacent) P066-H3 (immediately adjacent) RB-F3 (adjacent) RB-A5 (adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Dillon Rd to Charing Cross Rd	RB-F2 (adjacent) RB-A4 (adjacent) RB-F1 (adjacent) RB-A3 (adjacent) RB-B4 (adjacent) P117-W1 (adjacent)	No	No	Tallgrass Prairie RB-B4 (adjacent) Savannah RB-B4 (adjacent) RB-F1 (adjacent) RB-F2 (adjacent)	Habitat for S-Ranked Bat Species RB-F2 (adjacent) RB-A4 (adjacent) RB-F1 (adjacent) RB-A3 (adjacent) RB-B4 (adjacent) P117-W1 (immediately adjacent)	P094-D2 (immediately adjacent) P094-D3 (in) P094-D1 (in) P117-D2 (in) P094-D5 (in) P061-D1 (in) P100-D1 (in) P060-D1 (in) P100-D2 (immediately adjacent) P112-D1 (immediately adjacent) P094-H4 (immediately adjacent) P061-H1 (in) P060-H1 (in) P100-H2 (in) P094-H2 (115 m) P094-H3 (immediately adjacent) P100-H5 (in) P100-H3 (adjacent) P060-H6 (15 m) P100-H4 (15 m) P060-H3 (in) RB-F2 (adjacent) RB-A4 (adjacent) RB-F1 (adjacent) RB-A3 (adjacent) RB-B4 (adjacent)	Yes

Project Component	Woodlands	Wetlands	Candidate Significant Wildlife Habitat				EOS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Charing Cross Rd to Huffman Rd	RB-B4 (adjacent) RB-E5 (adjacent) RB-B3 (adjacent) RB-D2 (adjacent) RB-E4 (adjacent) RB-A2 (adjacent) CLA-W2 (14m)	No	Bat Maternity Roost RB-A2 (adjacent)	Tallgrass Prairie RB-B3 (adjacent) RB-B4 (adjacent) Savannah RB-B3 (adjacent) RB-B4 (adjacent) RB-E4 (adjacent)	Habitat for S-Ranked Bat Species RB-B4 (adjacent) RB-E5 (adjacent) RB-B3 (adjacent) RB-D2 (adjacent) RB-E4 (adjacent) RB-A2 (adjacent) CLA-W2 (in) Open Country Bird Breeding Habitat P053-W2 (immediately adjacent)	P056-D1 (in) P053-D2 (in) P053-D3 (in) P039-D1 (110 m) CLA-D2 (in) P053-D1 (in) P040-D1 (in) P041-D1 (in) P058-H2 (in) P040-H2 (in) RB-B4 (adjacent) RB-E5 (adjacent) RB-B3 (adjacent) RB-D2 (adjacent) RB-E4 (adjacent) RB-A2 (adjacent)	Yes
Fargo Rd: Hwy 401 to the Chatham Switching Station	No	No	No	No	No	TRANS-D2 (in) TRANS-H4 (20 m)	Yes
Huffman Rd to SSS	RB-E3 (adjacent) RB-A1 (adjacent) RB-D1 (adjacent) RB-E2 (adjacent) P024-W2 (adjacent)	No	No	Savannah RB-E2 (adjacent) RB-E3 (adjacent)	Habitat for S-Ranked Bat Species RB-E3 (adjacent) RB-A1 (adjacent) RB-D1 (adjacent) RB-E2 (adjacent) P024-W2 (adjacent)	P034-D3 (in) P031-D1 (in) P023-D1 (in) SSS-D2 (in) P034-H3 (immediately adjacent) P024-H2 (in) P031-H1 (immediately adjacent) P031-H2 (immediately adjacent) RB-E3 (adjacent) RB-A1 (adjacent) RB-D1 (adjacent) RB-E2 (adjacent)	Yes

5.0 Evaluation of Significance Methodology

In accordance with the REA regulation, NRSI biologists have completed a comprehensive records review and site investigations to confirm site-specific ecological functions of the Project. The results of these tasks have provided the information required to evaluate the significance of several features within the Project area. NRSI has reviewed all natural features within the Project area and compared the site-specific conditions and results of field investigations to available evaluation criteria to determine the significance of each feature. Criteria for determining Significant Wildlife Habitat (SWH) criteria were derived from OMNR's provincial guidance documents - the Significant Wildlife Habitat Technical Guide (OMNR 2000) and the Draft Significant Wildlife Habitat Ecoregion Criteria Schedules (OMNR 2009a). The methodology and evaluation criteria used to determine significance are outlined in the following sections.

In addition, a summary of the Project components that require an Environmental Impact Statement (EIS), and rationale as to why an EIS is required, is discussed in Section 9.0. The impact assessment of Project components will be detailed in a subsequent document, South Kent Wind Project: Environmental Impact Statement (Hatch 2012), and will be provided to the MNR for review.

5.1 Significant Woodlands

NRSI biologists used modified Ecological Land Classification (ELC) for southern Ontario to identify woodlands within the Project area (Lee et. al. 1998). Through this vegetation mapping technique, fifty-seven (57) woodland communities were confirmed within 120 m of proposed Project components (delineated to dripline).

For each candidate significant woodland, ecological characteristics were compared to the evaluation criteria for significant woodlands, as described in Table 7-2 of the Natural Heritage Assessment Guide (OMNR 2011). These evaluation criteria include four (4) broad categories: woodland size, ecological functions, uncommon characteristics, and economic and social functional values. The general evaluation criteria for significant woodland criteria have been summarized in Table 2. Woodland Evaluation of Significance Criteria below. All of the criteria identified in Table 2 continue to rely, at least in part, on meeting minimum area thresholds.

Table 2. Woodland Evaluation of Significance Crite ria

This table outlines the general evaluation criteria for determining significant woodlands. These criteria are derived from the Natural Heritage Assessment Guide (OMNR 2011).

Evaluation Criteria	Standards of Significance
Woodland Size Criteria	
Woodland Cover	- If woodlands account for less than 5% of the total land use, woodlands 2 ha in size or greater are significant. - The largest woodland in the planning area (or sub-unit) should be considered significant.
Ecological Functions Criteria	
Woodland Interior	- Woodlands with any interior habitat when woodland cover is less than 15% should be significant. - Interior habitat can be initially identified by any forested habitat no closer than 100 m from any woodland edge.
Proximity to Other Woodlands	- Woodlands that may provide ecological benefit to other nearby significant natural features or fish habitat may be considered significant.
Linkages	- Woodlands that provide linkage functions between other significant features within a specified distance (e.g., 120 m) may be considered significant.
Water Protection	- Woodlands may be significant if they are within a sensitive watershed, or in close proximity to other hydrological features, including sensitive headwaters, fish habitat, and groundwater discharge.
Woodland Diversity	- A naturally occurring composition of native forest species that have shown significant decline south and east of the Canadian Shield may be significant. - If high native diversity throughout forested features is noted, a woodland may be significant.
Uncommon Characteristics Criteria	
Woodland Characteristics	- A woodland may be significant if it contains a unique species composition. - A vegetation community with a provincial S-Rank of S1, S2, or S3 may be considered significant. - Woodlands containing habitat for a rare, uncommon, or restricted woodland plant species may be considered significant. - Native woodlands showing characteristics of old woodlands or those with large tree stems may be considered significant.
Economic and Social Functiona	l Values
Woodland Values	- Woodlands providing high productivity and economically valuable products may be considered significant. - Highly valuable, and sustainable, services, such as air-quality improvement, may result in significance. - Woodlands with noted educational, cultural, or historical values may be considered significant.

5.2 Significant Wetlands

Wetlands within the Project area were initially identified through the use of modified ELC for southern Ontario (Lee et. al. 1998), including site specific soil sampling. This vegetation community classification system allows for the assessment of vegetation communities for preliminary delineations of upland, lowland, and wetland habitats among other community types.

Through the site investigation phase of this Project, six (6) wetland communities were identified within 120 m of proposed Project components, including a portion of the Rondeau Bay PSW. As part of the Evaluation of Significance phase, NRSI biologists delineated the boundaries of the five (5) new wetlands using the Ontario Wetland Evaluation System (OWES) criteria. The ecological functions and characteristics of these five (5) wetlands located were assessed using the Wetland Characteristics and Ecological Functions Assessment as described in Appendix C of the Natural Heritage Assessment Guide (OMNR 2010c). According to Appendix C, all of the wetlands that are assessed using this tool must be treated as provincially significant. The evaluation criteria used to assess the five (5) wetlands within 120m of the project location are found in Table 3. Wetland Characteristics and Ecological Functions Assessment Criteria below.

Table 3. Wetland Characteristics and Ecological Fu nctions Assessment Criteria

Characteristic/Ecological Function	OWES Manual Section (south manual)	OWES Name	Field Visit (if possible)	Details
Actual Wetland Size (ha)		SIZE1	NO	- Necessary to understand magnitude of impacts on area affected by project
Wetland Type	1.1.2	WLTYPE	NO	- Assists in understanding whether changes in hydrology will impact wetland function Provides a gauge for the presence of Species at Risk or provincially significant species
Site Type	1.1.3	SITE	NO*	Assists in understanding if changes in hydrology will impact wetland function * Confirmation of isolated and palustrine site types is most readily accomplished through field work
Vegetation Communities	1.2.2	VEG	YES	- Can be used to predict faunal types in order to assess varying impacts - Provides a gauge for the presence of Species at Risk and special features - Can be estimated through ortho-photography if property cannot be accessed
Proximity to Other Wetlands	1.2.4	WPROX	NO	- Provides hydrological connections in order to estimate downstream impacts
Interspersion	1.2.5	INTER	NO	- Can be used to predict faunal types in order to assess varying impacts - Can be estimated once vegetation communities known
Open Water Types	1.2.6	OPWAT	NO	Assists in understanding whether changes in hydrology will impact wetland function - Can be estimated through ortho-photography
Flood Attenuation (Total)	3.1	FLOOD	NO	Assists in understanding whether changes in hydrology will impact wetland function (e.g. isolated wetlands have high flood retention which could be altered due to grading etc…)

Characteristic/Ecological Function	OWES Manual Section (south manual)	OWES Name	Field Visit (if possible)	Details
Water Quality Improvement (Total)	3.2	WQI	YES	Assists in understanding whether changes in hydrology will impact wetland function Provides information to determine whether activities will change components of wetlands water budget Must be assessed on site unless property cannot be accessed (some sub-components can be assessed using desktop procedures)
Shoreline Erosion Control	3.4	SEC	NO	Relevant for shoreline vegetation removal Activities that change topography and slope can change vegetation that grows in the wetland and affect erosion
Groundwater Recharge (Total)	3.5	TGR	YES	Assists in understanding whether changes in hydrology will impact wetland function Particularly important to understanding effects of alterations to topography and water flow Must be assessed on site unless property cannot be accessed
Species Rarity (Total)	4.1.2	RTOT2	YES	Must be assessed on site unless property cannot be accessed Where property cannot be accessed, applicants should use information obtained from district/NHIC during records review
Significant Features and Habitats (Total)	4.2	SGFT	YES	- Essential to determining whether fundamental changes to habitat could occur - Must be assessed on site unless property cannot be accessed Where property cannot be accessed, applicants should use information obtained from district/NHIC during records review
Fish Habitat (Total)	4.2.6	FISHAB	YES	Must be assessed on site unless property cannot be accessed Provides understanding necessary to devise strategies for ensuring that discharges and mean concentration of sediments do not affect fish habitat Provides understanding of water temperature which could be affected

5.3 Significant Valleylands

Site-specific field investigations, in conjunction with records review and agency consultation, have been used to identify any potential candidate significant valleylands within the Project area.

Site investigations at the Project have not identified any candidate significant valleylands within 120 m of proposed Project components. Watercourses within the Project Area were generally characterized by shallow agricultural drains along the edges of fields or roads. Occasional natural channels were found within the Project Area; however these features remained shallow in structure. As such, NRSI biologists were not required to compare site-specific characteristics to the evaluation criteria outlined in the Natural Heritage Assessment Guide (OMNR 2011). These criteria, used to evaluate the significance of valleylands, include a review of landform-related functions, ecological functions, and restored ecological functions.

5.4 Significant Wildlife Habitat

For the review of candidate significant wildlife habitat, NRSI biologists have consulted the Significant Wildlife Habitat Technical Guide (OMNR 2000) and the subsequent Significant Wildlife Habitat Ecoregion Criteria Schedules for Ecoregion 7E addendum (OMNR 2009a). These documents identify a wide variety of candidate significant wildlife habitat and criteria used to evaluate their respective significance. Evaluation criteria have been separated into the four (4) broad groups of significant wildlife habitat: seasonal concentration areas, rare vegetation communities and specialized wildlife habitat, habitats of species of conservation concern, and animal movement corridors. Each of these categories of wildlife habitat is described in more detail in the sub-sections below.

5.4.1 Seasonal Concentration Areas

Site-specific wildlife surveys, including seasonal studies of birds, bats, and other wildlife, in conjunction with vegetation mapping have been compared with the criteria outlined in the documents mentioned above, to evaluate the significance of seasonal concentration areas within the Project area.

Forty-four (44) candidate seasonal concentration areas have been identified within the Project area. Nineteen (19) of these candidate seasonal concentration areas have been identified as waterfowl stopover and staging area, eleven (11) as candidate reptile hibernacula, and fourteen (14) as candidate bat maternity colonies. The general evaluation criteria for these candidate seasonal concentration areas are outlined in Table 4 below.

Table 4. Seasonal Concentration Area Evaluation of Significance Criteria

This table outlines the evaluation criteria for the seasonal concentration areas found within the Project area. These criteria are derived from the Significant Wildlife Habitat Technical Guide (OMNR 2000) and SWH Ecoregion Criteria Schedules addendum (OMNR 2009a).

Concentration Area	Standards of Significance
Waterfowl Stopover and Staging Areas	- Fields/meadows with seasonal open water and/or residual grain - Aggregation of more than 100 identified individuals.
Reptile Hibernacula	- Presence of at least five (5) individuals or two (2) or more snake species in, or near, a potential hibernacula in spring or fall. - Confirmation of a Special Concern species
Bat Maternity Colony	- Maternity colonies include at least twenty (20) tricolored bats (Perimyotis subflavus) or northern long-eared bats (Myotis septentrionalis), thirty (30) big brown bats (Eptesicus fuscus), fifty (50) little brown bats (Myotis lucifuga), or ten (10) adult, female, silver-haired bats (Lasionycteris noctivagans). - Due to the difficulty of identifying maternity colonies, NRSI also used results of nearby bat surveys in similar habitat types, where deemed appropriate, to identify potentially significant habitats.

In addition, specific waterfowl and reptile surveys were conducted in support of the evaluation of significance phase of this Project. Detailed survey methodology is described below.

<u>Waterfowl Surveys</u>

Specific waterfowl surveys were conducted to supplement previously collected waterfowl data that was provided in the NHA reports submitted in 2010. This information was used to evaluate the significance of waterfowl stopover and staging habitats within the Project area. These surveys targeted the peak movement period of waterfowl, and were conducted from March 17 – 25 along the north shore of Rondeau Bay. These surveys consisted of a series (3 each) of dawn and dusk point counts that were 30 minutes each in duration. Dawn point counts occurred on March 18th, 22nd and 25th, and were timed so that the first point count of each day began immediately after sunrise. Dusk point counts occurred on March 17th, 21st and 24th, and were timed so that the last point count of the day ended approximately at sunset. Two (2) observers recorded any birds that could be seen and/or heard from the point count location. Recorded observation information included bird species, time of observation, number of birds, behavior (i.e. foraging, perched, etc.), number of passes (if bird was flying), height, flight direction, distance and direction from observers. Other data that was recorded includes air temperature, cloud cover, precipitation, wind speed and direction, cloud height, visibility and general habitat characteristics. The point count locations are shown on Figure 2.

Surveys also included driving transects surrounding the Project locations closest to Rondeau Bay. These surveys were conducted on March 17th, 21st and 24th. Two (2) observers recorded any birds that could be seen from the truck while driving at a very slow speed. All of the observation information for the transect surveys was the same as what was recorded during the point counts surveys. The driving transect locations are also shown on Figure 2.

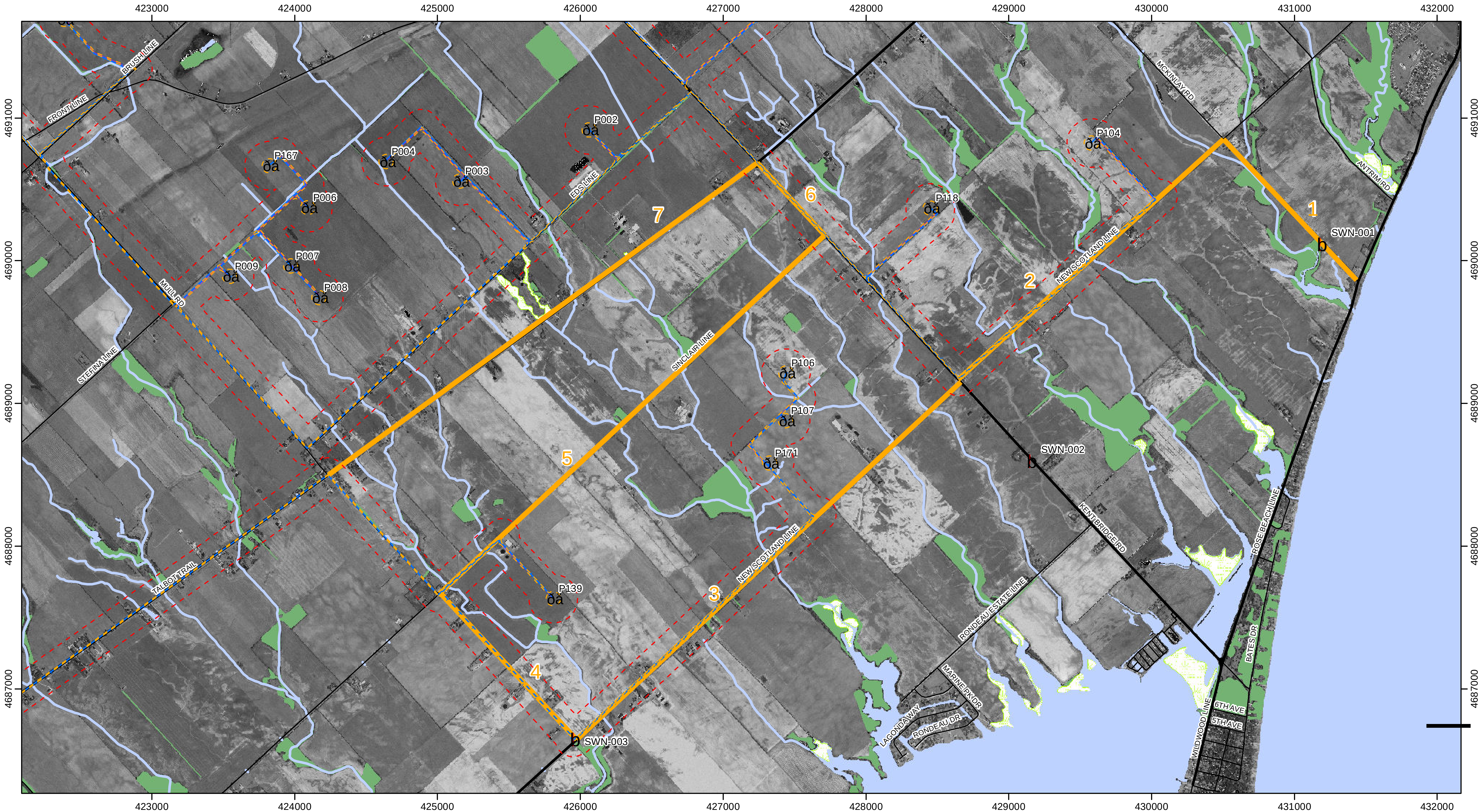

Figure 2

South Kent Wind Project

Waterfowl Survey Locations

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

0 0.15 0.3 0.6 km

April 23, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:25,000 (at 11x17")

Legend

- Project Area (April, 2012)
- Constructible Area
- Proposed Turbine (L020)
- Substation
- Cabling
- Access Road
- Dawn/Dusk Point Count (SWN)
- Driving Transect Route
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Waterbody
- Wetland Area
- Wooded Area

Path: X:\1184_ChathamKentWF\NRSI_1184_Fig2_WaterfowlSurveyLocations_25K_2012_04_23_SWM.mxd

Reptile Surveys

NRSI also conducted specific inventories of reptile species within the Project area. This information was used to evaluate the significance of herpetofaunal habitats that were identified within the Project area during the site investigation. Specific survey methodology has been described in detail below.

Reptile surveys targeted candidate snake hibernacula and turtle nesting and over-wintering habitat that were identified as being present within 120 m of the Project location, during the site investigation phase of this Project. Hibernacula searches, consisting of presence/absence surveys and area searches were conducted by two (2) staff on 4 warm days in early to mid-May when several species were expected to be readily visible basking after emergence. The immediate vicinity of potential hibernacula sites was searched for the emergence, or basking, of turtles and snakes. Overwintering areas were also identified by searching for congregations of turtles on warm, sunny days during the spring (April). Driving transects were used to establish presence of reptile species and identify any other potential movement corridors across local roads. Snakes are likely to be encountered in sunny but cool weather when they frequently bask on roads, particularly paved roads, which are warmer than the surrounding habitat.

5.4.2 Rare Vegetation Communities and Specialized Wildlife Habitat

Rare vegetation communities, including savannah and tallgrass prairie, have been compared with the evaluation criteria identified in the Significant Wildlife Habitat Technical Guide (OMNR 2000,) and its addendum, Draft Significant Wildlife Habitat Ecoregion Criteria Schedules (OMNR 2009a). The criteria in these documents include references to size, age, and species composition recommended to represent a rare vegetation community. Five (5) rare vegetation communities were identified within the Project area in the form of tallgrass prairie (2) and savannah habitats (3). The general criteria for evaluating these rare vegetation communities are found in Table 5. Rare Vegetation Community Evaluation of Significance Criteria.

Table 5. Rare Vegetation Community Evaluation of Significance Criteria

This table outlines the general evaluation criteria for the rare vegetation communities found within the Project area. These criteria are derived from the Significant Wildlife Habitat Technical Guide (OMNR 2000) and SWH Ecoregion Criteria Schedules addendum (OMNR 2009a).

Rare Vegetation Community	Standards of Significance
Savannah	- Site must be restored or a natural site (remnant sites such as railway right of ways not to be considered significant). - Site must not be dominated by exotic or introduced species. - One or more of the savannah indicator species listed in Appendix N of the SWHTG should be present.
Tallgrass Prairie	- Site must be restored or a natural site (remnant sites such as railway right of ways not to be considered significant). - Site must not be dominated by exotic or introduced species. - One or more of the tallgrass prairie indicator species listed in Appendix N of the SWHTG should be present.

Specialized wildlife habitat is also covered by the same documents identified above, and can include a variety of habitats that are required for the long-term survival of certain species, or species groups. Three (3) specialized wildlife habitats have been identified within the Project area, all in the form of amphibian breeding habitats. The general evaluation criteria used in the evaluation of significance of these candidate features are outlined in Table 6. Specialized Wildlife Habitat Evaluation of Significance Criteria below.

Table 6. Specialized Wildlife Habitat Evaluation of Significance Criteria

This table outlines the general evaluation criteria for candidate specialized wildlife habitats found within the Project area. These criteria are derived from the Significant Wildlife Habitat Technical Guide (OMNR 2000) and SWH Ecoregion Criteria Schedules addendum (OMNR 2009a).

Specialized Wildlife Habitat	Standards of Significance
Amphibian Breeding Habitat (Woodland)	- Presence of a wetland, lake or pond within or adjacent (within 120m) to a woodland (no minimum size) - Presence of breeding population of 1 or more of the identified species with at least 20 individuals (adults, juveniles, eggs/larval masses)

In addition, NRSI also conducted specific inventories of amphibian species within the Project area. This information was used to evaluate the significance of herpetofaunal habitats that were identified within the Project area during the site investigation. Specific survey methodology has been described in detail below.

Amphibian surveys were conducted at candidate amphibian breeding habitats that were identified within 120 m of the Project location. Surveys consisted of presence/absence surveys and habitat searches for frogs, toads and salamanders during early to mid-May. In addition to looking for adult amphibians, biologists also looked for other evidence of amphibian breeding, including egg mass surveys, within identified woodland ponds.

5.4.3 Habitats of Species of Conservation Concern

Species of conservation concern include any species that has been designated a provincial species of Special Concern or any species assigned a provincial S-Rank of S1, S2, or S3 (Critically Imperiled, Imperiled, and Vulnerable, respectively). Habitats of species of conservation concern do not include habitats of provincially Endangered or Threatened species, which are addressed in a separate Approval and Permitting Requirements Document to satisfy the requirements of the Endangered Species Act (2007).

Habitats for species of conservation concern can include specific habitat associations, such as marsh breeding bird habitat or open country breeding bird habitat, but also include preferred habitats for any species (or community) of conservation concern with the Project area. Preferred habitats for species of conservation concern identified within the Project have been used to evaluate any candidate SWH with Section 7.0 of this report.

Ten (10) candidate significant habitats of species of conservation concern associated with area sensitive bird breeding habitat (7) and open country bird breeding habitat (3) have been identified within the Project area. The criteria used to evaluate these features are located in the Significant Wildlife Habitat Technical Guide (OMNR 2000), including Appendix Q of the guide, as well as the SWH Ecoregion Criteria Schedules addendum (OMNR 2009a). The general evaluation criteria for these habitats are outlined in Table 7. Habitats of Species of Conservation Concern Evaluation of Significance Criteria.

Table 7. Habitats of Species of Conservation Conce rn Evaluation of Significance Criteria

Habitat of Species of Conservation Concern	Standards of Significance
Area Sensitive Bird Breeding Habitat	- All mature (>60 years old) natural forest (non-plantation) stands 10 ha or greater in size assuming 100 m buffer at edge of forest. - Presence of nesting or breeding pairs of 3 or more of the listed wildlife species (yellow-bellied sapsucker (Sphyrapicus varius), red-breasted nuthatch (Sitta canadensis), veery (Catharus fuscescens), blue-headed vireo (Vireo solitarius), northern parula (Parula americana), black-throated green warbler (Dendroica virens), blackburnian warbler (Dendroica fusca), black-throated blue warbler (Dendroica caerulescens), ovenbird (Seiurus aurocapillus), scarlet tanager (Piranga olivacea), winter wren (Troglodytes troglodytes), Canada warbler (Wilsonia canadensis), pileated woodpecker (Dryocopus pileatus), cerulean warbler (Dendroica cerulea)) - Confirmation of cerulean warblers breeding
Open Country Bird Breeding Habitat	- Grassland areas (natural or cultural fields and meadows) greater than 30ha in size, not Class 1 or Class 2 agricultural lands, with no row-cropping in the last 5 years. - Abandoned field, mature hayfields, or pastures at least 5 years old, and used by grassland bird species which are sensitive to disturbance. - Presence of breeding individuals of 2 or more indicator species (grasshopper sparrow (Ammodramus savannarum), vesper sparrow (Pooecetes gramineus), or upland sandpiper (Bartramia longicauda), in addition to at least 1 common species (eastern kingbird (Tyrannus tyrannus), eastern meadowlark (Sturnella magna), northern harrier (Circus cyaneus), American kestrel (Falco sparverius). - Confirmation of short-eared owl (Asio flammeus) breeding within any field

5.4.4 Animal Movement Corridors

Animal movement corridors are typically considered linear features that connect two (2) or more significant, or otherwise ecologically important, habitats. These features are important for several reasons, including promoting genetic flow, protection from predators, and connectivity to habitats required for breeding, foraging, and/or hibernating.

The significance of animal movement corridors has been evaluated using Appendix Q of the SWHTG (OMNR 2000) and subsequent Ecoregion Criteria Schedules addendum (OMNR 2009a). Corridors linking the most significant features also represent the most significant corridors. The dimensions of the corridor, including length and width, also present important considerations for determination of significance. Wider and shorter corridors are often more readily used by a variety of wildlife species, with the least disturbances. Other considerations include target species within the corridors, continuity of the corridor, and general habitat structure and corridor composition (OMNR 2000).

Significant animal movement corridors are typically identified by MNR or the planning authority based on documented evidence of a wildlife species identified within the Ecoregion Criteria Schedules addendum (OMNR 2009a) using a distinct passageway or relying on well-defined natural features for movements between habitats required by the species to complete its life cycle (OMNR 2009a).

NRSI biologists have identified all linear features, including fencerows, drainage corridors, and the vegetation associated with the railway corridor, as candidate significant animal movement corridors. A total of four hundred twenty-seven (427) candidate significant animal movement corridors have been identified within the Project area.

5.5 Evaluation of Significance Information

Table 8 below provides the staff names, survey dates, and weather conditions for each evaluation of significance field survey conducted by NRSI. Refer to Section 3.0 Staff Roles for the qualifications of each NRSI Biologist.

Table 8. Evaluation of Significance Field Survey Details Summary

Staff	Evaluation of Significance Survey Types	Date	Time (24 hrs)	Duration (hrs)	Weather Conditions		
					Temp (℃)	Beaufort Wind	Cloud Cover (%)
Nathan Miller & Sophie Gibbs	Waterfowl Surveys	17-Mar-11	0800–1930	2.5	12	2	85
		18-Mar-11	0800-0930	1.5	10	4	95
Katherine St. James	Waterfowl Surveys	21-Mar-11	1603-1720	2.5	11	4	100
		22-Mar-11	0730-0930	2	3	4	100
Patrick Deacon & Nathan Miller	Waterfowl Surveys	24-Mar-11	1620-1920	3	-2	3	80
		25-Mar-11	0800-0930	1.5	-3	1	10
Nathan Miller	Amphibian and	02-May-11	1245-	2.75	15	2	70

Staff	Evaluation of Significance Survey Types	Date	Time (24 hrs)	Duration (hrs)	Weather Conditions		
					Temp (℃)	Beaufort Wind	Cloud Cover (%)
& Charlotte Moore	Reptile Surveys		1530				
		03-May-11	0830-1130	3	7	1	100
Tara Lessard & Patrick Deacon	Amphibian and Reptile Surveys	11-May-11	1300-1800	5	21	2	70
Patrick Deacon	Amphibian and Reptile Surveys	03-Jun-11	1000-1700	7	21	2	30
Total		10		30.75			

6.0 Evaluation of Natural Feature Significance

In accordance with the REA regulation, the presence of significant natural features within the Project area has been reviewed by NRSI biologists. NRSI has used the South Kent Wind Project: Records Review Report (summarized in Section 4.0, NRSI 2012a) and South Kent Wind Project: Site Investigation Report (summarized in Section 5.0, NRSI 2012b) to evaluate the environmental significance of each of the candidate significant natural features identified within the Project area. Additional survey work was completed to evaluate for species presence, abundance and diversity at candidate significant wildlife habitats. The Evaluation of Significance has been conducted using evaluation criteria outlined in provincial guidance documents, including the Natural Heritage Assessment Guide (OMNR 2011) and Significant Wildlife Habitat Technical Guide (SWHTG) (OMNR 2000) and as outlined in Section 6.0.

Mapping of the features considered significant is provided within Appendix I and II and within Figures 3-1 to 3-9. This mapping does not include those features that have not been confirmed as significant. For mapping of all candidate significant natural features, please refer to the South Kent Site Investigation report.

6.1 Areas of Natural and Scientific Interest

No ANSIs were identified within 120 m of proposed Project components during the records review phase of the Project.

6.2 Significant Woodlands

NRSI biologists have identified a total of fifty-seven (57) woodlands within the Project. These habitats represent a wide range of community types, identified in more detail in the South Kent Wind Project: Site Investigation Report (NRSI 2012b), and range in size from <1 ha to 59 ha in size. The characteristics of each woodland have been compared to the evaluation criteria outlined in the Natural Heritage Assessment Guide (OMNR 2011), including woodland size, ecological functions, and uncommon characteristics. The evaluation of each feature and its proximity to project components is described in more detail below. A summary of the evaluation of woodland significance is summarized in Table 9.

P001-W1

This 15.8 ha deciduous woodland is located in the eastern end of the Project area. This woodland is considered a significant woodland in the Community of Howard Township (Chatham-Kent 2010), and meets significance criteria based on woodland size (>2 ha). This wooded feature has no interior habitat and limited connectivity to other significant features; however it is closely associated with a potential man-made drainage feature and narrow white elm (Ulmus americana) swamp in the north end of this feature. This wetland, however, is not located within 120 m of the Project location. Based on evaluation criteria of woodland size and ecological function, NRSI recommends this woodland be considered significant. P001-W1 is located within 54 m of turbine no. P001. As such, an EIS is required for the Project components which are proposed within 120 m of this woodland.

P002-W1

This small, 1.4 ha, coniferous plantation is dominated by young white pine (Pinus strobus) and red pine (Pinus resinosa), with groundcover dominated by smooth brome (Bromus inermis ssp. Inermis) and garlic mustard (Alliaria petiolata). This habitat follows, and provides limited cover, to an aquatic feature with direct connectivity with Rondeau Bay. Although this community is not considered significant based on size alone, the ecological benefits provided by the association with the nearby watercourse include water protection and linkage habitat for several wildlife species found in Rondeau Bay. As a result, NRSI recommends that this community be considered significant based on ecological function. P002-W1 is located immediately adjacent to a section of the cabling route along Ed’s Line, from Mull Road to Kent Bridge Road. An EIS is required for these Project components which occur within 120 m of this woodland.

P002-W2

This lowland forest community is dominated by immature white elm and green ash (Fraxinus pennsylvanica), with groundcover dominated by reed canary grass (Phalaris arundinacea) and Canada goldenrod (Solidago canadensis). This community is connected to P002-W1 and follows the same aquatic feature that provides direct connectivity with Rondeau Bay. Although this community is not considered significant based on its 1 ha size alone, the ecological benefits provided by the association with the nearby watercourse include water protection and linkage habitat for several wildlife species found in Rondeau Bay. As a result, NRSI recommends that this community be considered significant based on ecological function. P002-W2 is located immediately adjacent to a section of the cabling route along Ed’s Line, from Mull Road to Kent Bridge Road. An EIS is required for these Project components which are proposed within 120 m of this woodland.

P004-W1

This young woodland (one which “has not yet undergone a series of natural thinnings and replacements”, Lee et al. 1998) is located immediately south of Ed’s Line and provides direct connectivity with Rondeau Bay. The majority of the 7.8 ha woodland area is dominated by immature white ash (Fraxinus americana) and hawthorn sp. (Crataegus sp.), but the area also includes a meadow community that is dominated by mixed forbs and graminoids. Based on the relatively large size and ecological function of this natural community, NRSI recommends that this woodland be considered significant. P004-W1 is located immediately adjacent to a section of the cabling route along Ed's Line, from Mull Road to Kent Bridge Road. An EIS is required for these Project components which are proposed within 120 m of this woodland.

P011-W1

NRSI biologists identified this regenerating community dominated by white ash, balsam poplar (Populus balsamifera ssp. balsamifera), and staghorn sumac (Rhus hirta). This linear community follows the abandoned railway just north of the proposed location of turbine no. P011. This community is large in size, 2.1 ha, and provides linkage function in conjunction with other habitats along the railway. Based on the moderate size and ecological function of this community, NRSI recommends it be considered significant. P011-W1 is crossed by the access road, and cabling associated with proposed turbine no. P012. An EIS is required for the Project components which are proposed within 120 m of this woodland.

P014-W2

This large deciduous forest is dominated by Freeman's maple (Acer X freemanii) and while elm. This community is highly disturbed from human and agricultural activities, including debris and cattle grazing. As a result of the grazing activities, very little habitat complexity was found in the lower vegetation layers of this community. Despite the high disturbances, the large size of this community (13.7 ha) provides low quality interior habitat, and is recommended to be considered a significant woodland. Based on the species composition, a wetland with an open water pond inclusion have also been identified within a portion of this forest community (P014-WE2). This wetland habitat is within 120 m of the Project location. P014-W2 is located immediately adjacent to a section of the cabling route along Welch Line, from turbine no. P155 to Base Road. An EIS is required for these Project components which are proposed within 120 m of this woodland.

P017-W1

This woodland is small (0.9 ha) in size and in close proximity to Highway 401. Site investigations of this feature confirmed high disturbance within this community, with indications of vegetation and soil removal, and a high density of non-native species. This wooded habitat does not meet the recommended woodland size criteria, and provides little ecological function. A site investigation of this natural feature confirmed the presence of several large trees, fulfilling the uncommon characteristic criteria of 10 or more trees/ha greater than 50 cm diameter at breast height (dbh). These large trees generally represent fast growing trees, specifically eastern cottonwood (Populus deltoides), but are not expected to indicate the presence of an old-growth woodland. Despite the presence of several large trees, NRSI recommends that this not be considered a significant woodland as a result of not meeting a recommended minimum size threshold of 2 ha as per the 'Woodland Size Criteria'. As such, an EIS is not required for Project components proposed within 120 m of this woodland.

P022-W1

This natural feature is composed of two deciduous forests with direct connectivity through a very short linear hedgerow feature. As a result, NRSI biologists have included both woodlands and the linear feature as a single polygon unit. These habitats are dominated by shagbark hickory (Carya ovata var. ovata), bur oak, and silver maple. The western of the two woodlands is individually large enough to provide a small amount of interior habitat that is at least 100 m from any forest edge. As a result of the large size of this community (13.6 ha), small amount of interior habitat, and some connectivity to other nearby features, NRSI recommends that this feature be considered significant. P022-W1 is crossed by the cabling associated with turbine no. P022. As such, an EIS is required for the Project components which occur within 120 m of this woodland.

P024-W1
This mid-sized woodland is relatively young in age, dominated by white elm and shagbark hickory. This woodland is considered significant within the Community of Harwich Township (Chatham-Kent 2010), and is located west of where the access road of turbine nos. P090 and P024 meets Knights Line. Although moderately sized, this community does not contain any interior habitat, but is closely associated with a narrow watercourse that follows the eastern edge of this community. Some connectivity along a vegetated watercourse, is present with a considerably larger wooded habitat found approximately 240 m south of this community, beyond a road and abandoned railway corridor. Based on the size of this community (8.1 ha), and some ecological benefit, NRSI recommends that this woodland be considered significant. P024-W1 is located within 30 m of the access road and cabling associated with turbine no. P156. An EIS is required for the Project components which are proposed within 120 m of this woodland.

P024-W2
This young forest community is dominated by bur oak, American basswood (Tilia americana), and silver maple in the canopy, with abundant trees up to 24 cm dbh and occasional snag habitat. This community is located immediately south of the railway and has connectivity to other candidate significant habitats directly along the vegetated railway corridor. This large 55.4 ha woodland has interior habitat, and connectivity to other nearby significant woodlands. As a result, NRSI recommends that this woodland be considered significant. P024-W2 is located within 78 m of turbine no. P155. It is also adjacent to a section of the transmission corridor from Huffman Road to the Sattern Substation. As such, an EIS is required for these Project components which are proposed within 120 m of this woodland.

P027-W1
This community is located immediately east of Mull Road, along an area proposed for roadside, above-ground cabling, and is dominated by green ash, white elm, and eastern cottonwood, within the relatively open canopy. This community is relatively large, 16.4 ha, and contains an area of goldenrod meadow inclusion within the community boundaries. An abandoned railway is located immediately north of this community, and is expected to provide linkage habitat to other potentially significant natural features. NRSI recommends that this community be considered a significant woodland as a result of the large size, direct connectivity to other features, and habitat diversity within the community. P027-W1 is located immediately adjacent to a section of the cabling route along Mull Road, from Welch Line to Brush Line. An EIS is required for these Project components which are proposed within 120 m of this woodland.

P029-W1
This small (2.74ha) community is located immediately adjacent to a section of the transmission corridor on Campbell Line from Mull Road to Harwich Road. This mature community is dominated by sugar maple, bur oak, shagbark hickory, and white elm in both the canopy and sub-canopy. NRSI recommends that this community be considered

a significant woodland based on its size alone. An EIS is required for these Project components which are proposed within 120 m of this woodland.

P030-W2

This small (2.2ha) community is located adjacent to a section of the transmission corridor on Harwich Road from Campbell Line to Stefina Line. This mature forest community is dominated by eastern cottonwood in the super-canopy, with cottonwood, Freeman's maple and white willow in the canopy, cottonwood, mulberry sp., Freeman's maple and white elm in the sub-canopy. NRSI recommends that this community be considered significant woodland based on its size alone. An EIS is required for Project components which are proposed within 120 m of this woodland.

P030-W3

This very small (0.43ha), mid-age plantation is located adjacent to a section of the transmission corridor on Harwich Road from Campbell Line to Stefina Line. It is dominated by silver maple, black walnut, white spruce and Freeman's maple in the canopy, and similar species are present in the sub-canopy. This woodland contains no interior habitat, connectivity to other habitats, or uncommon characteristics, it is small in size, and as a result, NRSI recommends that this woodland be considered not significant. An EIS is not required for Project components proposed within 120 m of this woodland.

P033-W1

This small, 1.4 ha, mature forest is dominated by sugar maple with shagbark hickory and American beech. It is fragmented and contains occasional large sugar maple trees greater than 50 cm dbh in size. This woodland is not significant based on size alone, but is found immediately adjacent to a watercourse designated as containing sensitive fish species (DFO 2010). As a result, NRSI recommends that this woodland satisfies the criteria of water protection, and should be considered a significant woodland. P033-W1 is located adjacent to the proposed access road and cabling associated with turbine no. P033. An EIS is required for the Project components which are proposed within 120 m of this woodland.

P034-W1

This community is 4.0 ha in size, and located east of turbine no. P034, within 120 m of proposed cabling along Harwich Road. This community provides vegetative cover along small segment of a watercourse that has the potential to contain sensitive aquatic species, and is therefore expected to provide water protection to this aquatic feature. A wetland community has also been identified within this woodland; however, it is not within 120 m of the Project location. Based on the size of this woodland community and ecological benefit to the nearby watercourse, NRSI recommends that this feature be considered significant. P034-W1 is located adjacent to a section of the cabling route along Burk Line, from Huffman Road to P034. An EIS is required for these Project components which are proposed within 120 m of this woodland.

P042-W1
This wooded community is large in size (13.7 ha), and dominated by white elm, silver maple, and bur oak in the canopy and sub-canopy, with abundant green ash snags. The understory is densely vegetated with regenerating white elm, green ash, and shagbark hickory saplings. A wetland has also been identified within this woodland; however, it is not within 120 m of the Project location. Based on this woodland's large size, and its close proximity to linkage corridors and other significant woodlands, NRSI recommends that this feature be considered significant. P042-W1 is located within 112 m of the access road and turbine no. P109. An EIS is required for the Project components which are proposed within 120 m of this woodland.

P053-W3
This wooded community is large in size (11.1 ha), and dominated by young white elm, bur oak, and eastern cottonwood, which combine to provide a sparse canopy. Despite some limited connectivity to other natural features through sparsely vegetated drains and fencerows, NRSI recommends that this feature be considered significant on size alone. P053-W3 is located within 52 m of the proposed turbine no. P053. As such, an EIS is required for the Project components which are proposed within 120 m of this woodland.

P053-W4
This mid-age forest community is dominated by red maple (Acer rubrum), shagbark hickory and white ash. Gray dogwood and red osier dogwood are occasionally found in the understory, with groundcover of clover and wild strawberry. It is moderate in size (4.95 ha) and is connected to a large woodland, P053-W3. As a result, NRSI recommends that this community be considered significant. P053-W4 is located within 33 m from the proposed access road and cabling associated with turbine no. P053. An EIS is required for the Project components which are proposed within 120 m of this woodland.

P054-W1
This 13.22ha, mature forest community is dominated by sugar maple, American beech, bur oak and Freeman's maple in the canopy and sub-canopy. P054-W1 is moderate in size, and as a result NRSI recommends that this community be considered significant. P054-W1 is located adjacent to a portion of cabling along Gagner Line and Lagoon Road. An EIS is required for the Project components which are proposed within 120 m of this woodland.

P054-W2
This small (1.69ha), mature forest community is dominated by sugar maple, white ash, black cherry and American beech in the canopy. The sub-canopy also contains white elm. This woodland also contains an inclusion of wetland habitat. P054-W2 is of a small size, although it likely provides water protection to the wetland habitat within it. As a result NRSI recommends that this community be considered significant. P054-W2 is located adjacent to a portion of cabling along Gagner Line and Lagoon Road. An EIS is required for the Project components which are proposed within 120 m of this woodland.

P055-W1
This moderately sized (5.1 ha) woodland is located northwest of the intersection of Lagoon Road and Horton Line. This community contains a high diversity of tree species,

and is dominated by sugar maple, American basswood, and American beech. This community has no connectivity to other natural features, and provides little other ecological function. No uncommon characteristics were noted within this feature. As a result of the moderate size of this feature, NRSI recommends that this community be considered significant. P055-W1 is located adjacent to a section of the cabling route along Lagoon Road/Horton Line, from Charing Cross Road to Fargo Road. As such, an EIS is required for these Project components which are proposed within 120 m of this woodland.

P064-W1
This small, 0.2 ha, community is an exotic deciduous forest dominated by silver poplar (Populus alba), with little noted ecological function during the site investigation. Due to the very small size of this community and no other noted ecological functions, NRSI recommends that this community be considered not significant. An EIS is not required for Project components proposed within 120 m of this woodland.

P065-W1
This woodland is small in size (2 ha) and is dominated by young Manitoba maple (Acer negundo) and white elm. Non-native species are present throughout the ground cover layer, dominated by garlic mustard. This woodland follows an existing watercourse (P065-D1) and meets the 2 ha size threshold. As such, NRSI recommends this feature be considered a significant woodland. P065-W1 is located within 76 m to the southwest of the proposed turbine no. P065. It is also immediately adjacent to a section of the transmission corridor from the Railbed Substation to Dillon Road. An EIS is required for the Project components proposed within 120 m of this woodland.

P065-W2
This mid-aged forest is approximately 3.3 ha in size, dominated by bur oak and shagbark hickory. Ground cover within this community is dominated by the non-native and invasive garlic mustard. This natural feature is expected to provide ecological benefit to a naturally meandering watercourse that is present within this natural community. As a result of the size of the woodland and the expected benefit to the watercourse, NRSI recommends this feature be considered a significant woodland. P065-W2 is located within 84 m to the east of the proposed turbine no. P065. An EIS is required for the Project components proposed within 120 m of this woodland.

P065-W3
This 2.5 ha forest community is dominated by bur oak, white elm, and silver maple in the canopy, with shagbark hickory in the sub-canopy. This mid-aged forest includes occasional snags in the 25 to 50 cm dbh range, and also provides cover to a section of P065-D1. This woodland also contains a wetland inclusion; however, it is located more than 120 m from the Project location. Based on the size of this community and connectivity through the immediately adjacent railway corridor and drain, NRSI recommends that this community be considered significant. P065-W3 is located immediately adjacent to a section of the transmission corridor from the Railbed Substation to Dillon Road. An EIS is required for the Project components proposed within 120 m of this woodland.

P077-W1

This relatively open woodland is 2.5 ha in size, dominated by a mix of bur oak, white elm, and shagbark hickory, and has been identified as a significant woodland by municipal mapping for the Community of Tilbury East Township (Chatham-Kent 2010). Green ash saplings are present within the ground cover layer of avens sp. (Geum sp.) and poison ivy (Toxicodendron radicans ssp. negundo). A cleared open area, dominated by Canada goldenrod, is located within the limits of this natural feature. This woodland has limited connectivity to other candidate significant features and provides limited ecological function to the surrounding natural environment. Based on size alone, NRSI recommends that this natural feature be considered significant. P077-W1 is proposed to be crossed by the proposed access road and cabling associated with turbine no. P077. It is also 90 m from proposed turbine no. P077. An EIS is required for the Project components proposed within 120 m of this woodland.

P082-W1

This small, 2.1 ha, woodland is found within 120 m of the access road associated with turbine no. P082. It is dominated by red oak and sugar maple, with occasional white elm, bur oak, and shagbark hickory. This feature is a mid-aged community with a few mature trees greater than 50 cm dbh. This woodland is also located along the western edge of an aquatic feature. As a result, and based on size alone, NRSI recommends that this woodland be considered significant. P082-W1 is located adjacent to the proposed access road and cabling associated with turbine no. P082. An EIS is required for the Project components proposed within 120 m of this woodland.

P091-W1

This woodland community is relatively small (1.1 ha), and is dominated by sugar maple, white elm, and bitternut hickory (Carya cordiformis). This community has no interior habitat, and limited connectivity to other candidate significant natural features through long, narrow, hedgerows. NRSI recommends that this feature be considered not significant. An EIS is not required for Project components proposed within 120 m of this woodland.

P091-W2

This large, 8.7 ha, lowland forest is dominated by white elm and Manitoba maple, with common buckthorn and white elm in lower habitat strata. This community is large enough to be considered significant and was observed to follow, and provide vegetated cover, to a large stretch of a natural watercourse channel. As a result, NRSI recommends that this feature be considered significant based on its large size and ecological function. P091-W2 is located within 110 m of a section of cabling along Base Road. An EIS is required for the Project components proposed within 120 m of this woodland.

P091-W3

This small, 0.6 ha, forest community appears to consist of oak and hickory species, with a lowland inclusion associated with the small creek running through. It is in very close proximity to a rural residence. Based on the small size of this community and lack of connectivity or other ecological function, NRSI recommends that this community be considered not significant. An EIS is not required for Project components proposed within 120 m of this woodland.

P092-W1
Dominated by sugar maple, white elm, and bitternut hickory, this small (1.6 ha) woodland has several mid-aged trees in the canopy. No interior habitat is present and little ecological function was observed by NRSI biologists during site investigations. As a result of no ecological functions or uncommon characteristics of this small woodland, NRSI recommends this feature is not considered significant. An EIS is not required for Project components proposed within 120 m of this woodland.

P092-W2
This young, 4.26ha coniferous plantation is dominated entirely by white pine trees, with some garlic mustard and dandelion within the groundcover layer. No interior habitat is present and little ecological function was observed by NRSI biologists during site investigations. However, this community is considered significant based on size alone and an EIS is required for the Project components proposed within 120 m of this woodland. P092-W2 is located within 110 m of the cabling along Base Road and Ridge Line.

P102-W2
This forest community consists of a canopy dominated by bur oak, silver maple, and red oak, with immature white elm in the subcanopy. This 1.9 ha mid-aged forest contains many trees within the 10-24 cm dbh range with some snags in the 25 to 50 cm dbh range. Because of its small size and relative isolation from other natural features, NRSI recommends that this woodland is not considered significant. An EIS is not required for Project components proposed within 120 m of this woodland.

P108-W1
Municipal mapping of the Community of Harwich Township has identified this natural feature as significant woodland (Chatham-Kent 2010). Site investigations have confirmed that this large, 24.98 ha, woodland is dominated by white elm and silver maple. The sub-canopy is dominated by several green ash and white elm saplings. The observed species associations indicate that this community may have been historically wet, however site investigations have identified it is now a moist forest that contains an inclusion of confirmed wetland habitat within 120 m of the Project area. This woodland also contains vernal pools which have been considered candidate amphibian breeding habitat. This woodland also has some connectivity to another nearby significant woodland, as deemed by municipal mapping (Chatham-Kent 2010). As a result, NRSI recommends that this woodland be considered significant. P108-W1 is located within 76 m of the proposed turbine no. P120. As such, an EIS is required for the Project components proposed within 120 m of this woodland.

P111-W1
This large, 7.83 ha sugar maple forest is dominated by black cherry, sugar maple and basswood in the dense super-canopy. The woodland follows, and provides cover, to an aquatic feature (P117-D1). This community is considered significant based on size, and the ecological benefits provided by the association with the watercourse provides linkage habitat for wildlife. As a result, NRSI recommends that this community be considered significant. P111-W1 is located immediately adjacent to a section of the cabling route along 10th Line, from Bloomfield Road to Charing Cross Road. An EIS is required for the Project components proposed within 120 m of this woodland.

P114-W1

This 12.4 ha riverine woodland follows, and provides cover, to a natural aquatic feature (P114-D1) and provides a linkage function between the northern and southern portions of the Project area. This corridor woodland is dominated by white elm in the canopy and sub-canopy, and staghorn sumac and hawthorn shrubs in the dense understorey. The woodland consists of very few trees larger than 24 cm dbh, and occasional snag habitat. This woodland is an assumed movement corridor for numerous wildlife species including a rare species of snake that was observed by NRSI biologists. Based on the size and linkage function, NRSI recommends that this woodland be considered significant. P114-W1 is immediately adjacent to the access road and cabling associated with turbine no. P075. An EIS is required for the Project components are proposed in and within 120 m of this woodland.

P117-W1

Dominated by sugar maple and American beech, this 6.8 ha forest community contains many trees in the 10-24 cm dbh range, with occasional snag habitat. It is located immediately south of the vegetated corridor along the railway line, and provides cover to a natural aquatic feature (P117-D2). Based on the size and close proximity to linkage features, NRSI recommends that this woodland be considered significant. P117-W1 is located immediately adjacent to a section of the transmission corridor from Dillon Road to Charing Cross Road. An EIS is required for the Project components proposed within 120 m of this woodland.

P118-W1

Identified in the municipal mapping for the Community of Harwich Township as a significant woodland (Chatham-Kent 2010), this 6.7ha riverine forest is dominated by American basswood, white elm, and black walnut in the canopy, with green ash in the sub-canopy. The understorey is characterized by black walnut with white elm and riverbank grape (Vitus riparia). This forest contains a few trees greater than 50 cm DBH in size. This linear forest is located along a semi-treed drainage feature which connects to Rondeau Bay and other large woodlands. Based on its size and function as a linkage feature, NRSI recommends that this woodland be considered significant. P118-W1 is located 55 m from proposed turbine no. P118. As such, an EIS is required for the Project components proposed within 120 m of this woodland.

P139-W1

This woodland is a 2.3 ha immature white spruce (Picea glauca), white cedar (Thuja occidentalis), and sugar maple plantation, with larger coniferous trees along the outside and smaller deciduous trees in the centre. Groundcover in this community is dominated by Canada goldenrod, smooth brome, and wild carrot (Daucus carota). The largest trees are less than 10 m in height, with no trees larger than 24 cm dbh. Despite the fact that this woodland contains no interior habitat, connectivity to other habitats, or uncommon characteristics, it is of moderate size, and as a result, NRSI recommends that this woodland be considered significant. P139-W1 is located immediately adjacent to a section of the cabling route along Mull Road, from Brush Line to Sinclair Line. An EIS is required for these Project components which occur within 120 m of this woodland.

P139-W5
This young (3.95ha) community is dominated by white ash, bur oak, black walnut and eastern red cedar in the canopy, and white ash, staghorn sumac and tartarian honeysuckle in the sub-canopy. Understory species include Canada goldenrod, staghorn sumac and tartarian honeysuckle. Despite the fact that this woodland contains no interior habitat, or uncommon characteristics, it is of moderate size, it provides water protection for the drain that runs through it, and it is connected to P139-W6. As a result, NRSI recommends that this woodland be considered significant. P139-W5 is located adjacent to a section of the cabling route along Talbot Trail. An EIS is required for Project components which occur within 120 m of this woodland.

P139-W6
This small (1.23ha) mid-age community is dominated by white ash, trembling aspen and white spruce in the canopy, with white ash, trembling aspen and white cedar in the sub-canopy. Understory species include Canada goldenrod, teasel, and tartarian honeysuckle. Despite the fact that this woodland contains no interior habitat, connectivity to other habitats, or uncommon characteristics, it provides water protection for the drain that runs through it and is connected to P139-W5. As a result, NRSI recommends that this woodland be considered significant. P139-W6 is located adjacent to a section of the cabling route along Talbot Trail. An EIS is required for Project components which occur within 120 m of this woodland.

P139-W7
This 5.74ha, mid-age community is dominated by black walnut, sugar maple, and white ash in the canopy, with sugar maple, white elm and red oak in the sub-canopy. Understory species include Allegheny blackberry, red raspberry and gray dogwood. Despite the fact that this woodland contains no interior habitat, connectivity to other habitats, or uncommon characteristics, it is of moderate size and it likely provides water protection to the watercourses that run through it. As a result, NRSI recommends that this woodland be considered significant. P139-W7 is located adjacent to a section of the cabling route along Talbot Trail. An EIS is required for Project components which occur within 120 m of this woodland.

P139-W8
This 13.3ha, mature community is dominated by sugar maple, white ash and American beech in the canopy, with sugar maple, American beech and white pine in the sub-canopy. Understory species include Canada goldenrod, red raspberry and white pine. This woodland is large, contains some interior habitat, and provides water protection to the features within it. As a result, NRSI recommends that this woodland be considered significant. P139-W8 is located adjacent to a section of the cabling route along Talbot Trail. An EIS is required for Project components which occur within 120 m of this woodland.

P139-W9
This 2.84ha, mid-age community is dominated by white elm, Freeman's maple and weeping willow in the canopy, with white elm, white cedar and white pine in the sub-canopy. Understory species include Canada goldenrod and sugar maple. Despite the fact that this woodland contains no interior habitat, connectivity to other habitats, or uncommon characteristics, it is >2ha in size and likely provides water protection to the drains that run through it. As a result, NRSI recommends that this woodland be

considered significant. P139-W9 is located adjacent to a section of the cabling route along Talbot Trail. An EIS is required for Project components which occur within 120 m of this woodland.

P156-W1
This large (10.29 ha), mid-age forest community is dominated by shagbark hickory, green ash, and tulip tree. A large hedgerow (P031-H2) provides connectivity for this habitat and the railbed community. This woodland also contains a small amount of interior habitat. As such, NRSI recommends that this feature be considered significant. P156-W1 is located immediately adjacent to the access road and cabling associated with proposed turbine no. P156. An EIS is required for the Project components proposed within 120 m of this woodland.

P162-W1
This forest community is dominated by sugar maple, American beech, white ash and bur oak in the super-canopy. This large, 30.08 ha, mature forest contains abundant snags and deadfall. A rock pile, which could provide overwintering habitat for snakes, is also found within this woodland. This large woodland contains some interior habitat, and as such NRSI recommends that this feature be considered significant. P162-W1 is located adjacent to the cabling for proposed turbine no. P162. As such, an EIS is required for the Project components proposed within 120 m of this woodland.

P162-W2
This large (9.31 ha) forest community is dominated by sugar maple and white ash in the canopy. The sparse sub-canopy also includes sugar maple and white ash, as well silver maple and basswood. This community has no interior habitat, and limited connectivity to other candidate significant natural features through long, narrow, hedgerows. NRSI recommends that this feature be considered significant based on its size alone. P162-W2 is located adjacent to the access road and cabling associated with proposed turbine no. P162. As such, an EIS is required for Project components proposed within 120 m of this woodland.

P166-W1
This large (11.84 ha), mid-age forest is dominated by sugar maple, silver maple and American beech in the thick canopy. The sub-canopy also includes sugar maple, silver maple and beech, while the understory is dominated by sparse sugar maple, riverbank grape and horsetail. The sparse groundcover consists of moss species. This woodland contains very few small snags (<10 cm dbh). NRSI recommends that this feature be considered significant based on size alone. P166-W1 is located 74 m from turbine no. P166. An EIS is required for Project components proposed within 120 m of this woodland.

P166-W2
This small (0.47 ha), mid-age community is dominated by white elm and green ash in the canopy, with black cherry in the sub-canopy. The understory is dominated by prickly ash, blackberry sp. and nannyberry. The groundcover is thick, and is dominated by goldenrod sp., avens and Virginia creeper. Snags between 10 and 24 cm dbh occur in this woodland. P166-W2 is proposed within 26 m of turbine no. P166, however, no vegetation removal is required within this woodland for the construction of this turbine. Because of its small size and relative isolation from other natural features, NRSI

recommends that this woodland is not considered significant. As such, an EIS is not required for Project components proposed within 120 m of this woodland.

P173-W1
This small (1.5 ha), mature community consists of a dense canopy of sugar maple, American beech, white ash and black cherry. Sugar maple and American beech are also present in the sub-canopy. Understory species include sugar maple, American beech and white ash. The thick groundcover consists of poison ivy, Virginia creeper, stinging nettle and enchanter's nightshade. Occasional large snags (25-50 cm dbh) occur within this woodland, as such, P173-W1 has been considered significant habitat for s-ranked bat species. P173-W1 is proposed within 78 m of turbine no. P173. Portions of this woodland are located adjacent to an agricultural drain, although this drain is not considered a sensitive headwater, fish habitat, or groundwater discharge area as described in the woodland evaluation of significance criteria. Because of its consideration as significant habitat for s-ranked bat species (uncommon characteristic), NRSI recommends that this woodland be considered significant. An EIS is required for these Project components which are proposed within 120 m of this woodland.

CLA-W2
Designated as significant in the municipal mapping for the Community of Harwich Township (Chatham-Kent 2010), this 4.1 ha woodland community is a young riverine forest dominated by white elm. It is located along a creek corridor, and the forest connects to the rail bed, an important linear linkage feature across this landscape. A wetland has also been identified within this woodland; however, it is not within 120 m of the Project location. Based on its size and ecological linkage function, NRSI recommends that this woodland be considered significant. CLA-W2 is crossed by a section of the transmission corridor along Cundle Line. An EIS is required for these Project components which are proposed in and within 120 m of this woodland.

RB-A (RB-A1 – RB-A5)
These portions of the rail bed are described as deciduous woodland, primarily dominated by trembling aspen with white elm, silver maple, and red oak, as well as Manitoba maple in the sub-canopy. RB-A communities along the rail bed range in size from 0.48 to 4.79 ha. Regardless of their size, these rail bed communities represent important ecological linkage features in the landscape, connecting important habitats across a large distance. Based on the length of the vegetated rail bed corridor (including RB-A communities), as well as their ecological linkage functions, NRSI recommends that this community type be considered significant. RB-A communities are located within 120 m of the following project components: adjacent to the access road and cabling associated with turbine nos. P031, P135 and P156, and within 90 m of the access road and turbine no. P040. The RB-A community is also adjacent to proposed sections of the transmission corridor from the Railbed Substation to Dillon Road, from 9th Line to Charing Cross Road, from Charing Cross Road to Huffman Road and from Huffman Road to the Sattern Substation. An EIS is required for these Project components which are proposed in and within 120 m of this woodland.

RB-B (RB-B1, RB-B3, RB-B4)
Sections of the rail bed designated as RB-B range in size from 0.26 to 4.66 ha. These portions are described as mixed savannah, consisting of a few trembling aspen and white elm in the canopy, with some eastern red cedar, trembling aspen, hawthorns, and

Manitoba maple in the sub-canopy. Some of these communities contain inclusions of Dry Mixed Graminoid Tallgrass Prairie Type (MEGM1-4). One (1) area just east of Base Road contains a population of compass-plant (Silphium laciniatum var. laciniatum), a species of conservation concern in the province based on an S-Rank of S1. Based on the length of the vegetated rail bed corridor (including RB-B communities), as well as the ecological linkage function and uncommon characteristics, NRSI recommends that this community type be considered significant. RB-B communities are located within 120 m of the following project components: adjacent to the access road and cabling associated with turbine nos. P012, and P168, and adjacent to a section of the cabling route along Fargo Road, from Horton Line to the Rail Bed. RB-B communities are also adjacent to sections of the transmission corridor from 9th Line to Charing Cross Road, and from Charing Cross to Huffman Road. An EIS is required for these Project components which are proposed within 120 m of this woodland.

<u>RB-D (RB-D1, RB-D2)</u>
This portion of the rail bed consists of a sparse layer of staghorn sumac, Manitoba maple, eastern red cedar, and trembling aspen up to 10 m in height. It is dominated by a dense understorey of predominantly spotted knapweed (Centaurea maculosa), with some Canada goldenrod, red raspberry, and riverbank grape. The groundcover consists of similar species, as well as viper's bugloss. This community is highly disturbed, consisting of approximately 75% cover of exotic invasive species, and individual community sizes range from 0.19 to 2.08 ha. As a result of the large ecological linkage feature the rail bed creates, as well as the length of the vegetated rail bed corridor, NRSI recommends that this community type be considered significant. RB-D communities are adjacent to proposed sections of the transmission corridor from Charing Cross to Huffman Road and from Huffman Road to the Sattern Substation. An EIS is required for these Project components which are proposed in and within 120 m of this woodland.

<u>RB-E (RB-E1 – RB-E5)</u>
The dominant species along these sections of the rail bed include sparse trembling aspen and white elm in the canopy, with some Manitoba maple, common buckthorn, hawthorns, and eastern red cedar in the sub-canopy, making RB-E a deciduous savannah community. The understorey is dominated by red raspberry, Canada goldenrod, gray dogwood, and staghorn sumac. Individual community sizes range from 0.1 to 1.79ha. These communities are contiguous to other communities along the rail bed, creating a large ecological linkage feature across the landscape. Based on the length of the vegetated rail bed corridor (including RB-E communities), as well as the ecological linkage function, NRSI recommends that this community type be considered significant. RB-E communities are located within 120 m of the following project components: adjacent to the access road and cabling associated with turbine nos. P034 and within 70 m of the access road and cabling associated with turbine no. P040. The RB-E community is also proposed adjacent to a section of the cabling route along Drury Line, from the Railway to Harwich Road, and adjacent to a section of the cabling route along Kent Bridge Road, from the Rail Bed to Front Line. RB-E communities are also adjacent to sections of the transmission corridor from Charing Cross to Huffman Road and from Huffman Road to the Sattern Substation. A portion of the RB-E community is also adjacent to the proposed Sattern Substation. An EIS is required for the Project components which are proposed in and within 120 m of this woodland.

RB-F (RB-F1 – RB-F3)
The portions of the rail bed designated as RB-F are classified as deciduous savannah, and characterized by sparse trembling aspen, white elm, and hawthorns, with a thick understorey of red raspberry, viper's bugloss (Echium plantagineum), common reed, and wild carrot. Individual communities range in size from 0.18 to 5.82 ha in size, but are contiguous to other communities along the rail bed. As a result of the large ecological linkage feature the rail bed creates, as well as the length of the vegetated rail bed corridor (including RB-F communities), NRSI recommends that this community type be considered significant. RB-F communities are located within 120 m of the following project components: adjacent to the access road and cabling associated with turbine nos. P012, P066, and P168, immediately adjacent to the proposed turbine no. P125, overlapped by the cabling associated with proposed turbine P067, and overlapped by the turbine blade tip of the proposed turbine no. P094. The RB-F community is also proposed adjacent to a section of the cabling route along Cooper Road, from Morris Line to Gleeson Line, along Morris Line/6th Line West, from Cooper Road to turbine no. P099, and adjacent to sections of the transmission corridor from the Railbed Substation to Dillon Road and from 9th Line to Charing Cross Road. The RB-F community is also adjacent to the Railbed Substation. An EIS is required for these Project components which are proposed in and within 120 m of this woodland.

Table 9. Woodland Evaluation of Significance Summ ary for the Project

This table identifies the presence of characteristics of each wooded habitat described above. These characteristics have been compared to the evaluation criteria outlined in the Natural Heritage Assessment Guide (OMNR 2011), including woodland size, ecological functions, uncommon characteristics, and economic or social value to determine overall significance. Woodlands meeting any one of these criteria may be considered significant.

Woodland	Size (ha)	Woodland Size	Ecological Function	Uncommon Characteristics	Economic or Social Value	Overall Significance
P001-W1	15.8	Yes	Yes	No	No	Yes
P002-W1	1.4	No	Yes	No	No	Yes
P002-W2	1.0	No	Yes	No	No	Yes
P004-W1	7.8	Yes	Yes	No	No	Yes
P011-W1	2.1	Yes	Yes	No	No	Yes
P014-W2	13.7	Yes	Yes	No	No	Yes
P017-W1	0.9	No	No	No	No	No
P022-W1	13.6	Yes	Yes	No	No	Yes
P024-W1	8.1	Yes	No	No	No	Yes
P024-W2	55.4	Yes	Yes	No	No	Yes
P027-W1	16.4	Yes	Yes	No	No	Yes
P029-W1	2.74	Yes	No	No	No	Yes
P030-W2	2.22	Yes	No	No	No	Yes
P030-W3	0.43	No	No	No	No	No
P033-W1	1.4	No	Yes	No	No	Yes
P034-W1	4.0	Yes	Yes	No	No	Yes
P042-W1	13.7	Yes	Yes	No	No	Yes
P053-W3	11.1	Yes	No	No	No	Yes
P053-W4	4.95	Yes	Yes	No	No	Yes
P054-W1	13.22	Yes	No	No	No	Yes

Woodland	Size (ha)	Woodland Size	Ecological Function	Uncommon Characteristics	Economic or Social Value	Overall Significance
P054-W2	1.69	No	Yes	No	No	Yes
P055-W1	5.1	Yes	No	No	No	Yes
P064-W1	0.2	No	No	No	No	No
P065-W1	2.0	Yes	No	No	No	Yes
P065-W2	3.3	Yes	Yes	No	No	Yes
P065-W3	2.5	Yes	Yes	No	No	Yes
P077-W1	2.5	Yes	No	No	No	Yes
P082-W1	2.1	Yes	No	No	No	Yes
P091-W1	1.1	No	No	No	No	No
P091-W2	8.7	Yes	Yes	No	No	Yes
P091-W3	0.6	No	No	No	No	No
P092-W1	1.6	No	No	No	No	No
P092-W2	4.26	Yes	No	No	No	Yes
P102-W2	1.9	No	No	No	No	No
P108-W1	24.98	Yes	Yes	No	No	Yes
P111-W1	7.83	Yes	Yes	No	No	Yes
P114-W1	12.4	Yes	Yes	No	No	Yes
P117-W1	6.8	Yes	Yes	No	No	Yes
P118-W1	6.7	Yes	Yes	No	No	Yes
P139-W1	2.3	Yes	No	No	No	Yes
P139-W5	3.95	Yes	Yes	No	No	Yes
P139-W6	1.23	No	Yes	No	No	Yes
P139-W7	5.74	Yes	Yes	No	No	Yes
P139-W8	13.3	Yes	Yes	No	No	Yes
P139-W9	2.84	Yes	Yes	No	No	Yes
P156-W1	10.29	Yes	Yes	No	No	Yes
P162-W1	30.08	Yes	Yes	No	No	Yes
P162-W2	9.31	Yes	No	No	No	Yes
P166-W1	11.84	Yes	No	No	No	Yes
P166-W2	0.47	No	No	No	No	No
P173-W1	1.5	No	No	Yes	No	Yes
CLA-W2	4.1	Yes	Yes	No	No	Yes
RB-A	0.48 to 4.79	No/Yes	Yes	No	No	Yes
RB-B	0.26 to 4.66	No/Yes	Yes	Yes	No	Yes
RB-D	0.19 to 2.08	No/Yes	Yes	No	No	Yes
RB-E	0.1 to 1.79	No/Yes	Yes	No	No	Yes
RB-F	0.18 to 5.82	No/Yes	Yes	No	No	Yes

Based on a review of the site-specific characteristics of all woodlands within 120 m of Project components, NRSI recommends that forty-nine (49) woodlands are considered significant based on the criteria outlined in the Natural Heritage Assessment Guide (OMNR 2011).

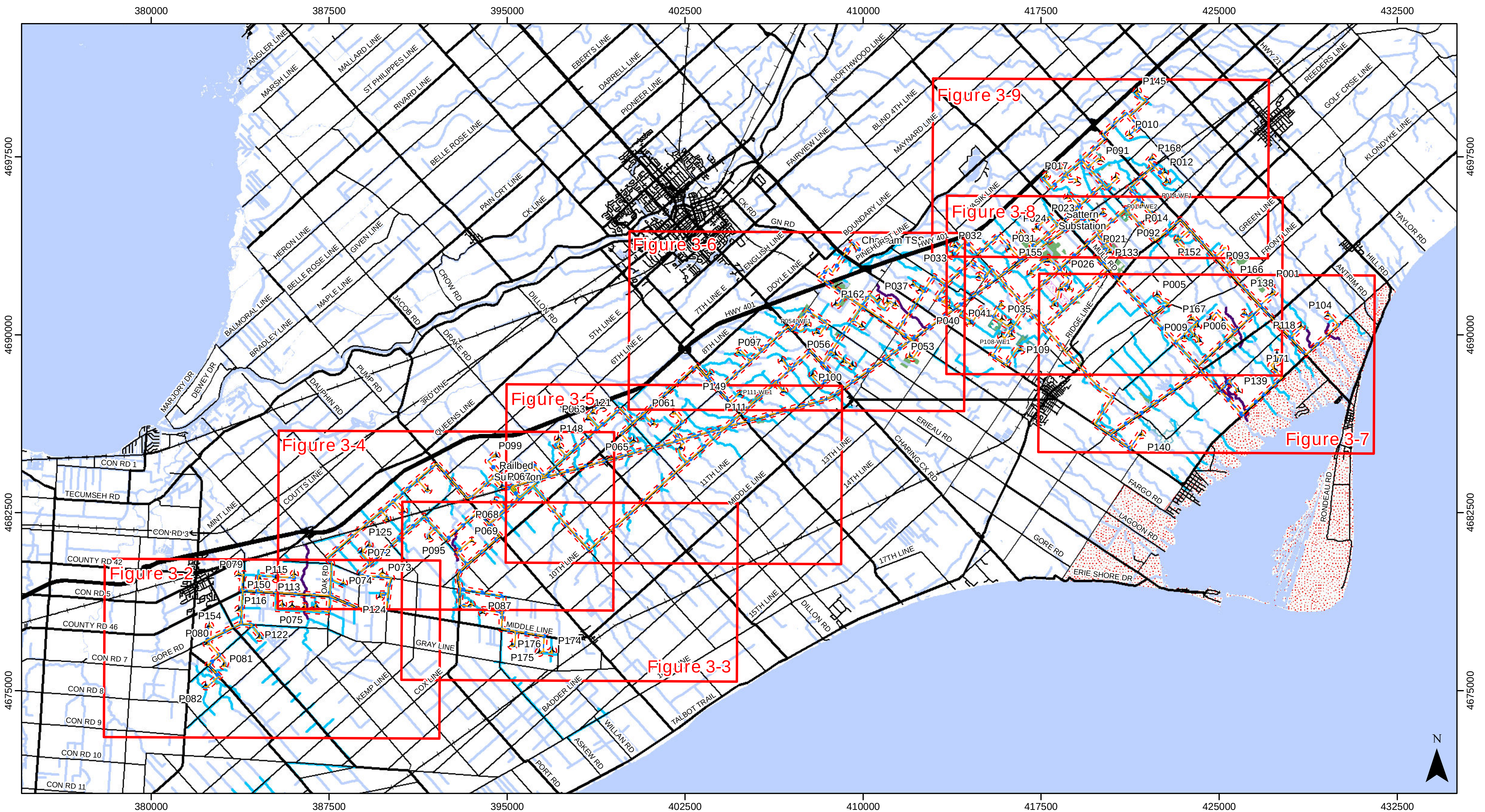

Figure 3-1

South Kent Wind Project

Significant Wildlife Habitat - Key Map

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 1 2 4 km

April 24, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:35,000 (at 11x17")

Legend

- Project Area (April, 2012)
- Constructible Area
- Proposed Turbine (L020)
- Substation
- Cabling
- Access Road
- Highway
- Primary Road
- Secondary Road
- Railway
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Wetland Area (NRSI)
- Wooded Area (NRSI)
- Important Bird Area

Seasonal Concentration Areas
- Bat Maternity Roost

Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat

Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_Fig3-1_SigFeatures_KeyMap_150k_2012_04_24_ELF.mxd

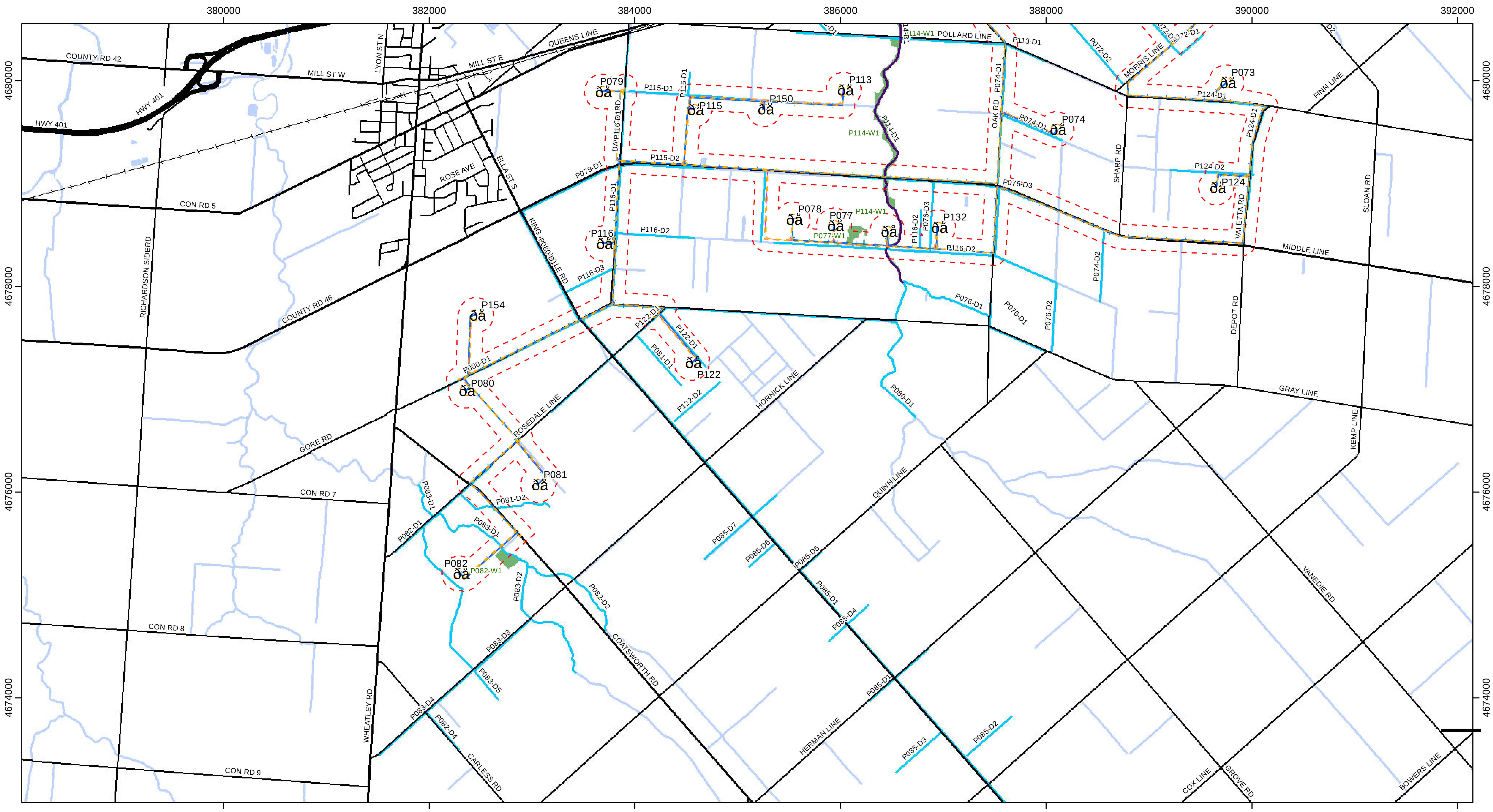

Figure 3-2

South Kent Wind Project

Significant Wildlife Habitat

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 0.225 0.45 0.9 km

April 24, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:35,000 (at 11x17")

Legend

- Project Area (April, 2012)
- Constructible Area
- Proposed Turbine (L020)
- Substation
- Cabling
- Access Road
- Highway
- Primary Road
- Secondary Road
- Railway
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Wetland Area (NRSI)
- Wooded Area (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_Fig3-2to3-9_SigFeatures_35k_2012_04_24_ELF.mxd

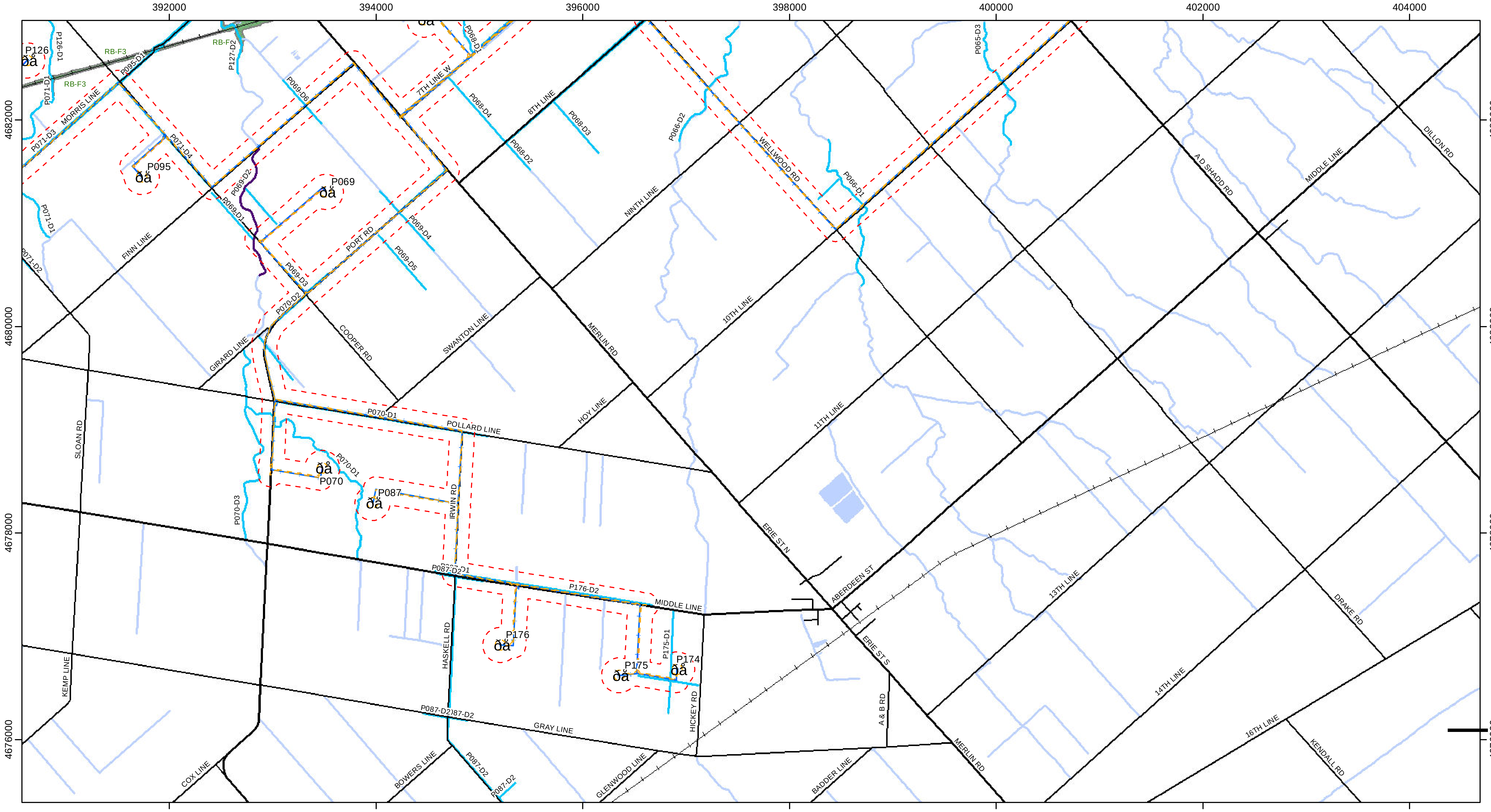

Figure 3-3

South Kent Wind Project

Significant Wildlife Habitat

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 0.225 0.45 0.9 km

April 24, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:35,000 (at 11x17")

Legend

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- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_Fig3-2to3-9_SigFeatures_35k_2012_04_24_ELF.mxd

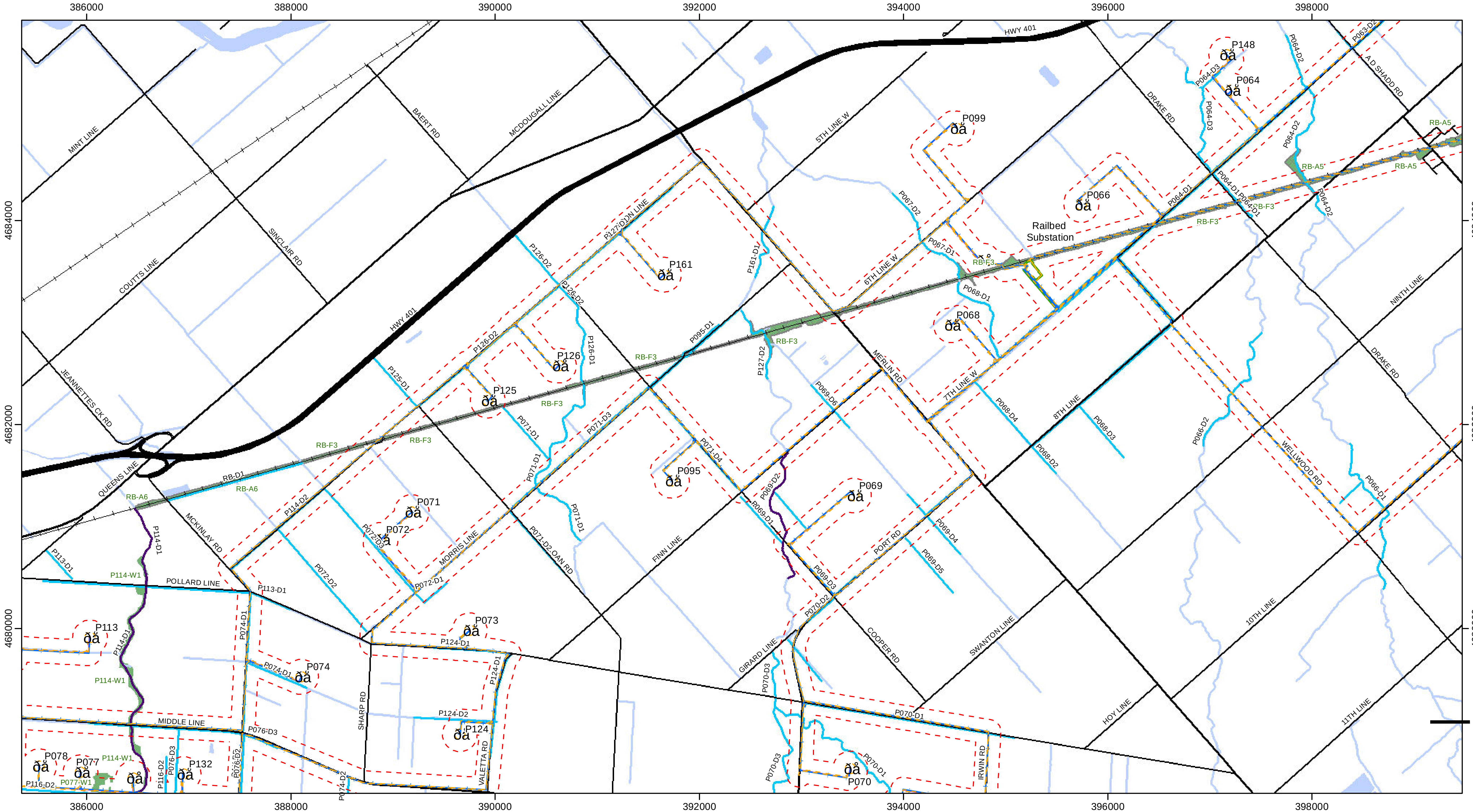

Figure 3-4

South Kent Wind Project

Significant Wildlife Habitat

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 0.225 0.45 0.9 km

April 24, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:35,000 (at 11x17")

Legend

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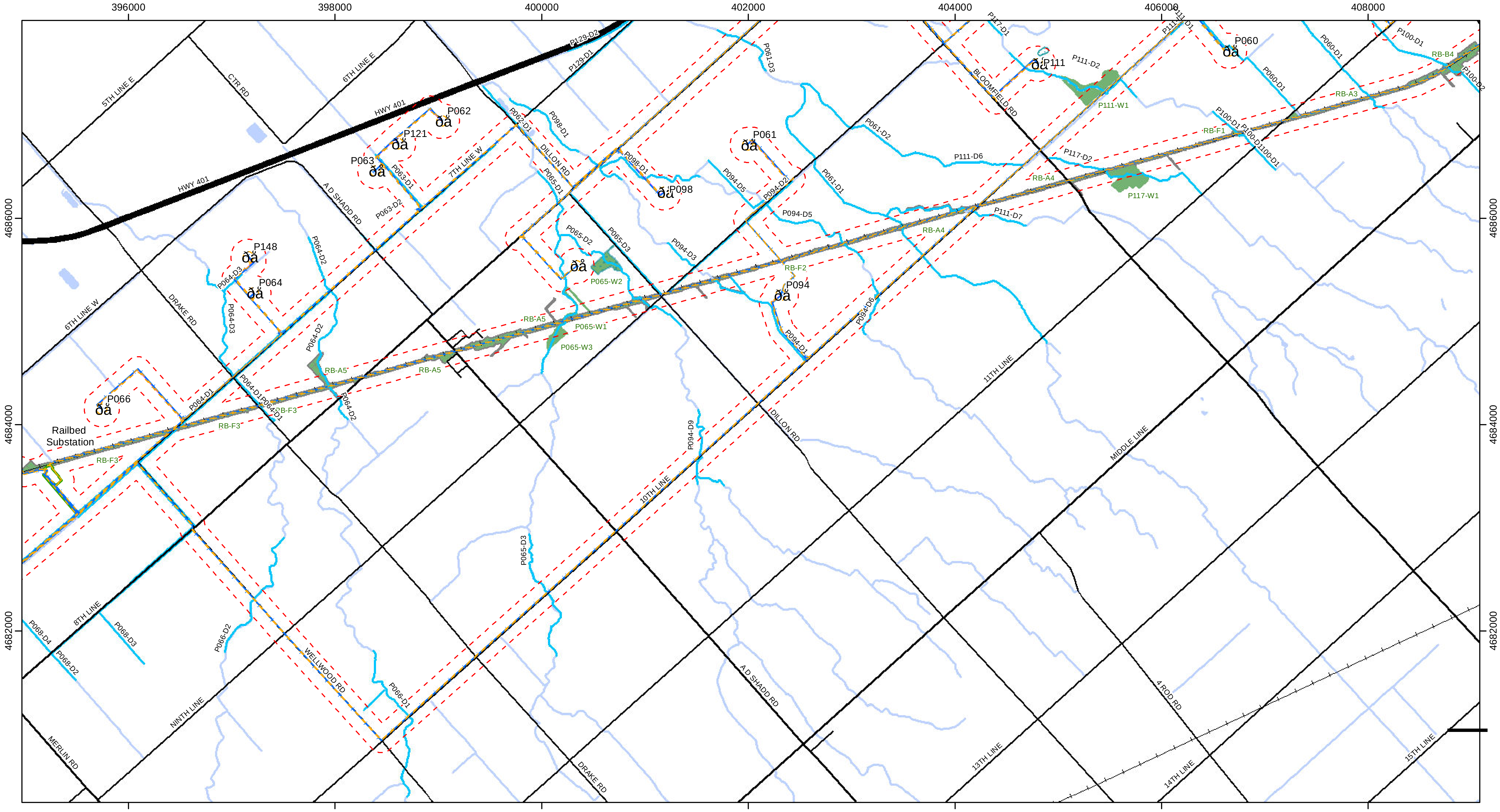

Figure 3-5

South Kent Wind Project

Significant Wildlife Habitat

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 0.225 0.45 0.9 km

April 24, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:35,000 (at 11x17")

Legend

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Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_Fig3-2to3-9_SigFeatures_35k_2012_04_24_ELF.mxd

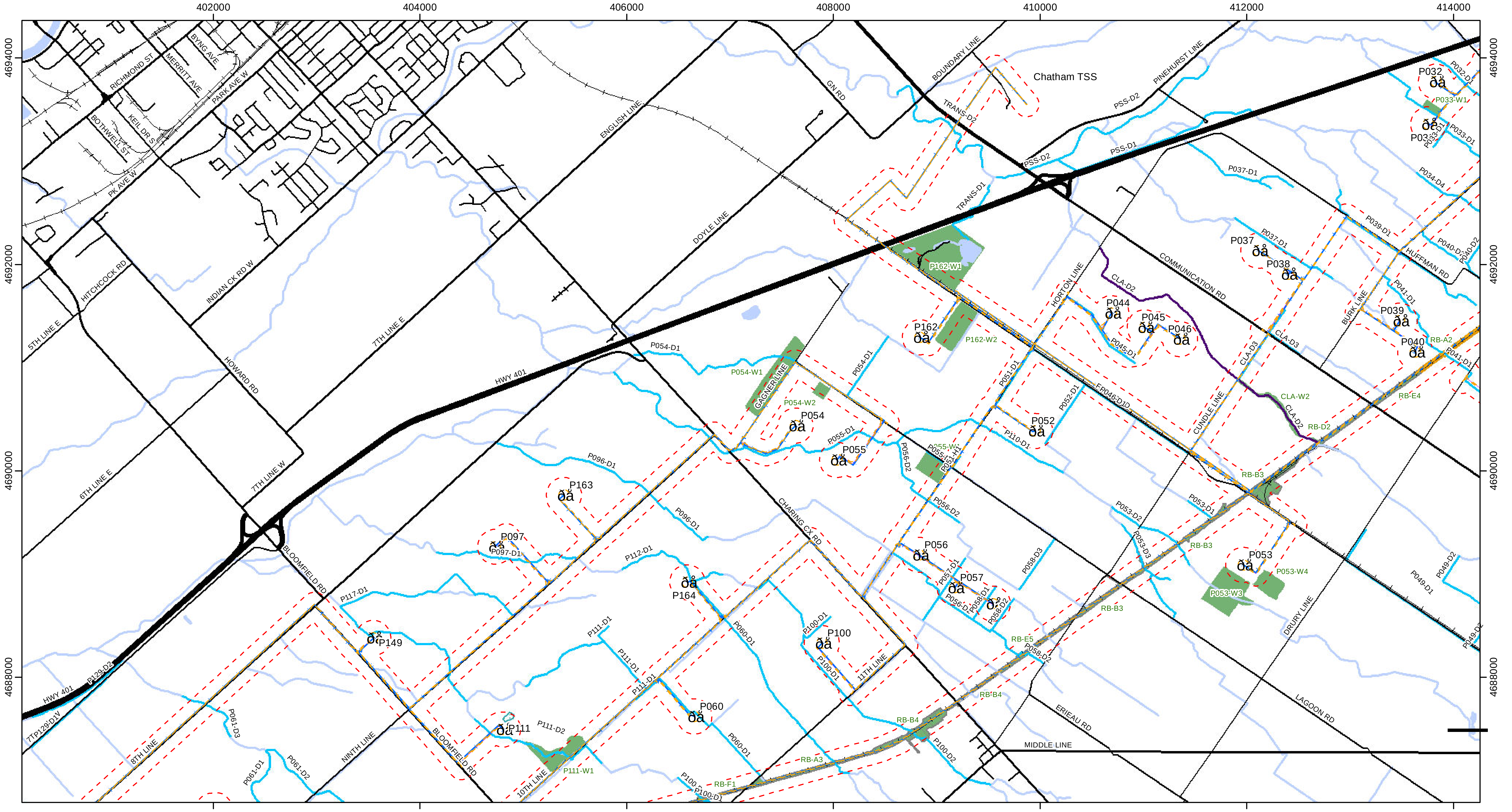

Figure 3-6

South Kent Wind Project

Significant Wildlife Habitat

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 0.225 0.45 0.9 km

April 24, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:35,000 (at 11x17")

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Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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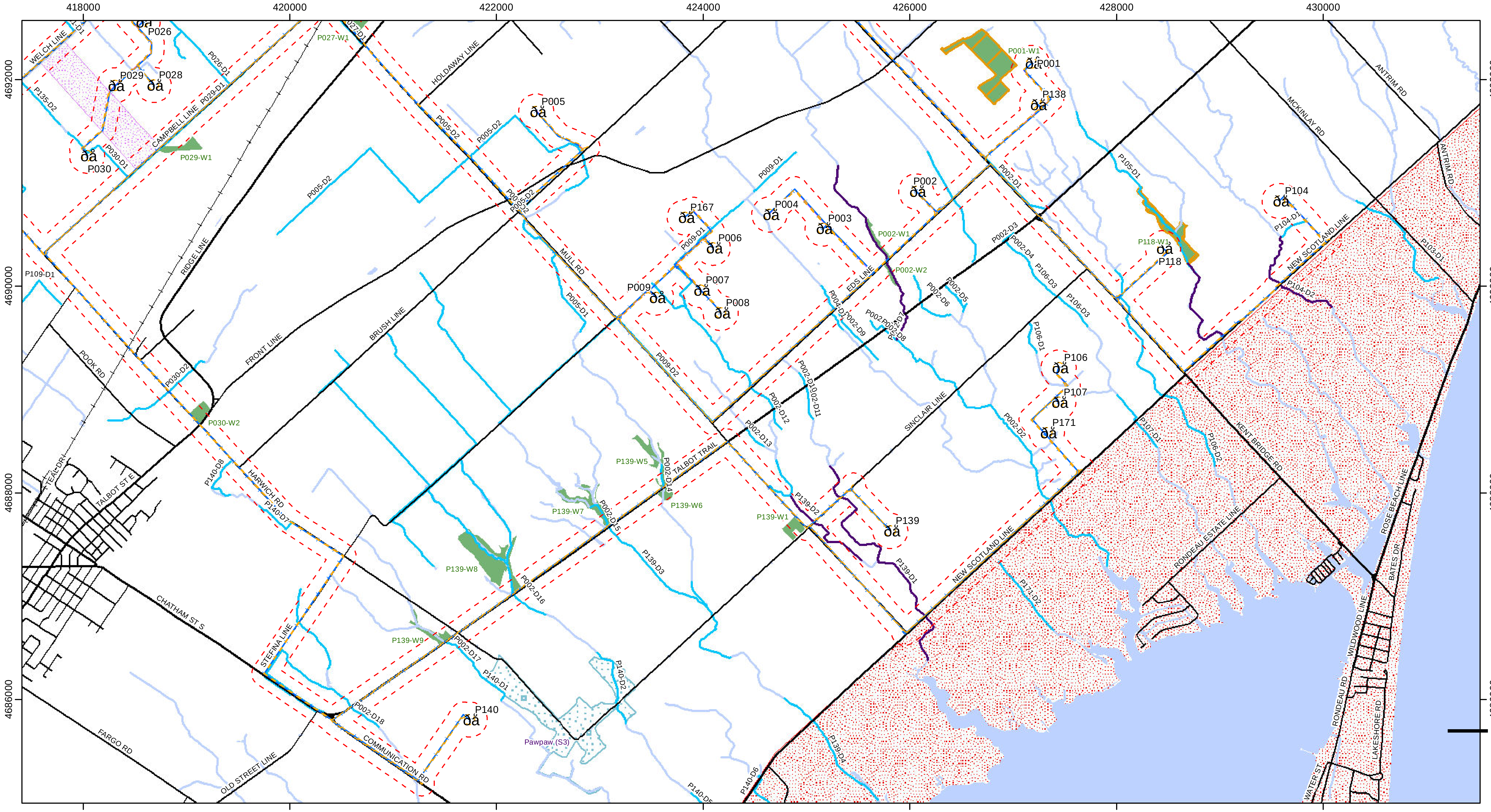

Figure 3-7

South Kent Wind Project

Significant Wildlife Habitat

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

0 0.225 0.45 0.9 km

April 24, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
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- Important Bird Area

Seasonal Concentration Areas
- Bat Maternity Roost

Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat

Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_Fig3-2to3-9_SigFeatures_35k_2012_04_24_ELF.mxd

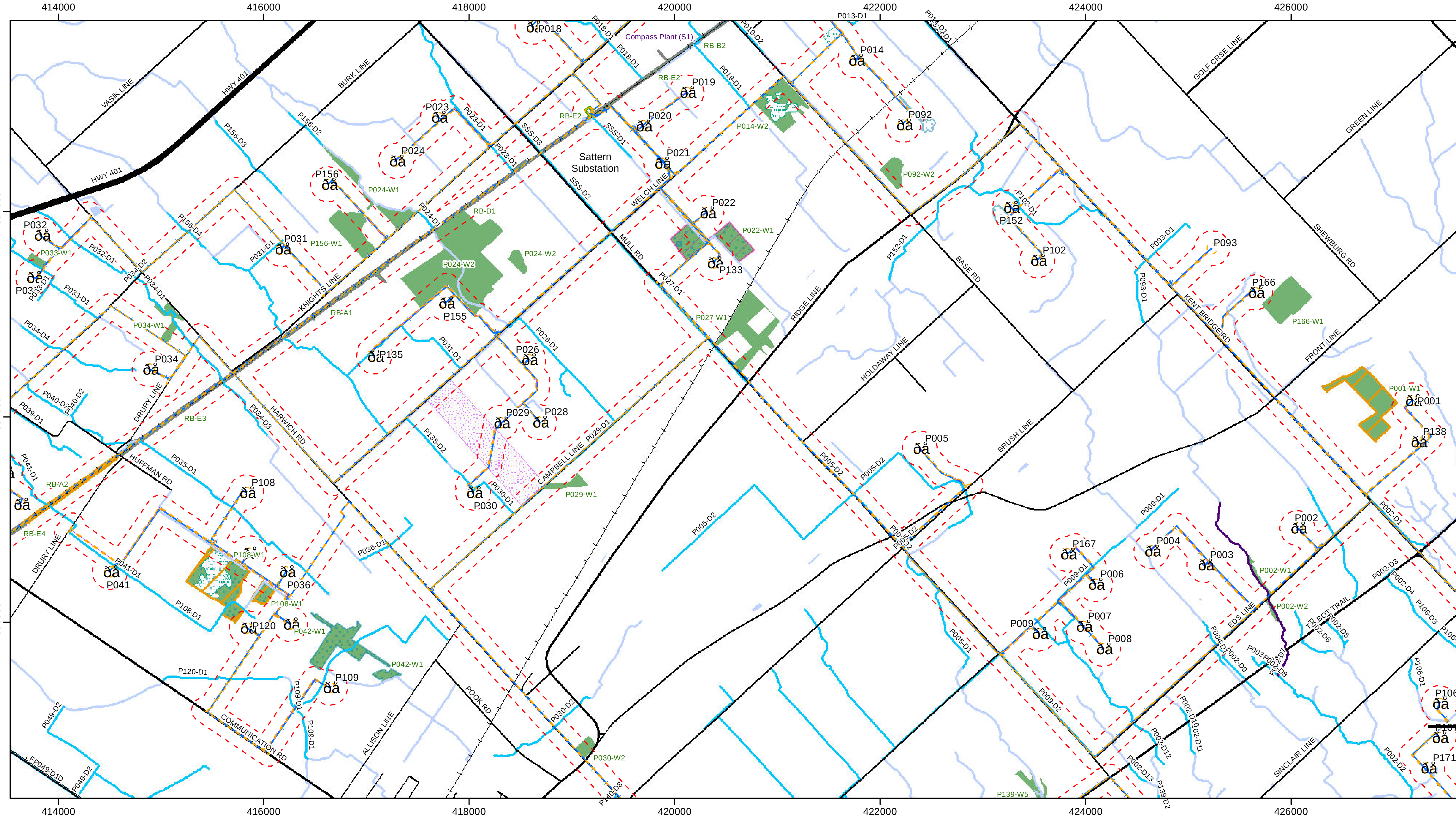

Figure 3-8

South Kent Wind Project

Significant Wildlife Habitat

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

0 0.225 0.45 0.9 km

April 24, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:35,000 (at 11x17")

Legend

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Seasonal Concentration Areas
- Bat Maternity Roost

Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat

Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_Fig3-2to3-9_SigFeatures_35k_2012_04_24_ELF.mxd

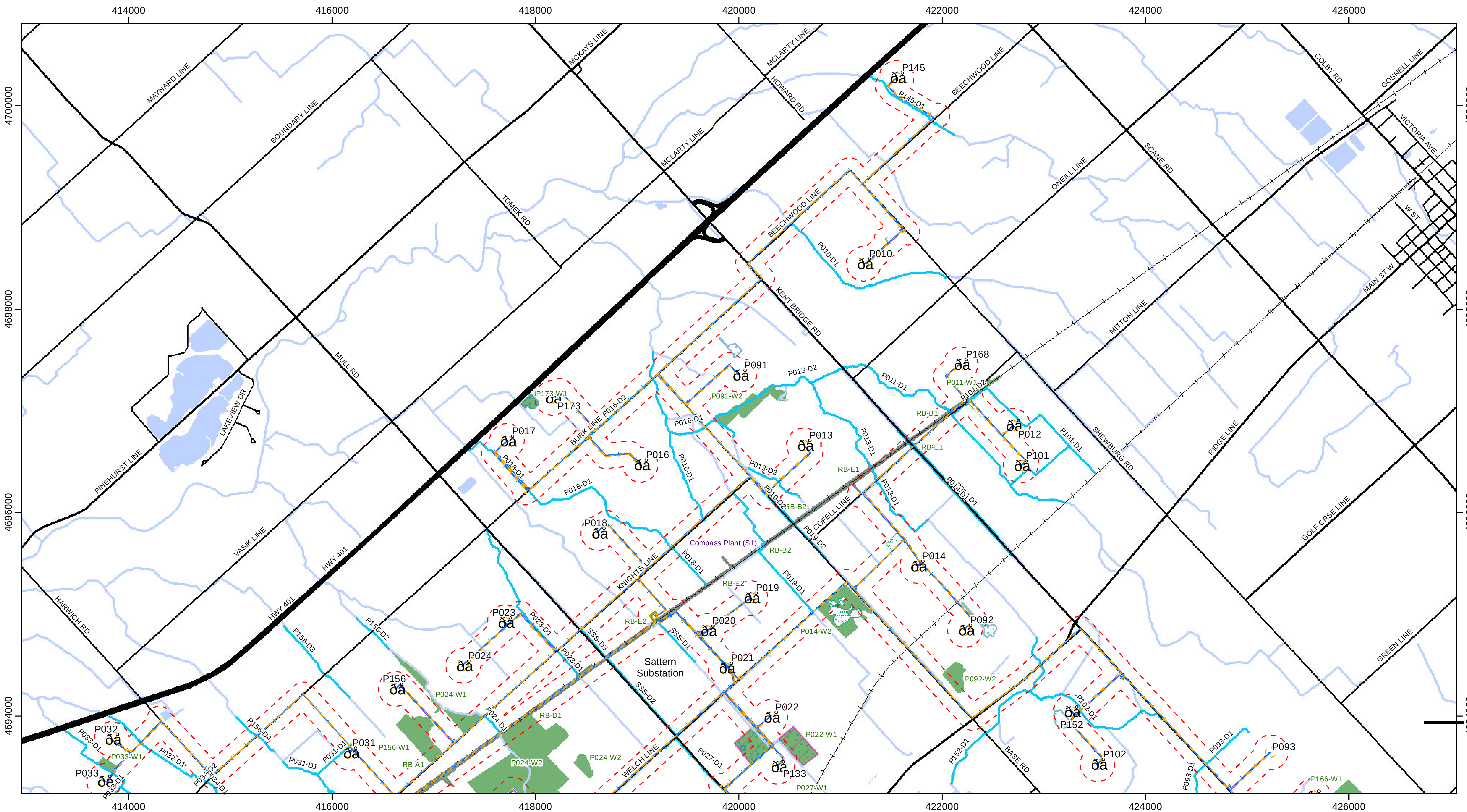

Figure 3-9

South Kent Wind Project

Significant Wildlife Habitat

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

0 0.225 0.45 0.9 km

April 24, 2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
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Path: X:\1184_ChathamKentWF\NRSI_1184_Fig3-2to3-9_SigFeatures_35k_2012_04_24_ELF.mxd

6.3 Significant Wetlands

Through the site investigation phase of this Project, six (6) wetland communities were identified within 120 m of proposed Project components including a portion of the Rondeau Bay North Shore PSW and five (5) new wetlands (P014-WE1, P014-WE2, P054-WE1, P108-WE1, and P111-WE1). As part of the Evaluation of Significance phase, NRSI biologists delineated the boundaries of the five (5) new wetlands using the Ontario Wetland Evaluation System (OWES) criteria. The ecological functions and characteristics of the wetlands located within 120m of the project location were assessed using the Wetland Characteristics and Ecological Functions Assessment as described in Appendix C of the Natural Heritage Assessment Guide (OMNR 2010c). According to Appendix C, all of the wetlands that are assessed using this tool must be treated as provincially significant for the purpose of this Project. A more detailed assessment for each of these five (5) wetlands has been provided in Table 10 below.

Table 10. Wetland Characteristics and Ecological Functions Assessment

Characteristic/ Ecological Function	Wetland ID				
	P014-WE1	P014-WE2	P054-WE1	P108-WE1	P111-WE1
Actual Wetland Size (ha)	1.5	4.2	0.3	9.8	0.5
Wetland Type	Fresh-Moist Oak-Maple Deciduous Forest Type (FODM9-2)	Fresh-Moist White Elm Lowland Deciduous Forest Type (FODM7-1) & Open Water Pond (OAO) Inclusion	Swamp Maple Mineral Deciduous Swamp (SWDM3-3)	Swamp Maple Mineral Deciduous Swamp Type (SWDM3-3) Inclusion	Silver Maple Mineral Deciduous Swamp (SWDM3-2)
Site Type	Palustrine	Palustrine	Palustrine	Palustrine	Palustrine
Vegetation Communities	h- Burr Oak, Shagbark Hickory, Freeman's Maple, Basswood, White Ash\ ts- Burr Oak,	h- White Elm, Shagbark Hickory, Freeman's Maple, Red Oak, White Ash ts-	h- Freeman's Maple, White Elm	h- White Elm, Silver Maple, Green Ash, Shagbark Hickory, Burr Oak, Black Cherry, Basswood,	h- White Elm, Freeman's Maple, Hawthorn sp., American Basswood, Black Walnut ts- Hawthorn

Characteristic/ Ecological Function	Wetland ID				
	P014-WE1	P014-WE2	P054-WE1	P108-WE1	P111-WE1
	White Elm, Shagbark Hickory, Freeman's Maple, Common Buckthorn, Basswood, Prickly Ash, White Ash, Choke Cherry ls- Shagbark Hickory, Common Buckthorn, Prickly Ash, White Ash, Choke Cherry gc- Poison Ivy, Virginia Creeper, Garlic Mustard, Avens sp., Red Raspberry, Riverbank Grape, Enchanter's Nightshade	Hawthorne sp., Common Buckthorn ls- Rosa sp., Hawthorne sp., Red Raspberry, Bramble sp., Prickly Ash gc- Heal-all, White Avens, Wild Strawberry, Poison Ivy, May Apple ne- Carex sp., Sensitive Fern, Soft-stem Bulrush, Bugleweed be- Typha, Water Plantain		Red Oak, Sugar Maple ts- White Elm, Silver Maple, Green Ash, Shagbark Hickory, Burr Oak, American Beech, Black Cherry, Basswood, Red Oak, Sugar Maple, Spicebush ls- Silver Maple, Green Ash, Shagbark Hickory, Prickly Ash, Bladdernut, American Beech, Black Cherry, Chokecherry, Ironwood, Basswood, Spicebush gc- Green Ash, Red Oak, Fringed Loosestrife, Carex sp., Wild Ginger, Moonseed, Viriginia Creeper, Wild Geranium, False Nettle, Agrimony, Stinging Nettle, Gooseberry, Jewelweed, Viola sp., Sensitive Fern, May Apple,	sp. Staghorn Sumac, Spicebush, Chokecherry ls- Riverbank Grape, Virginia Creeper, Wild Black Current, Spicebush gc- Stinging Nettle, Wild Geranium, White Avens, Enchanter's Nightshade ne- Carex sp., Sensitive Fern m- some on downed trees and at base of some living trees

Characteristic/ Ecological Function	Wetland ID				
	P014-WE1	P014-WE2	P054-WE1	P108-WE1	P111-WE1
				Nightshade, Blackberry, Prickly Gooseberry, Jack in the Pulpit	
Proximity to Other Wetlands	650 m from P014-WE2	650 m from P014-WE1	>5 km	>5 km	>1.5 km
Open Water Types	No open water	Type 1 (less than 5%)	No open water	No open water	No open water
Flood Attenuation (Total)	The wetland is Palustrine and has high flood retention.	The wetland is Palustrine and has high flood retention.	The wetland is Palustrine and has high flood retention.	The Swamp is Palustrine and has high flood retention.	The Swamp is Palustrine and has high flood retention.
Water Quality Improvement (Total)	WIF: Palustrine, LUF: Land use Over 50% agriculture, PUT: High Proportion of live trees	WIF: Palustrine, LUF: Land use Over 50% agriculture, PUT: High Proportion of live trees	WIF: Palustrine, LUF: Land use Over 50% agriculture, PUT: High Proportion of live trees	WIF: Palustrine, LUF: Land use Over 50% agriculture, PUT: High Proportion of live trees	WIF: Palustrine LUF: Land use over 50% agriculture, PUT: High proportion of live trees
Shoreline Erosion Control	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Groundwater Recharge (Total)	Palustrine Wetland with Silty Clay soils. No alteration of hydrology is expected.	Palustrine Wetland with Fine Silty Loam soils. No alteration of hydrology is expected.	Palustrine Wetland with Silty Clay soils. No alteration of hydrology is expected.	Palustrine Wetland. No soil information is available, although no alteration of hydrology is expected.	Palustrine Wetland. No soil information is available, although no alteration of hydrology is expected.
Species Rarity (Total)	No rare (S1-S3) species were observed within this habitat	No rare (S1-S3) species were observed within this habitat	No rare (S1-S3) species were observed within this habitat	Significant habitat for s-ranked bat species (northern long-eared bat (S3?), tricolored bat (S3?), and eastern	Significant habitat for s-ranked bat species (northern long-eared bat (S3?), tricolored bat (S3?), and eastern small-

Characteristic/ Ecological Function	Wetland ID				
	P014-WE1	P014-WE2	P054-WE1	P108-WE1	P111-WE1
				small-footed bat (S2-S3))	footed bat (S2-S3)
Significant Features and Habitats (Total)	None known to be present	None known to be present	None known to be present	None known to be present	None known to be present
Fish Habitat (Total)	Absent	Absent	Absent	Absent	Absent
Proximity to Project Components	11 m from access road/cabling (P014)	10 m from cabling (Welch Line from P155 to Base Road)	55m from cabling (Gagner Line/Lagoon Road from Charing Cross Road to the Rail Bed)	19 m from cabling (P035, P036, P108)	33 m from turbine P111

6.4 Significant Valleylands

No valleylands were identified within 120 m of proposed Project components during the records review or site investigation phases of the Project.

6.5 Significant Wildlife Habitat

NRSI has reviewed the four (4) broad categories of significant wildlife habitat, as identified by the Significant Wildlife Habitat Technical Guide (SWHTG) (OMNR 2000), which include seasonal concentration areas, specialized wildlife habitat, habitats of species of conservation concern, and animal movement corridors. NRSI has identified a total of four hundred and seventy-nine (479) candidate significant wildlife habitat areas within the Project area. Each of these candidate natural features has been addressed in more detail below, using the SWHTG and DRAFT Significant Wildlife Habitat Ecoregion Criteria Schedules for Ecoregion 7E (OMNR 2009a), which encompasses the entire Project area.

6.5.1 Seasonal Concentration Areas

NRSI has reviewed the SWHTG (OMNR 2000) and 2009 DRAFT addendum (OMNR 2009a) as it relates to seasonal concentration areas.

Waterfowl Stopover and Staging Areas

Nineteen (19) habitats along the southeast portion of the Project area, within 2 km of the IBA boundary, were considered candidate SWH for stopover and staging waterfowl.

Avian studies within the vicinity of the Project identified that the majority of waterfowl activity was located on Lake Erie or within Rondeau Bay. Pre-construction avian studies in March, June and from early September to mid-November from the now operational Front Line Wind Farm indicated that no swans, geese, or ducks were found utilizing fields within the Front Line Wind Farm Project area (Gengrowth 2008c). The Front Line Wind Farm is adjacent to or in close proximity to turbine nos. P001 and P138, and within 1 km of one turbine, P104.

NRSI biologists conducted mid- to late-March point count and transect surveys for waterfowl within this candidate waterfowl stopover and staging area. These surveys were designed to provide information that would allow for biologists to determine the presence of significant waterfowl staging areas within the candidate waterfowl stopover habitats identified around Rondeau Bay. According to the Draft Criteria Schedules, significant waterfowl stopover and staging areas are determined based on the presence of at least 100 tundra swans (Cygnus columbianus) using a given agricultural field. Agricultural fields are not considered significant for other waterfowl species. During field investigations, approximately 135 swans were observed over a 6-day time period. The largest single congregation of swans consisted of approximately 50 individuals in one (1) agricultural field. This agricultural field is located on the northwest corner of the Mull Road and Stefina Line intersection. This congregation does not meet the provincial criteria for significance.

As a result of the majority of waterfowl observations occurring on Lake Erie, and in the wetland and open water habitat of Rondeau Bay, NRSI recommends that no significant waterfowl stopover or staging areas are present within 120 m of the proposed Project location.

Reptile Hibernacula

Eleven (11) candidate reptile hibernacula SWH were identified within the Project. These features include rock piles, old building foundations, and organic and debris piles, all of which may provide ample cover for a hibernation site for local snake species.

Site-specific field investigations of these areas in the spring of 2011, fall of 2010 (NRSI 2012b), and other investigations conducted in the general vicinity of these locations in the spring and fall of the last few years (Stantec Consulting Ltd. 2007, Gengrowth Renewables Inc. 2008a-c; Helimax Energy Inc. 2008; M.K. Ince & Associates, Ltd 2008; Dillon Consulting Ltd. 2009; Wind Prospect Inc. 2009a, 2009b; Helimax Energy Inc. 2009a, 2009b) have not identified any snake species that may be using a hibernation site within the vicinity of these locations. One (1) large debris pile adjacent to Oak Road associated with the ditch P074-D1 is located in the vicinity of the location where the rare snake road mortality was found approximately 1.2 km from the location of the pile on Pollard Line. However, there is no indication that this snake or any other snakes may be using this pile for hibernation. Although all of the above habitats may provide snake hibernation sites, there is no indication that they meet the evaluation criteria for a significant wildlife habitat. As such, NRSI recommends that these locations be considered not significant for reptile hibernacula.

Bat Maternity Roosts

NRSI has identified thirteen (13) areas of candidate bat maternity colonies, identified in the following communities:

- P001-W1
- P002-W1
- P002-W2
- P004-W1
- P108-W1 (with wetland inclusion, P108-WE1)
- P118-W1
- P139-W1
- P139-W5
- P139-W6
- P139-W7

- P139-W8
- P139-W9
- RB-A2

Each of these locations has been evaluated in more detail below.

Acoustic bat monitoring located east of turbine no. P039 had an average bat passage rate of 4.45 bat passes/hr. The species associations across the four (4) stations monitored under this monitoring effort identified silver-haired bat/big brown bat as being the most abundant species group (73%). This activity level suggests a candidate SWH for bat maternity roosts. Site-specific vegetation mapping has identified one (1) vegetated watercourse corridor (P041-D1) in the immediate vicinity of this monitoring location. This watercourse feature is dominated by cattail (Typha sp.) and grass species not suitable for a bat maternity roost. Although passage rates and species associations suggest this could be a maternity roost habitat, site-specific vegetation mapping indicates that this area is more likely a foraging habitat for local bat species, with the closest wooded community located more than 400 m to the south. NRSI recommends that this habitat be considered not significant for bat maternity roosts.

Acoustic bat monitoring located east of proposed turbine no. P039 had an average bat passage rate of 4.45 bat passes/hr. This portion of the rail bed was classified during ELC surveys as Fresh-Moist Poplar Deciduous Woodland Type (WODM5-1), and it consists primarily of trembling aspen with white elm, silver maple, and red oak, along with Manitoba maple in the sub-canopy. The understory is dominated by red raspberry and Canada goldenrod, with staghorn sumac and common reed. Groundcover consists of red fescue, field horsetail, riverbank grape, and wild carrot. It is a mid-age community with some snags greater than 25cm dbh. The species associations across the four (4) stations monitored under this monitoring effort identified silver-haired bat/big brown bat as being the most abundant species group (73%). This activity level suggests a significant wildlife habitat for bat maternity roosts within a portion of the railbed community (RB-A2). However, according to Appendix D of the 2011 version of the Natural Heritage Assessment Guide, only bat maternity roost habitats that are overlapping with, or are within 120m of a wind turbine, need to be considered within the

Project area (OMNR 2011). The candidate bat maternity roost habitats that are within 120m of other Project components have been assumed significant and have been considered as generalized wildlife habitat. Since woodland RB-A2 is more than 120m from a turbine, this habitat has been assumed significant, and has been addressed as generalized wildlife habitat in the EIS.

The Harwich Wind Farm Project area was surveyed for bat activity by EchoTrack through the use of nocturnal RADAR studies (Wind Prospect Inc. 2009b). The results of this survey indicated a bat activity rate of approximately 5.4 bat passes/hr. The general area covered by this RADAR study overlaps with three (3) proposed turbines nos. P035, P036, and P042 for the Project. Also present within this general area surveyed by EchoTrack are a woodland feature (P108-W1) and an occasional hedgerow and watercourse features. Based on the 5.4 passes/hr bat activity rate, it is possible that a maternity roost could be present within the vicinity of this monitoring station. P108-W1 is also within 120m of a turbine. As such, NRSI recommends that the wooded feature (P108-W1) within the RADAR study area be considered significant wildlife habitat for bat maternity roosts.

NRSI biologists have noted that several acoustic bat monitoring studies within 6 km of Rondeau Bay and the immediately adjacent shorelines of Lake Erie have shown consistently higher bat activity than those found further inland or in close proximity to the shoreline in locations away from Rondeau Bay. These results have been noted at several of the monitoring stations for the Front Line Wind Farm, Flat Creek Wind Farm, and Erieau-Blenheim Wind Farm, all originally proposed (at least in part) within 6 km of Rondeau Bay. As such, NRSI recommends that all woodlands, of at least 0.5 ha in size, within 6 km of Rondeau Bay be considered significant habitat for bat maternity colonies. According to Appendix D of the 2011 version of the Natural Heritage Assessment Guide, only bat maternity roost habitats that are overlapping with, or are within 120m of a wind turbine, need to be considered within the Project area (OMNR 2011). The candidate bat maternity roost habitats that are within 120m of other Project components have been considered under generalized wildlife habitat in the EIS. Only four (4) of the candidate bat maternity roost habitats are located within 120m of proposed wind turbines. These four (4) woodlands, and their distances from Project components, are listed below:

- P001-W1 - within 54 m of turbine no. P001
- P108-W1 – within 76 m from the proposed turbine no. P120, 19 m to the access roads associated with turbine nos. P035 and P036, and 19 m to the access road associated with turbine no. P108.
- P118-W1 - 55 m from proposed turbine no. P118
- RB-A2 – within 90 m from the proposed turbine no. P040 and adjacent to a section of the transmission corridor from Charing Cross Road to Huffman Road,

An EIS is required for the significant bat maternity roosts that are within 120m of proposed wind turbines.

6.5.2 Rare Vegetation Communities and Specialized Wildlife Habitat

NRSI has reviewed the rare vegetation communities list within Appendix Q of the SWHTG, and can confirm that no alvars, cliff or talus slopes, sand barrens, or old growth forests are present within the Project area.

Tallgrass Prairie

Inclusions of tallgrass prairie (Dry Mixed Graminoid Tallgrass Prairie Type, MEGM1-4) were identified by NRSI biologists along the rail bed in three (3) locations within the RB-B communities (RB-1, RB-3, and RB-4). NRSI recommends that these inclusions not be considered rare vegetation communities, as per the SWH Ecoregion Criteria Schedules Addendum, which states that remnant populations along railway right-of-ways are not to be considered significant (OMNR 2000).

Savannahs

Three (3) savannah communities have been identified within the Project area, along the rail bed. RB-B is classified as a Fresh-Moist Mixed Savanna Ecosite (SVMM3), and RB-E and RB-F have been classified as White Birch / Poplar Deciduous Savanna Types (SVDM3-5). None of these savannah communities are tallgrass prairie savannahs, which may be considered significant. As a result, they are not discussed in further detail in this evaluation of significance.

Amphibian Breeding Habitat

Three (3) candidate amphibian breeding SWH were identified within the Project. These features include the presence of a wetland, lake or pond within or adjacent to (within 120 m) to a woodland.

Site-specific field investigations of these areas (P014-WE1, P108-W1, and P162-W1) in the spring of 2011, consisting of presence/absence surveys and habitat searches, did not identify any significant numbers of frogs, toads, salamanders or egg masses associated with any of these locations, as determined by the Significant Wildlife Habitat Technical Guide. Therefore, there is no indication that these vernal pools are being used by amphibians as significant breeding habitat. As such, NRSI recommends that these locations be considered not significant for amphibian breeding habitat.

6.5.3 Habitats of Species of Conservation Concern

Habitat for species of conservation concern (excluding Threatened and Endangered species), are generally focused on breeding habitats for sensitive species, and can include marsh bird breeding habitat, area sensitive breeding habitat, and open country or grassland breeding habitats.

Ten (10) candidate significant habitats of species of conservation concern associated with area sensitive bird breeding habitat (7) and open country bird breeding habitat (3) have been identified within the Project area and are described below

Table 11. Habitats of Species of Conservation Concern Evaluation of Significance Criteria

Habitat of Species of Conservation Concern	Standards of Significance
Area Sensitive Bird Breeding Habitat	- All mature (>60 years old) natural forest (non-plantation) stands 10 ha or greater in size assuming 100 m buffer at edge of forest. - Presence of nesting or breeding pairs of 3 or more of the listed wildlife species (yellow-bellied sapsucker (Sphyrapicus varius), red-breasted nuthatch (Sitta canadensis), veery (Catharus fuscescens), blue-headed vireo (Vireo solitarius), northern parula (Parula americana), black-throated green warbler (Dendroica virens), blackburnian warbler (Dendroica fusca), black-throated blue warbler (Dendroica caerulescens), ovenbird (Seiurus aurocapillus), scarlet tanager (Piranga olivacea), winter wren (Troglodytes troglodytes), Canada warbler (Wilsonia canadensis), pileated woodpecker (Dryocopus pileatus), cerulean warbler (Dendroica cerulea)) - Confirmation of cerulean warblers breeding
Open Country Bird Breeding Habitat	- Grassland areas (natural or cultural fields and meadows) greater than 30ha in size, not Class 1 or Class 2 agricultural lands, with

Habitat of Species of Conservation Concern	Standards of Significance
	no row-cropping in the last 5 years. - Abandoned field, mature hayfields, or pastures at least 5 years old, and used by grassland bird species which are sensitive to disturbance. - Presence of breeding individuals of 2 or more indicator species (grasshopper sparrow (Ammodramus savannarum), vesper sparrow (Pooecetes gramineus), or upland sandpiper (Bartramia longicauda), in addition to at least 1 common species (eastern kingbird (Tyrannus tyrannus), eastern meadowlark (Sturnella magna), northern harrier (Circus cyaneus), American kestrel (Falco sparverius). - Confirmation of short-eared owl (Asio flammeus) breeding within any field

Area Sensitive Bird Breeding Habitat

NRSI identified seven (7) candidate SWH for area sensitive bird breeding habitat, and include the following woodland communities:

- P014-W2
- P022-W1
- P042-W1
- P108-W1
- P139-W8
- P156-W1
- P162-W2

Two (2) of these locations (P042-W1 and P108-W1) have site-specific information already collected through previous studies as part of the EIS for proposed Harwich Wind Farm. Point count surveys were conducted during the breeding bird season of 2007. In order to confirm significance, studies must confirm the presence of nesting or breeding pairs of 3 or more of the species list in the SWHTG Criteria Schedules. Twenty-three (23) different bird species were observed during point count surveys that were conducted near woodland P042-W1; however none of the bird species that were observed are part of the list that is provided within the SWHTG Criteria Schedules. Similarly, seventeen (17) different bird species were observed during point count surveys that were conducted near woodland P108-W1, and none of the bird species that were observed are part of the list that is provided within the SWHTG Criteria Schedules.

As such, no significant habitat for area sensitive breeding birds is found within woodlands P042-W1 or P108-W1.

The five (5) remaining woodlands were not evaluated sufficiently in order to determine the significance of these habitats. However, according to Appendix D of the 2011 version of the Natural Heritage Assessment Guide, only area-sensitive bird breeding habitats that are overlapping with a project component need to be considered (OMNR 2011). The candidate area-sensitive bird breeding habitats that are within 120m of other Project components have been considered generalized wildlife habitat in the EIS. Only one (1) woodland, P022-W1, is overlapping with a Project component. As a result, it is possible that this one woodland is being utilized by area sensitive birds for breeding, and it has been treated as significant. The appropriate pre-construction habitat use monitoring that will be required for this habitat will be discussed in more detail within the EIS.

Open Country Bird Breeding Habitat

NRSI identified three (3) candidate SWH for open country bird breeding habitat. These include two (2) fallow fields and one (1) meadow (P053-W2).

One (1) fallow field is located north of the rail bed at the 7th Line, west of North Buxton and is shown on Figure 3-6. This field is Class 3 agricultural land; however it is only 2.6 ha in size. As such, NRSI recommends that this feature be considered not significant for open country bird breeding habitat as the criteria in the Ecoregion 7E Criteria Schedule states that grasslands 10 ha or larger in size would be considered significant.

There are two fields within the Project area which are greater than 10 ha in size and represent Class 3 agricultural land. One of these fields is a fallow agricultural field dominated by grasses and goldenrods. This field is located adjacent to Campbell Line on the north side (42.8 ha), and is shown on Figure 3-8. The entire field consists of both Class 2 and Class 3 agricultural land, however, the entire field is consistent in composition, and as such represents a habitat unit which is likely important for open country birds. This field is overlapping with the access road associated with turbine nos. P029 and P030. It is also located 37 m from turbine no. P029. As breeding bird surveys were not completed in this field, it is assumed that this field is considered significant. As such, NRSI recommends that this field be considered significant for open country bird breeding habitat. An EIS is required for these project components which are proposed within 120 m of this significant open country bird breeding habitat.

The second field is a meadow community (P053-W2) identified south of the rail bed, west of Fargo and is 14.3 ha in size. This community is also shown on Figure 3-7. Although not specifically confirmed within these fields, one indicator species, vesper sparrow (Pooecetes gramineus), and one rare open country bird species, were both confirmed during breeding bird surveys within the Project area through background review. Other common grassland species, including eastern kingbird (Tyrannus tyrannus), eastern meadowlark (Sternella magna), and American kestrel, were also confirmed within the Project area through previous studies. As a result, this habitat may be utilized by open country birds for breeding. However, according to Appendix D of the 2011 version of the Natural Heritage Assessment Guide, only open country bird breeding habitats that are overlapping with the Project location, or are within 120m of a wind turbine, need to be considered (OMNR 2011). The candidate open country bird breeding habitats that are within 120m of other Project components have been and have been addressed as generalized wildlife habitat in the EIS. P053-W2 is located immediately adjacent to a section of the proposed transmission corridor from Charing Cross Road to Huffman Road, and so it has been assumed significant for open country breeding birds, and has been addressed as generalized wildlife habitat in the EIS.

<u>Habitat for Species Ranked S1-S3</u>

Based on information from previous studies there is candidate habitat within the Project area for three (3) species of bats which have S-ranks of S1-S3.

Mammals

Three (3) species of bats were identified within some portions of the Project area including northern long-eared bat, tricolored bat, and eastern small-footed bat (Myotis leibii). All three species were identified during autumn migration, and are known to typically hibernate in caves or mines, none of which are known to exist within the Project area. All three bats will roost in human structures or small crevices, but the tricolored bat in particular will often roost in foliage of trees. Determining candidate SWH for all three bat species was based on a review of areas where bat monitoring from previously conducted studies had identified them. Within these areas, the natural features within 120 m of Project components were then evaluated based on a concentration of suitable habitat. As private human structures (e.g. old barns, houses etc.) are unlikely to be designated as significant wildlife habitat, all woodlands with snags were considered to provide candidate habitat for all three bat species. Specific location information for these three (3) s-ranked bat species was obtained through previous bat studies near the South Kent Project. Using this information, NRSI biologists determined that only the woodlands within the Project area that contain abundant amounts of large (>25cm dbh) snags, and are within 5 km of an s-ranked bat species observation, should be considered significant habitat for these species. The following thirty-nine (39) candidate habitats did not contain an abundant amount of large snags, and were therefore not considered significant habitat for s-ranked bat species:

- P001-W1
- P002-W2
- P004-W1
- P011-W1
- P014-WE1
- P014-W2 (P014-WE2)
- P017-W1
- P024-W1
- P024-W2
- P027-W1
- P029-W1
- P034-W1
- P053-W3
- P053-W4
- P054-W2 (P054-WE1)
- P055-W1
- P064-W1
- P065-W1

- P077-W1
- P082-W1
- P091-W2
- P091-W3
- P092-W2
- P111-W1
- P114-W1
- P118-W1
- P139-W1
- P139-W5
- P139-W6
- P139-W7
- P139-W9
- P156-W1
- P166-W1
- P166-W2
- CLA-W2
- Sections of the railbed community, including:
    - RB-A
    - RB-B
    - RB-E
    - RB-F

According to Appendix D of the 2011 version of the Natural Heritage Assessment Guide, only bat habitats that are overlapping with the Project area, or are within 120m of a wind turbine, need to be considered (OMNR 2011). Five (5) candidate habitats contained abundant snags, although they are not within 120m of turbines. These habitats include:

- P033-W1
- P065-W3
- P117-W1
- P162-W1
- P162-W2

The features that were considered significant habitat for s-ranked bats, due to their proximity to wind turbines and the abundant numbers of large snags, include the following nine (9) woodlands (including their distances from Project components):

- P022-W1 – in the proposed cabling associated with turbine no. P133.
- P042-W1 - within 112 m of proposed turbine no. P109 and its associated access road.
- P065-W2 – within 84 m to the east of the proposed turbine no. P065 and its associated access road.
- P091-W1 – within 112 m from the proposed turbine no. P091 and its associated access road.
- P092-W1 – within 77 m of the proposed turbine no. P092 and its associated access road.
- P102-W2 – overlapped by the proposed access road and cabling associated with turbine nos. P102 and P152.
- P108-W1 – within 76 m from the proposed turbine no. P120, 19 m to the access roads associated with turbine nos. P035 and P036, and 19 m to the access road associated with turbine no. P108.
- P111-WE1 – within 33 m of proposed turbine no. P111
- P173-W1 – within 78 m of proposed turbine no. P173

An EIS is required for Project components which occur within 120 m of these significant habitats for these bat species that are ranked S1-S3.

6.5.4 Animal Movement Corridors

Site-specific vegetation community mapping has identified four hundred and twenty seven (427) linear features within the Project. These features are generally very narrow treed hedgerows that were originally present to delineate field boundaries and provide protection from the wind, but also include vegetated riparian zones along drains and natural watercourses. All hedgerows and drain corridors within the Project area were initially considered candidate significant wildlife habitat however they rarely provide the width, length, continuity, or habitat complexity that would warrant significant consideration. Appendix Q of the SWHTG states that corridors that are at least 200 m in width should be considered significant, and corridors linking most significant wildlife habitats for target species are more significant. A review of the hedgerow features within the Project area indicates that no hedgerow features are recommended to be considered significant animal movement corridors. However, the characteristics of vegetated riparian corridors have been compared with the array of evaluation criteria specified by the SWHTG (OMNR 2000) and 2009 Addendum (OMNR 2009a) to assess potential significance of these natural features. As a result, NRSI has identified several movement corridors within the Project. Each of these SWH areas is discussed in more detail below.

The first and longest movement corridor is immediately adjacent to the entire length of proposed transmission line, identified as the Railbed (RB). This area follows portions of abandoned and lightly-used railway line, and is regularly treed along the entire length of the corridor. Several road crossings have segmented this vegetated corridor into several sections, but otherwise this habitat is continuous throughout the Project area. This feature is relatively narrow, with an average of vegetated width of 8 to 10 m on each side of the central rail line, but extends a length of at least 38 km with very few interruptions. Several signs of disturbance, specifically garbage dumping, are present throughout the length of this corridor particularly along the areas of abandoned railway. Based on the length, continuity, and habitat composition of this corridor, NRSI recommends that the entire length of the vegetated corridor along the railway line be considered a significant animal movement corridor. Several Project components overlap with the railway line (RB-A to RB-F) and are described in more detail in Section 6.2 above. An EIS is required for all Project components which are proposed within 120 m of this significant animal movement corridor.

NRSI biologists have noted several vegetated corridors associated with aquatic features throughout the Project area. These habitats range in full vegetated width from 2-20 m, and are represented by a wide range of vegetation types, including herbaceous, shrub, and tree species. These corridors have the potential to provide a variety of both aquatic and terrestrial habitat that is preferred by several wildlife species. Evaluation criteria found in Appendix Q of the SWHTG indicate that significant riparian corridors typically have at least 15 m of vegetation on each side of the aquatic feature. Few riparian corridors within the Project area meet this size criterion; however NRSI has noted several riparian corridors that are recommended to be considered significant based on a combination of width, length, habitat composition, expected wildlife species, and connectivity to Rondeau Bay habitats. NRSI has identified seven (7) riparian animal movement corridors that are recommended to be treated as significant wildlife habitat. These seven (7) movement corridors are described below:

P002-D2

This watercourse feature and natural riparian corridor is densely wooded along portions of its length, and it has direct connectivity to the aquatic habitats of Rondeau Bay. P002-D2 is crossed by the cabling associated with turbine no. P171, and with the section of cabling along Ed's Line, from Mull Road to Kent Bridge Road. As such, an EIS is required for these Project components which are proposed within 120 m of this significant animal movement corridor.

P069-D2

This watercourse and riparian corridor contains a wooded corridor of approximately 5-10 m of complex vegetation habitat on each side of this feature, and as such is recommended to be a significant animal movement corridor. P069-D2 is located within 75 m of the access road and cabling associated with proposed turbine no. P069. As such, an EIS is required for these Project components which are proposed within 120 m of this significant animal movement corridor.

P104-D2

This aquatic feature and natural riparian corridor is recommended to be an animal movement corridor. This aquatic feature has treed vegetation along both sides and has connectivity to the nearby Rondeau Bay. P104-D2 is crossed by sections of the cabling along New Scotland Line, from Kent Bridge Road to McKinlay Road. As such, an EIS is required for these Project components which are proposed in and within 120 m of this significant animal movement corridor.

P105-D1

This watercourse and natural riparian corridor is recommended to be an animal movement corridor. This corridor is treed along certain segments and it has direct connectivity to the habitats of Rondeau Bay. P105-D1 is crossed by sections of the cabling route along New Scotland Line, from Kent Bridge Road to McKinlay Road. As such, an EIS is required for these Project components which are proposed in and within 120 m of this significant animal movement corridor.

P114-D1

This long riparian corridor provides a wide wooded corridor along a natural watercourse. Available basemapping indicates the potential presence of aquatic SAR within this watercourse, and site investigations identified the presence of a dead rare snake on a road that segmented this movement corridor. Based on the length, complexity of habitats, and expected wildlife species, this animal movement corridor should be considered significant. P114-D1 is overlapping with the proposed access roads and cabling associated with turbine no. P075. As such, an EIS is required for these Project components which are proposed in this significant animal movement corridor.

P139-D1

This watercourse feature and natural riparian corridor is closely associated with small wooded habitats and thicket communities (P139-W3), and has direct connectivity with aquatic habitats of Rondeau Bay. As such, it is recommended to be an animal movement corridor. P139-D1 is crossed by the cabling route associated with proposed turbine no. P139. As such, an EIS is required for Project components which are proposed in and within 120 m of this significant animal movement corridor.

CLA-D2

This watercourse and riparian corridor is recommended to be an animal movement corridor. This natural feature is densely wooded on both sides of the aquatic habitat, and provides a wide movement corridor with connectivity to the movement corridor of the railway line. CLA-D2 is proposed to be crossed by the cabling route along Cundle Line, and along the transmission corridor from Charing Cross Road to Huffman Road. As such, an EIS is required for these Project components which are proposed in and within 120 m of this significant animal movement corridor.

Following a review of available information collected during the records review and site investigation, NRSI has identified a total of eight (8) animal movement corridors that are recommended to be considered significant within 120 m of the Project components of the Project. An EIS is required for all Project components which are proposed in and within 120 m of these significant animal movement corridors.

7.0 Evaluation of Significance Summary

A comprehensive analysis of natural features within the Project was conducted by NRSI biologists to determine their significance. This analysis combined the results of a records review and site-specific field investigations. Natural features identified were compared with guidance documents available from the MNR in order to determine the significance of all natural features, including their significance as woodlands (OMNR 2011), and significant wildlife habitat, including seasonal concentration areas, rare vegetation communities and specialized wildlife habitat, habitat of species of conservation concern, and animal movement corridors (OMNR 2000, 2009a).

The results of the evaluation of significance confirmed the importance of forty-nine (49) significant woodland features and six (6) significant wetland features within the Project area. NRSI biologists have also used previous studies in conjunction with site-specific investigations to identify several areas of significant wildlife habitat within the Project area, including seasonal concentration areas (4), habitat for species of conservation concern (2), habitat for species ranked S1-S3 (9), and animal movement corridors (8).

The presence of these significant natural features in proximity to each of the proposed Project components has been summarized in Tables 12a and 12b below. The impacts which may occur to these features, and how they will be mitigated, will be discussed in the report South Kent Wind Project: Environmental Impact Statement (Hatch 2011), which will be provided to the MNR for review.

Table 12a. Summary of Evaluation of Significance and Environmental Impact Statement Requirements for the Proposed Turbines within the Project Area

This table identifies the presence of specific significant natural features within 120m of each proposed turbine, as described in this report. These features include: woodlands (OMNR 2011); seasonal concentration areas, specialized wildlife habitat, habitat for species of conservation concern, and animal movement corridors (OMNR 2000, 2009a). An Environmental Impact Statement (EIS) is required where any significant natural feature is located within 120m of Project components, and will be completed in the report South Kent Wind Project: Environmental Impact Statement (Hatch 2011).

In the following table, the term 'in' has been attributed to proposed Project components that are located within a natural feature. Project components which are immediately adjacent to a natural feature are identified as being located <1 m from the natural feature. Project components adjacent to a natural feature are identified as being 1 m to 10 m from the natural feature. In most cases, the access roads have been attributed to individual proposed turbines.

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P001	P001-W1 (54 m from turbine)	No	Bat Maternity Roost P001-W1 (54 m from turbine)	No	No	No	Yes
P002	No	No	No	No	No	No	No
P003	No	No	No	No	No	No	No
P004	No	No	No	No	No	No	No
P005	No	No	No	No	No	No	No
P006	No	No	No	No	No	No	No
P007	No	No	No	No	No	No	No
P008	No	No	No	No	No	No	No
P009	No	No	No	No	No	No	No
P010	No	No	No	No	No	No	No
P012	RB-B1 (22m to cabling and access road)	No	No	No	No	RB-B1 (22m to cabling and access road)	Yes
P013	No	No	No	No	No	No	No
P014	No	P014-WE1 (immediately adjacent to access road/ cabling)	No	No	No	No	Yes
P016	No	No	No	No	No	No	No
P017	No	No	No	No	No	No	No
P018	No	No	No	No	No	No	No
P019	No	No	No	No	No	No	No
P020	No	No	No	No	No	No	No
P021	No	No	No	No	No	No	No

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P022	P022-W1 (in cabling)	No	No	No	Habitat for S-Ranked Bat Species P022-W1 (in cabling) Area Sensitive Bird Breeding Habitat P022-W1 (in cabling)	No	Yes
P023	No	No	No	No	No	No	No
P024	No	No	No	No	No	No	No
P026	No	No	No	No	No	No	No
P028	No	No	No	No	No	No	No
P029	No	No	No	No	Open Country Bird Breeding Habitat (in cabling/access road) (37 m from turbine)	No	Yes
P030	No	No	No	No	Open Country Bird Breeding Habitat (in cabling/access road)	No	Yes
P031	No	No	No	No	No	No	No
P032	No	No	No	No	No	No	No
P033	P033-W1 (adjacent to cabling/access road)	No	No	No	No	No	Yes
P034	RB-E3 (immediately adjacent to cabling)	No	No	No	No	RB-E3 (immediately adjacent to cabling)	Yes
P035	P108-W1 (16m to access road) (86m to turbine)	P108-WE1 (16m to access road) (86m to turbine)	Bat Maternity Roost P108-W1 P108-WE1 (16m to access road) (86m to turbine)	No	Habitat for S-Ranked Bat Species P108-W1 P108-WE1 (16m to access road) (86m to turbine)	No	Yes
P036	P108-W1 (16m to access road)	P108-WE1 (16m to access road)	Bat Maternity Roost P108-W1 P108-WE1 (16m to access road)	No	Habitat for S-Ranked Bat Species P108-W1 P108-WE1 (16m to access road)	No	Yes
P037	No	No	No	No	No	No	No
P038	No	No	No	No	No	No	No

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P039	No	No	No	No	No	No	No
P040	RB-A2 (90 m from turbine) RB-E4 (70 m from turbine)	No	Bat Maternity Roost RB-A2 (90 m from turbine)	No	No	RB-A2 (90 m from turbine) RB-E4 (70 m from turbine)	Yes
P041	No	No	No	No	No	No	No
P042	No	No	No	No	No	No	No
P044	No	No	No	No	No	No	No
P045	No	No	No	No	No	No	No
P046	No	No	No	No	No	No	No
P052	No	No	No	No	No	No	No
P053	P053-W3 (52 m from turbine) P053-W4 (30 m to access road/ cabling)	No	No	No	No	No	Yes
P054	No	No	No	No	No	No	No
P055	No	No	No	No	No	No	No
P056	No	No	No	No	No	No	No
P057	No	No	No	No	No	No	No
P058	No	No	No	No	No	No	No
P060	No	No	No	No	No	No	No
P061	No	No	No	No	No	No	No
P062	No	No	No	No	No	No	No
P063	No	No	No	No	No	No	No
P064	No	No	No	No	No	No	No
P065	P065-W1 (76 m from turbine and 73m from access road) P065-W2 (84 m from turbine and 81m from access road)	No	No	No	Habitat for S-Ranked Bat Species P065-W2 (84 m from turbine and 81m from access road)	No	Yes
P066	RB-F3 (immediately adjacent to cabling)	No	No	No	No	RB-F3 (immediately adjacent to cabling)	Yes
P067	RB-F3 (in cabling/38 m from turbine)	No	No	No	No	RB-F3 (in cabling/38 m from turbine)	Yes
P068	No	No	No	No	No	No	No
P069	No	No	No	No	No	P069-D2 (72 m to access road/ cabling)	Yes
P070	No	No	No	No	No	No	No
P071	No	No	No	No	No	No	No
P072	No	No	No	No	No	No	No
P073	No	No	No	No	No	No	No

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P074	No	No	No	No	No	No	No
P075	P114-W1 (in access road/ cabling) (58m to turbine)	No	No	No	No	P114-D1 (in access road/ cabling)	Yes
P077	P077-W1 (90m from turbine/in access road/ cabling)	No	No	No	No	No	Yes
P078	No	No	No	No	No	No	No
P079	No	No	No	No	No	No	No
P080	No	No	No	No	No	No	No
P081	No	No	No	No	No	No	No
P082	P082-W1 (adjacent to access road/ cabling)	No	No	No	No	No	Yes
P087	No	No	No	No	No	No	No
P091	No	No	No	No	Habitat for S-Ranked Bat Species P091-W1 (112 m to turbine and 109m to access road)	No	Yes
P092	No	No	No	No	Habitat for S-Ranked Bat Species P092-W1 (77 m to turbine and 74m to access road)	No	Yes
P093	No	No	No	No	No	No	No
P094	RB-F2 (in cabling)	No	No	No	No	RB-F2 (in cabling)	Yes
P095	No	No	No	No	No	No	No
P097	No	No	No	No	No	No	No
P098	No	No	No	No	No	No	No
P099	No	No	No	No	No	No	No
P100	No	No	No	No	No	No	No
P101	No	No	No	No	No	No	No
P102	No	No	No	No	Habitat for S-Ranked Bat Species P102-W2 (in access road/ cabling)	No	Yes
P104	No	No	No	No	No	No	No
P106	No	No	No	No	No	No	No
P107	No	No	No	No	No	No	No

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P108	P108-W1 (adjacent to cabling/access road)	P108-WE1 (adjacent to cabling/access road)	Bat Maternity Roost P108-W1 (adjacent to cabling/access road)	No	Habitat for S-Ranked Bat Species P108-W1 (adjacent to cabling/access road)	No	Yes
P109	P042-W1 (112 m to turbine and 109m to access road)	No	No	No	Habitat for S-Ranked Bat Species P042-W1 (112 m to turbine and 109m to access road)	No	Yes
P111	No	P111-WE1 (33 m to turbine)	No	No	Habitat for S-Ranked Bat Species P111-WE1 (33 m to turbine)	No	Yes
P113	No	No	No	No	No	No	No
P115	No	No	No	No	No	No	No
P116	No	No	No	No	No	No	No
P118	P118-W1 (55 m to turbine and 52m to access road)	No	Bat Maternity Roost P118-W1 (55 m to turbine and 52m to access road)	No	No	No	Yes
P120	P108-W1 (76 m to turbine)	No	Bat Maternity Roost P108-W1 (76 m to turbine)	No	Habitat for S-Ranked Bat Species P108-W1 (76 m to turbine)	No	Yes
P121	No	No	No	No	No	No	No
P122	No	No	No	No	No	No	No
P124	No	No	No	No	No	No	No
P125	RB-F3 (18 m to turbine)	No	No	No	No	RB-F3 (18 m to turbine)	Yes
P126	No	No	No	No	No	No	No
P132	No	No	No	No	No	No	No
P133	P022-W1 (in cabling)	No	No	No	Habitat for S-Ranked Bat Species P022-W1 (in cabling) Area Sensitive Bird Breeding Habitat P022-W1 (in cabling)	No	Yes

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P135	RB-A1 (immediately adjacent to cabling)	No	No	No	No	RB-A1 (immediately adjacent to cabling)	Yes
P138	No	No	No	No	No	No	No
P139	No	No	No	No	No	P139-D1 (in cabling)	Yes
P140	No	No	No	No	No	No	No
P145	No	No	No	No	No	No	No
P148	No	No	No	No	No	No	No
P149	No	No	No	No	No	No	No
P150	No	No	No	No	No	No	No
P152	No	No	No	No	Habitat for S-Ranked Bat Species P102-W2 (in access road/ cabling)	No	Yes
P154	No	No	No	No	No	No	No
P155	P024-W2 (78 m to turbine)	No	No	No	No	No	Yes
P156	P024-W1 (27 m to cabling/access road) P156-W1 (immediately adjacent to access road/ cabling) RB-A (107 m to access road/ cabling)	No	No	No	No	RB-A (107 m to access road/ cabling)	Yes
P161	No	No	No	No	No	No	No
P162	P162-W1 (17m to cabling) P162-W2 (14m to access road/cabling)	No	No	No	No	No	Yes
P163	No	No	No	No	No	No	No
P164	No	No	No	No	No	No	No
P166	P166-W1 (74 m to turbine)	No	No	No	No	No	Yes
P167	No	No	No	No	No	No	No
P168	P011-W1 (in access road/ cabling) RB-B (in cabling/immediately adjacent to access road/ cabling)	No	No	No	No	RB-B1 (in cabling/immediately adjacent to access road/ cabling)	Yes
P171	No	No	No	No	No	P002-D2 (in cabling)	Yes

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Proposed turbines							
P173	P173-W1 (78 m to turbine)	No	No	No	Habitat for S-Ranked Bat Species P173-W1 (78 m to turbine)	No	Yes
P174	No	No	No	No	No	No	No
P175	No	No	No	No	No	No	No
P176	No	No	No	No	No	No	No

Table 12b. Summary of Evaluation of Significance and Environmental Impact Statement Requirements for Other Project Components

This table identifies the presence of specific significant natural features within 120m of other Project components, as described in this report. These features include: woodlands (OMNR 2011); seasonal concentration areas, specialized wildlife habitat, habitat for species of conservation concern, and animal movement corridors (OMNR 2000, 2009a). An Environmental Impact Statement (EIS) is required where any significant natural feature is located within 120m of Project components, and will be completed in the report South Kent Wind Project: Environmental Impact Statement (Hatch 2011).

In the following table, the term 'in' has been attributed to proposed Project components that are located within a natural feature. Project components which are immediately adjacent to a natural feature are identified as being located <1 m from the natural feature. Project components adjacent to a natural feature are identified as being 1 m to 10 m from the natural feature. In most cases, the access roads have been attributed to individual proposed turbines.

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Cabling Route							
Gore Rd: Wheatley Rd to King & Whittle Rd	No	No	No	No	No	No	No
Davidson Rd: Gray Ln to Middle Ln	No	No	No	No	No	No	No
Oak Rd: Gray Ln to Pollard Ln	No	No	No	No	No	No	No
Middle Line & Valetta Road: Davidson Road to Pollard Line	P114-W1 (immediately adjacent)	No	No	No	No	P114-D1 (in)	Yes
Gleeson Line & Merlin Line: Pollard Line to Morris Line	RB-F3 (in)	No	No	No	No	RB-F3 (in)	Yes
Morris Ln: Pollard Ln to Cooper Rd	No	No	No	No	No	No	No
Merlin Rd/6th Line West: Morris Ln to P099	RB-F (adjacent)	No	No	No	No	RB-F (adjacent)	Yes
Finn Line/Merlin Road: Cooper Road to 8th Line	No	No	No	No	No	P069-D2 (in)	Yes
Port Road/8th Line: Cooper Rd to Merlin Rd	No	No	No	No	No	No	No
7th Ln W: Merlin Road to Hwy 401	No	No	No	No	No	No	No

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Wellwood Rd/10th Ln: 7th Ln to Bloomfield Rd	RB-A4 (adjacent)	No	No	No	No	RB-A4 (adjacent)	Yes
9th Ln: Bloomfield Rd to Charing Cross Rd	No	No	No	No	No	No	No
8th Ln: Dillon Rd to Bloomfield Rd	No	No	No	No	No	No	No
10th Ln: Bloomfield Rd to Charing Cross Rd	P111-W1 (immediately adjacent)	No	No	No	No	No	Yes
Gagner Ln/Lagoon Rd: Charing CX Rd to Rail Bed	P054-W1 (adjacent) P054-W2 (adjacent)	P054-WE1 (55m)	No	No	No	No	Yes
Lagoon Rd & Horton Ln: Charing Cross Rd to Fargo Rd	P055-W1 (immediately adjacent)	No	No	No	No	No	Yes
Fargo Rd: Horton Rd to the Rail Bed	RB-B (adjacent)	No	No	No	No	RB-B (adjacent)	Yes
Burk Ln: Mull Rd to Base Rd	No	No	No	No	No	No	No
Base Rd: Burk Ln to Rail Bed	P091-W2 (110 m)	No	No	No	No	No	Yes
Base Rd/Ridge Ln: Welch Ln to Kent Bridge Rd	P092-W2 (110m) P014-W2 (34m)	P014-WE2 (86m)	No	No	No	No	Yes
Welch Ln: P155 to Base Rd	P014-W2 (immediately adjacent)	P014-WE2 (adjacent)	No	No	No	No	Yes
Kent Bridge Rd: Ridge Ln to Front Ln	No	No	No	No	No	No	No
Mull Rd: Welch Ln to Brush Ln	P027-W1 (immediately adjacent)	No	No	No	No	No	Yes
Mull Rd: Brush Ln to Sinclair Ln	P139-W1 (immediately adjacent)	No	No	No	No	No	Yes
Mull Road/New Scotland Line: Sinclair Line to P171	No	Rondeau Bay North Shore PSW (90m)	No	No	No	P139-D1 (in) P002-D2 (in)	Yes
Ed's Ln: Mull Rd to Kent Bridge Rd	P002-W1 (immediately adjacent) P002-W2 (immediately adjacent) P004-W1 (immediately adjacent)	No	No	No	No	P002-D2 (in)	Yes

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Kent Bridge Rd: Ed's Ln to New Scotland Ln	No	No	No	No	No	No	No
New Scotland Line: Kent Bridge Rd to McKinlay Rd	No	No	No	No	No	P105-D1 (in) P104-D2 (in)	Yes
Cundle Ln: Fargo Rd to P038	CLA-W2 (in)	No	No	No	No	CLA-D2 (in)	Yes
Burk Ln: Huffman Rd to P034	P034-W1 (immediately adjacent)	No	No	No	No	No	Yes
Burk Ln: Harwich Rd to P031	No	No	No	No	No	No	No
Harwich Rd: Rail Bed to P026	No	No	No	No	No	No	No
Campbell Ln: Mull Rd to Harwich Rd	P029-W1 (immediately adjacent)	No	No	No	No	No	Yes
Harwich Rd: Campbell Ln to Stefina Ln	P030-W2 (adjacent)	No	No	No	No	No	Yes
Talbot Trail: Communication Rd to Mull Rd	P139-W5 (adjacent) P139-W6 (adjacent) P139-W7 (adjacent) P139-W8 (adjacent) P139-W9 (adjacent)	No	No	No	No	No	Yes
Substations							
Railbed Substation	RB-F3 (adjacent)	No	No	No	No	RB-F3 (adjacent)	Yes
Sattern Substation	RB-E2 (immediately adjacent)	No	No	No	No	RB-E2 (immediately adjacent)	Yes
Transmission Corridor							
RSS to Dillon Rd	RB-F3 (adjacent) RB-A5 (adjacent) P065-W1 (14m) P065-W3 (12m)	No	No	No	No	RB-F3 (adjacent) RB-A5 (adjacent)	Yes

Project Component	Woodlands	Wetlands	Significant Wildlife Habitat				EIS Required
			Seasonal Concentration Areas	Rare Vegetation Communities and Specialized Wildlife Habitat	Habitats of Species of Conservation Concern	Animal Movement Corridors	
Dillon Rd to Charing Cross Rd	RB-F2 (adjacent) RB-A4 (adjacent) RB-F1 (adjacent) RB-A3 (adjacent) RB-B4 (adjacent) P117-W1 (adjacent)	No	No	No	No	RB-F2 (adjacent) RB-A4 (adjacent) RB-F1 (adjacent) RB-A3 (adjacent) RB-B4 (adjacent)	Yes
Charing Cross Rd to Huffman Rd	RB-B4 (adjacent) RB-E5 (adjacent) RB-B3 (adjacent) RB-D2 (adjacent) RB-E4 (adjacent) RB-A2 (adjacent) CLA-W2 (14m)	No	Bat Maternity Roost RB-A2 (adjacent)	No	No	CLA-D2 (in) RB-B4 (adjacent) RB-E5 (adjacent) RB-B3 (adjacent) RB-D2 (adjacent) RB-E4 (adjacent) RB-A2 (adjacent)	Yes
Fargo Rd: Hwy 401 to the Chatham Transformer Station	No	No	No	No	No	No	No
Huffman Rd to SSS	RB-E3 (adjacent) RB-A1 (adjacent) RB-D1 (adjacent) RB-E2 (adjacent) P024-W2 (adjacent)	No	No	No	No	RB-E3 (adjacent) RB-A1(adjacent) RB-D1(adjacent) RB-E2 (adjacent)	Yes

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Personal Communication

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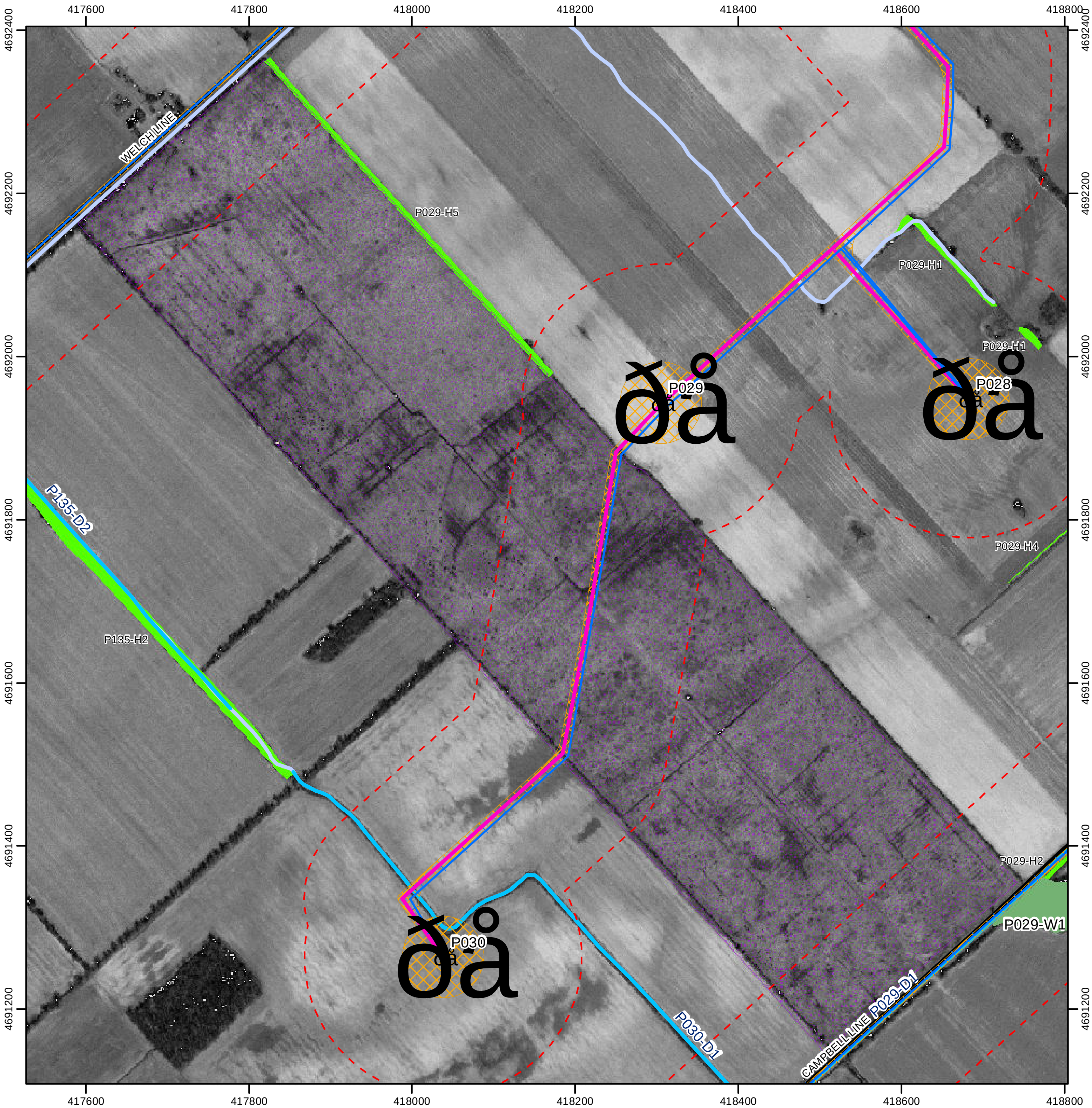
Appendix I
Significant Natural Features Maps



South Kent Wind Project

Open Country Bird Breeding Habitat

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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South Kent Wind Project

CLA-W2

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
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- Road
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- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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South Kent Wind Project

P001-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
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- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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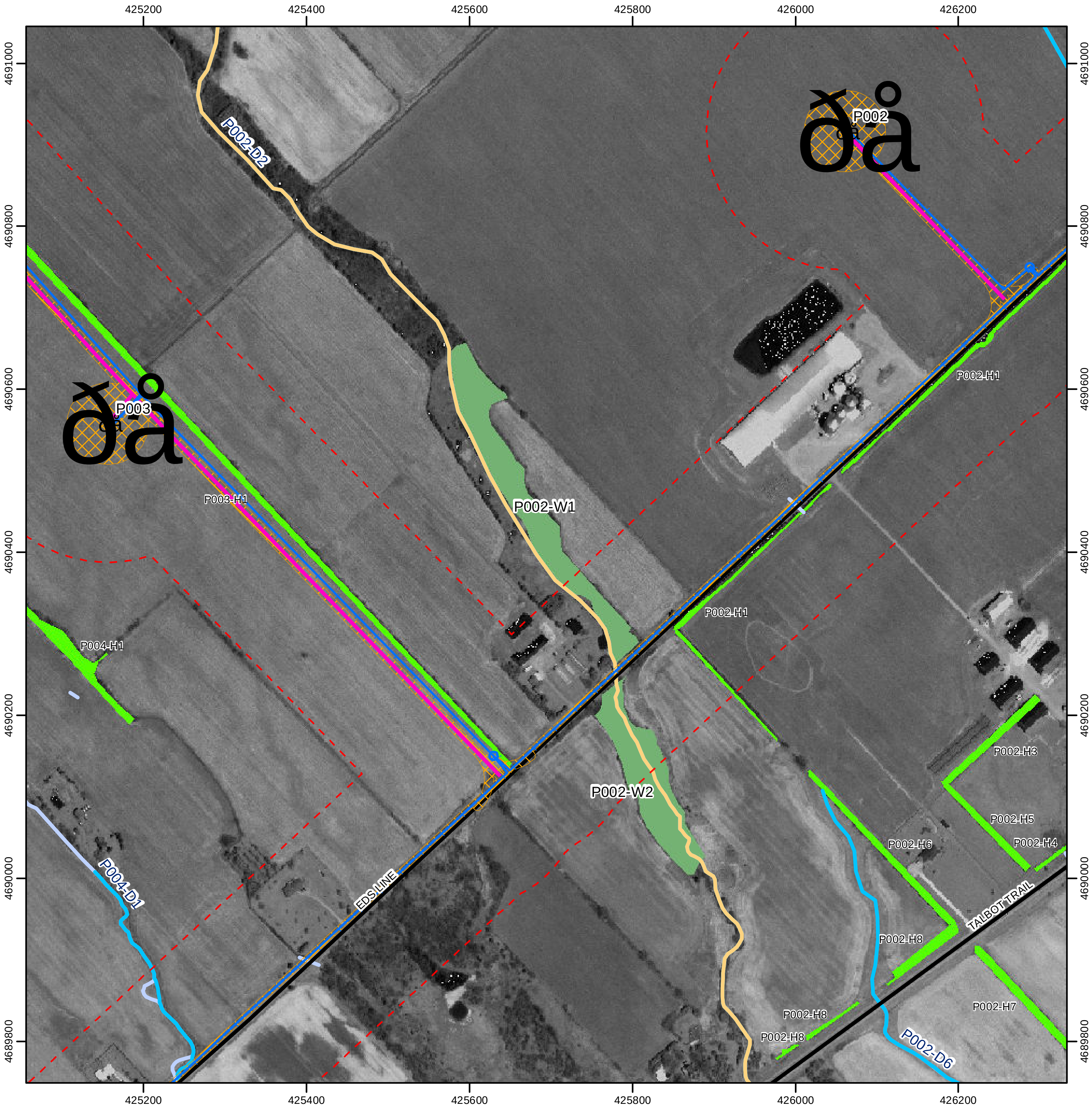

South Kent Wind Project

P002-W1, P002-W2

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

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- Hedgerow
- Woodland (NRSI)
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Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
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Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

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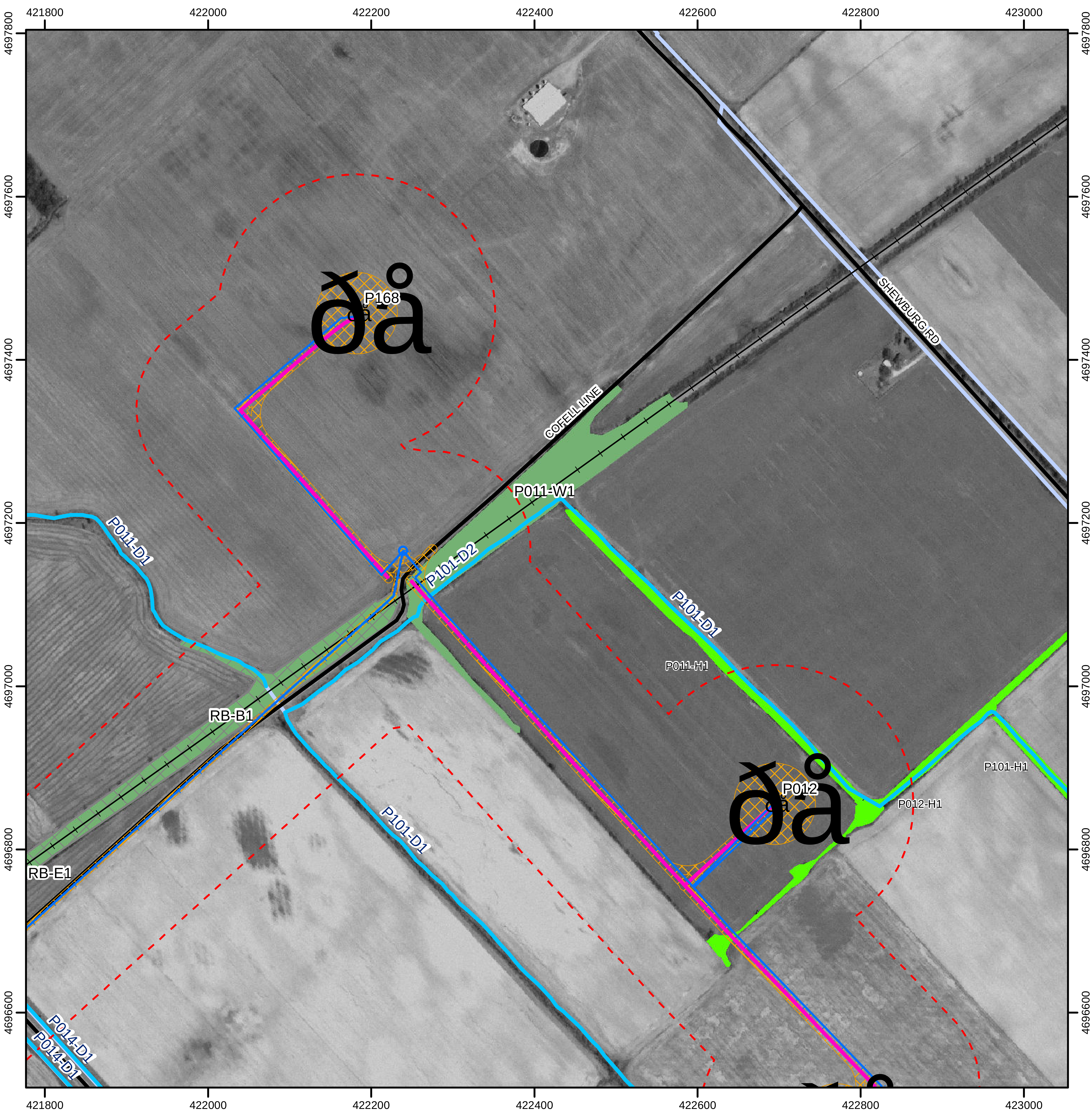

South Kent Wind Project

P011-W1

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
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- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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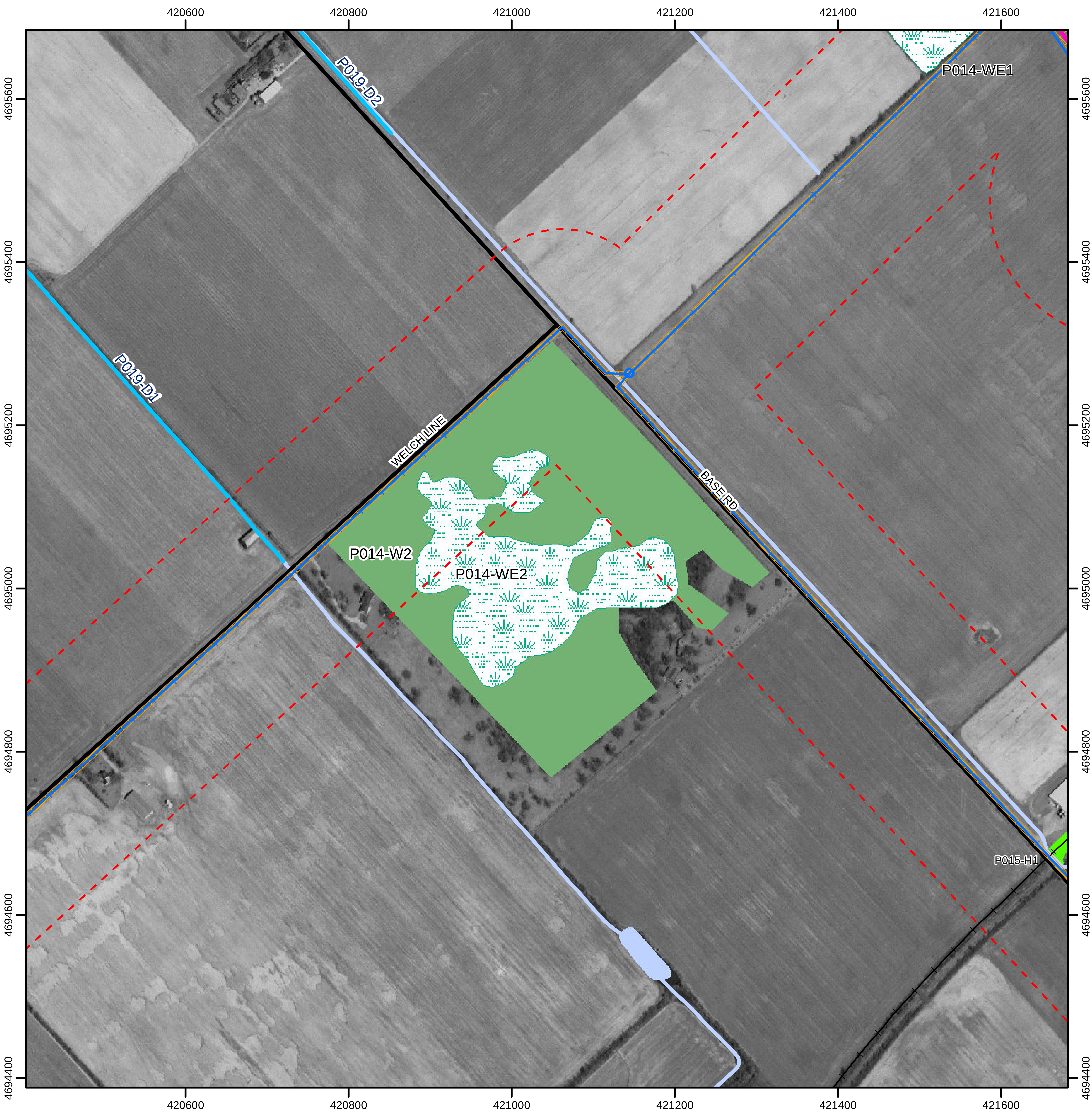

South Kent Wind Project

P014-W2

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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South Kent Wind Project

P014-WE1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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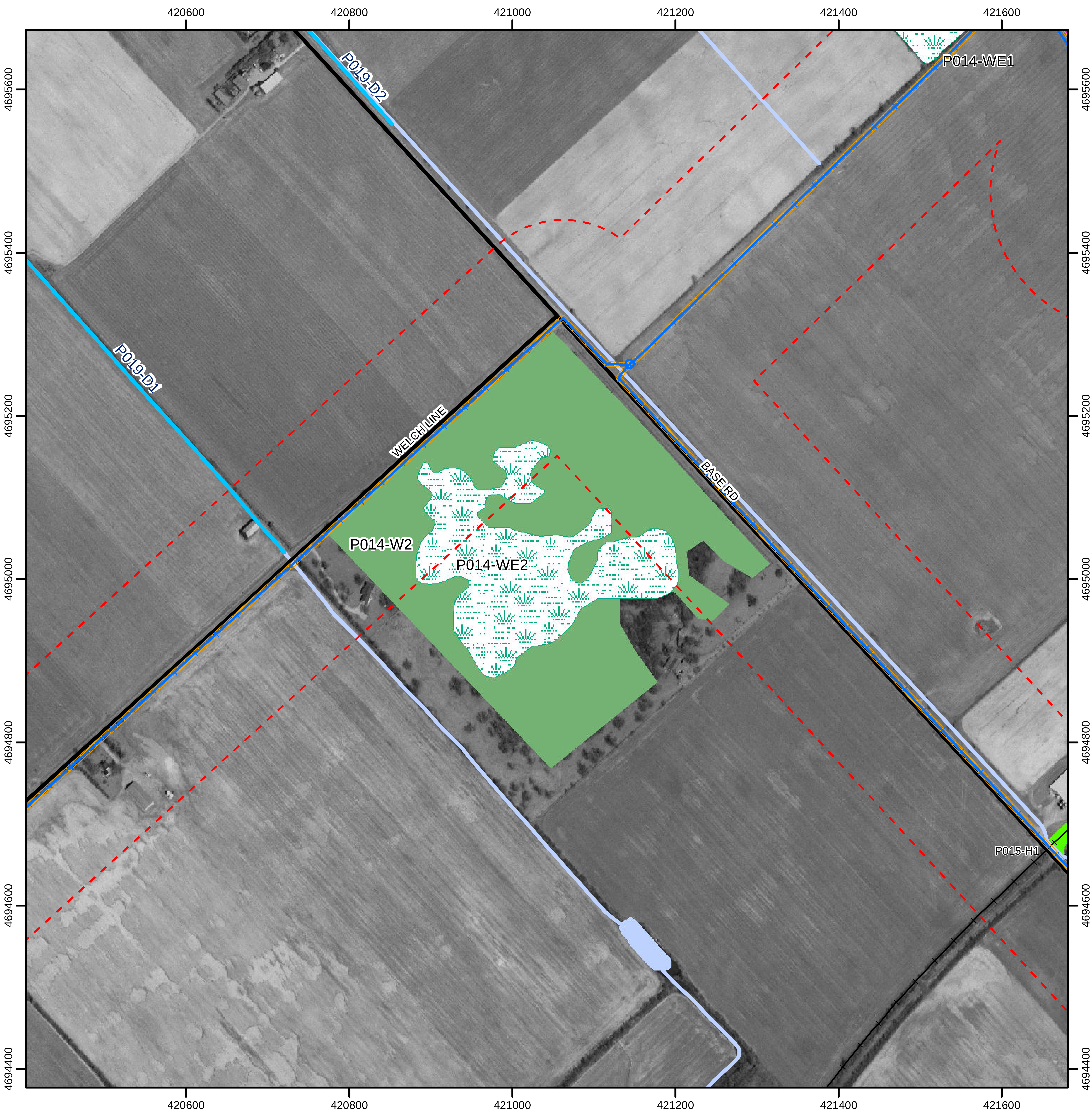

South Kent Wind Project

P014-WE2

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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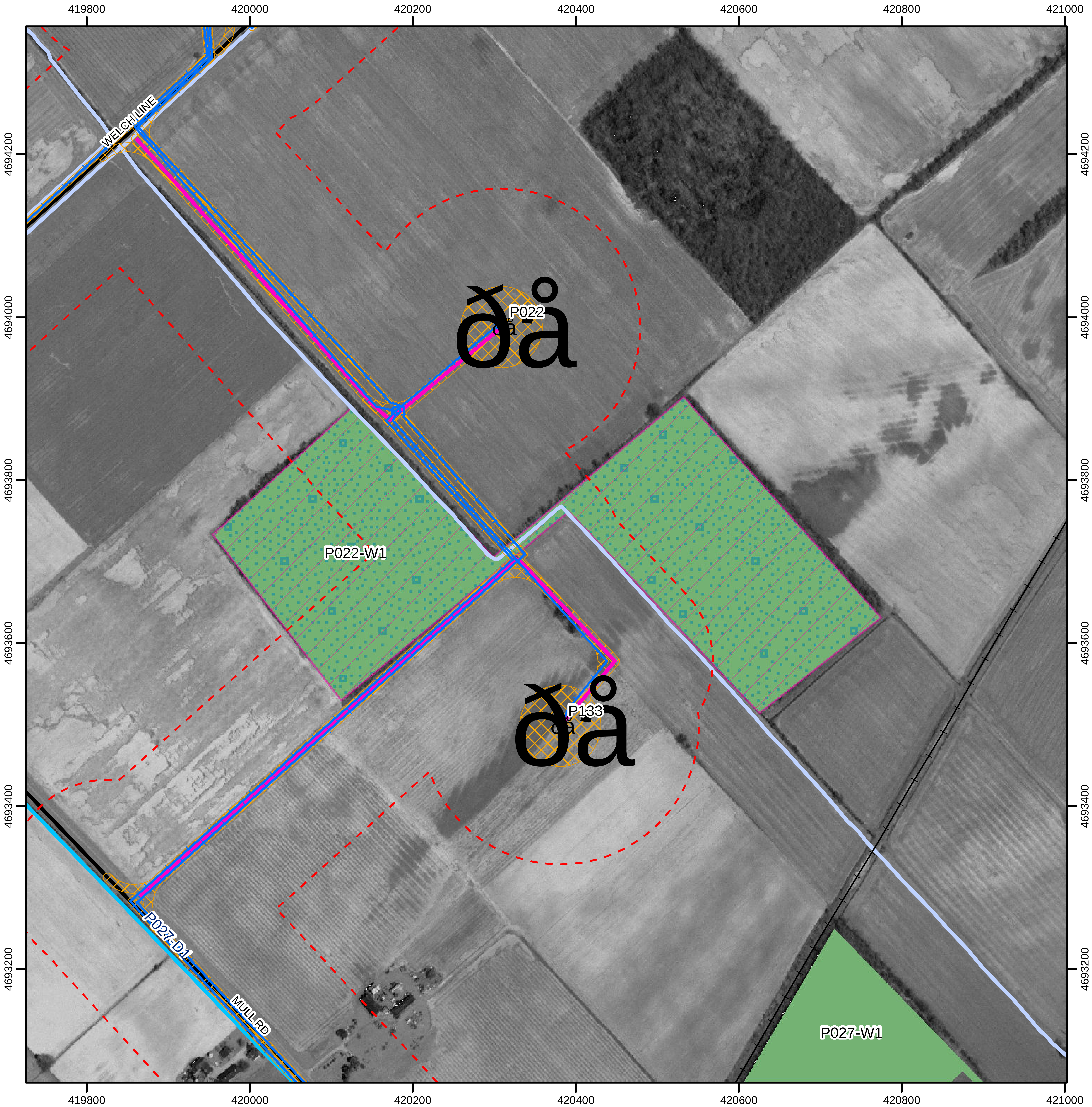


South Kent Wind Project

P022-W1

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P024-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P024-W2

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P027-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

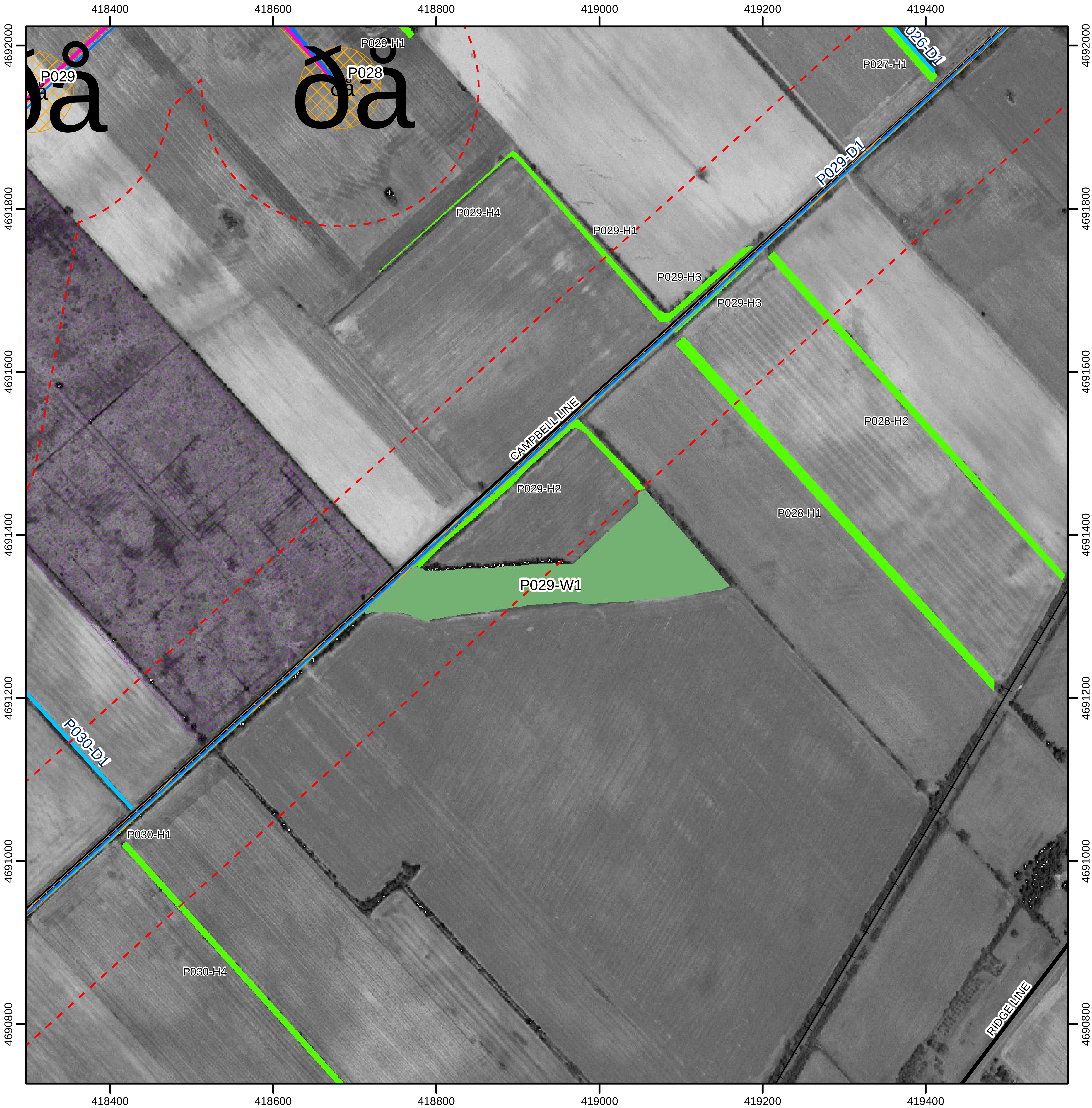
- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor



South Kent Wind Project

P029-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
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- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

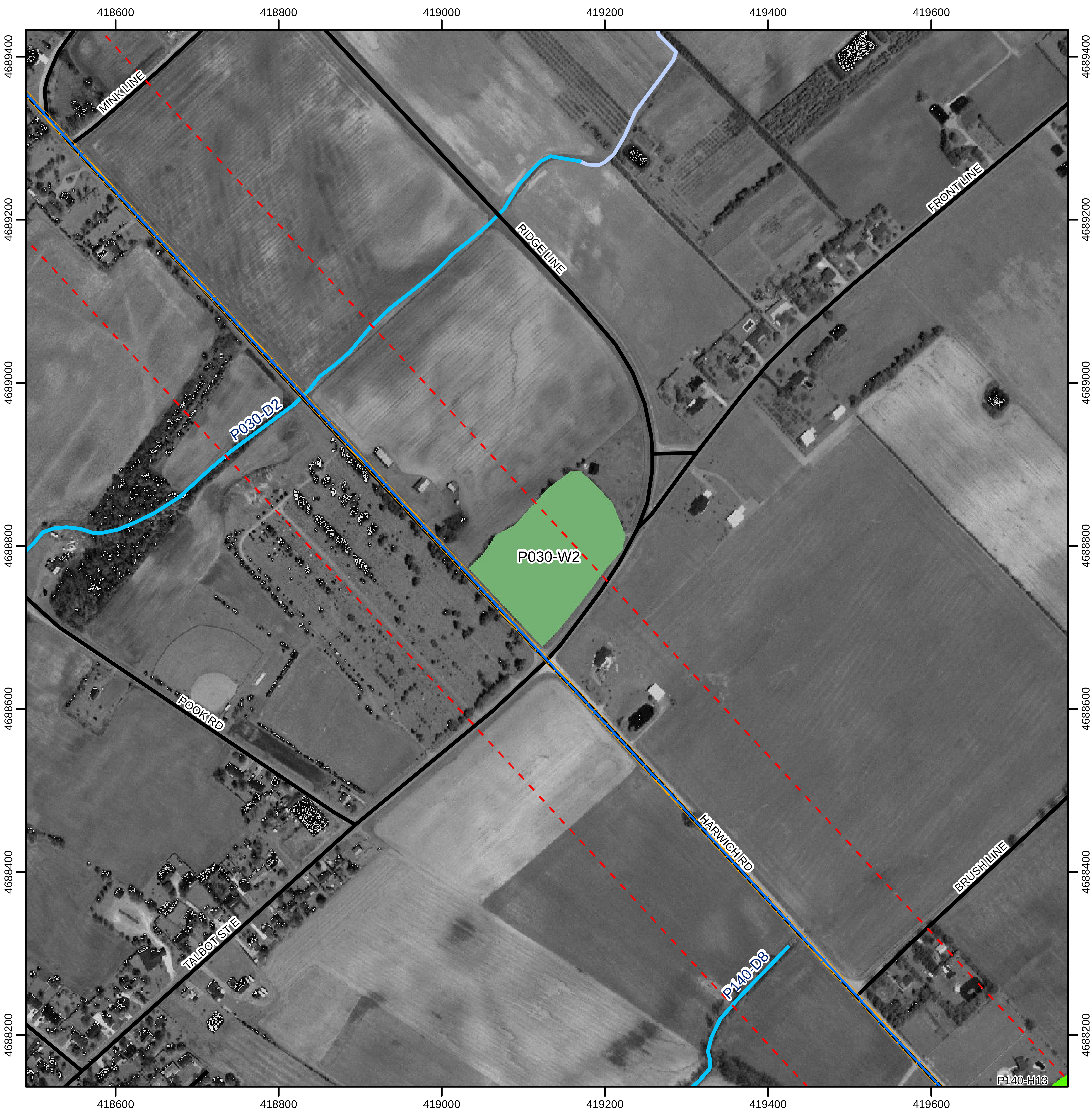
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P030-W2

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
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- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

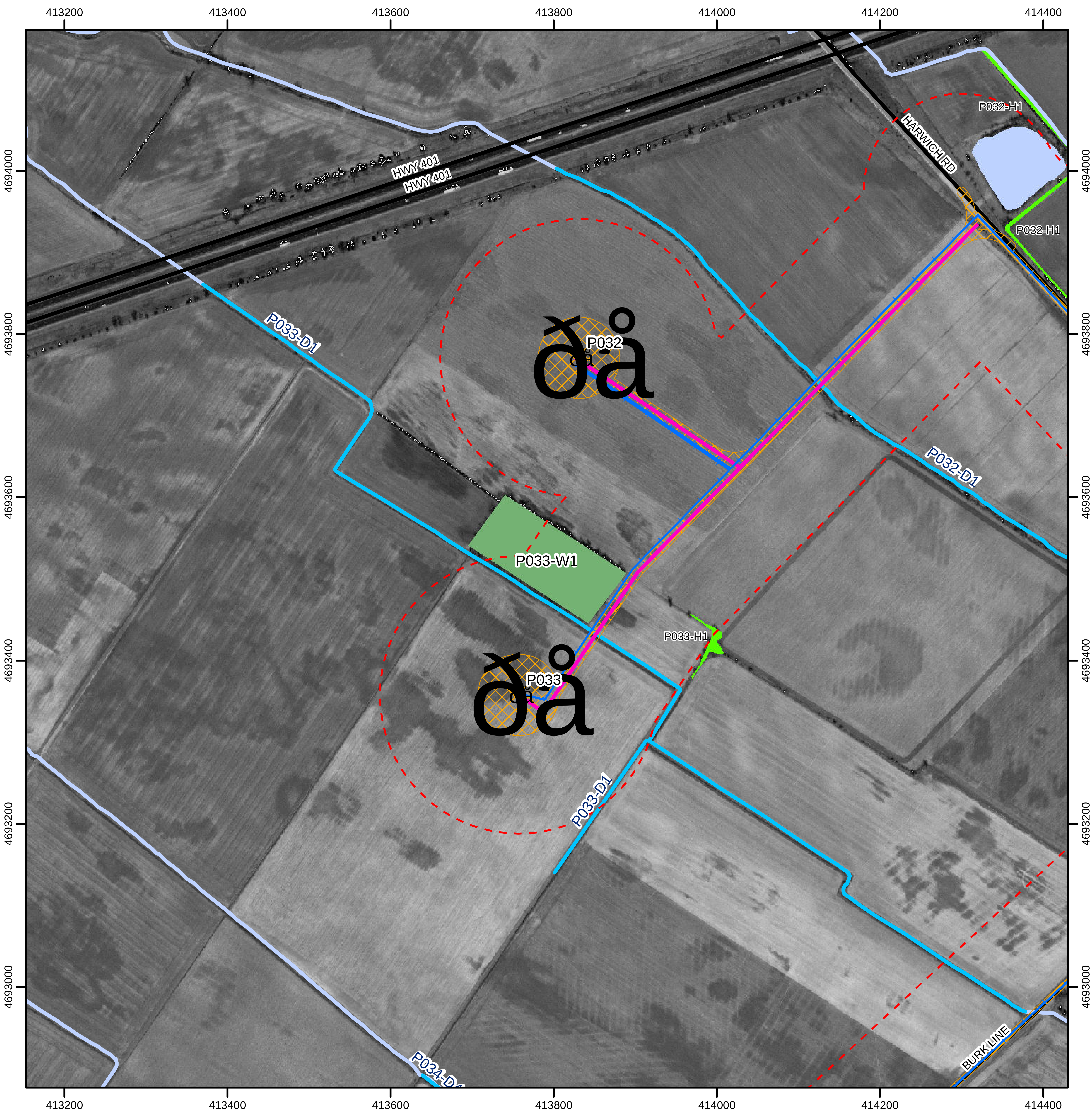
- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor



South Kent Wind Project

P033-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P034-W1

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P042-W1

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P053-W3, P053-W4

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

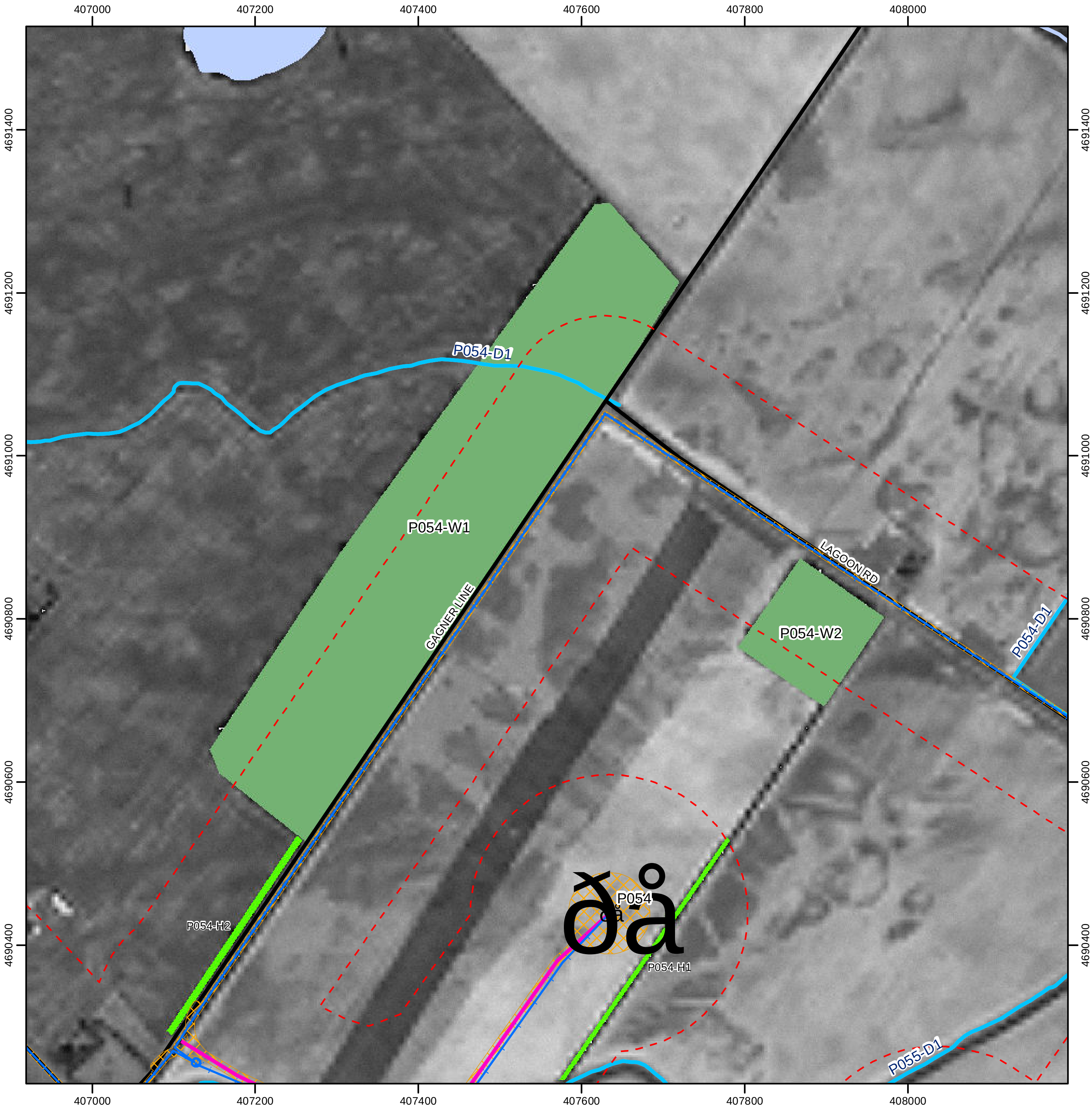
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P054-W1, W2

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P055-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P065-W1, P065-W2, P065-W3

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend
- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas
- Bat Maternity Roost

Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P077-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

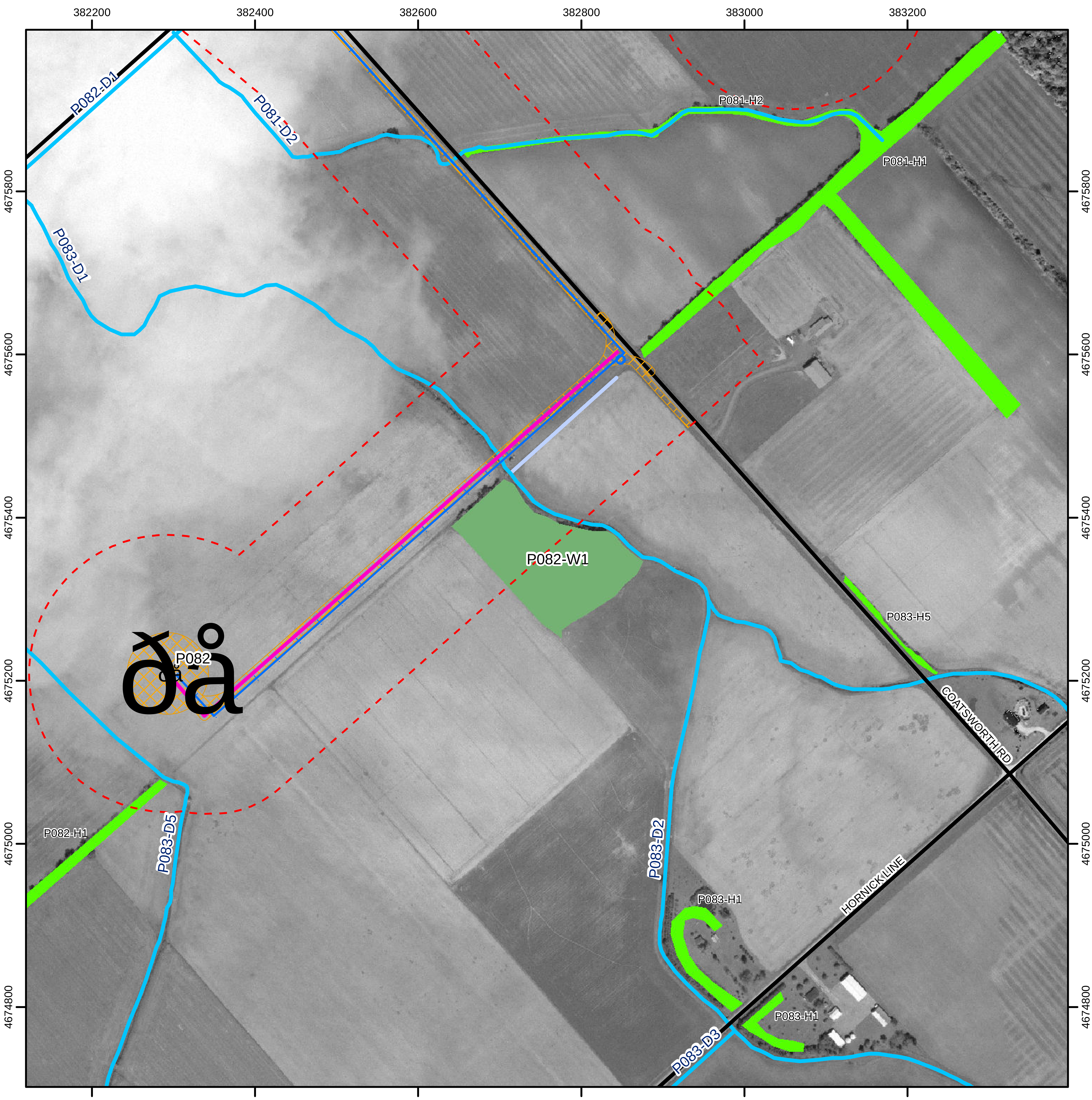
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P082-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

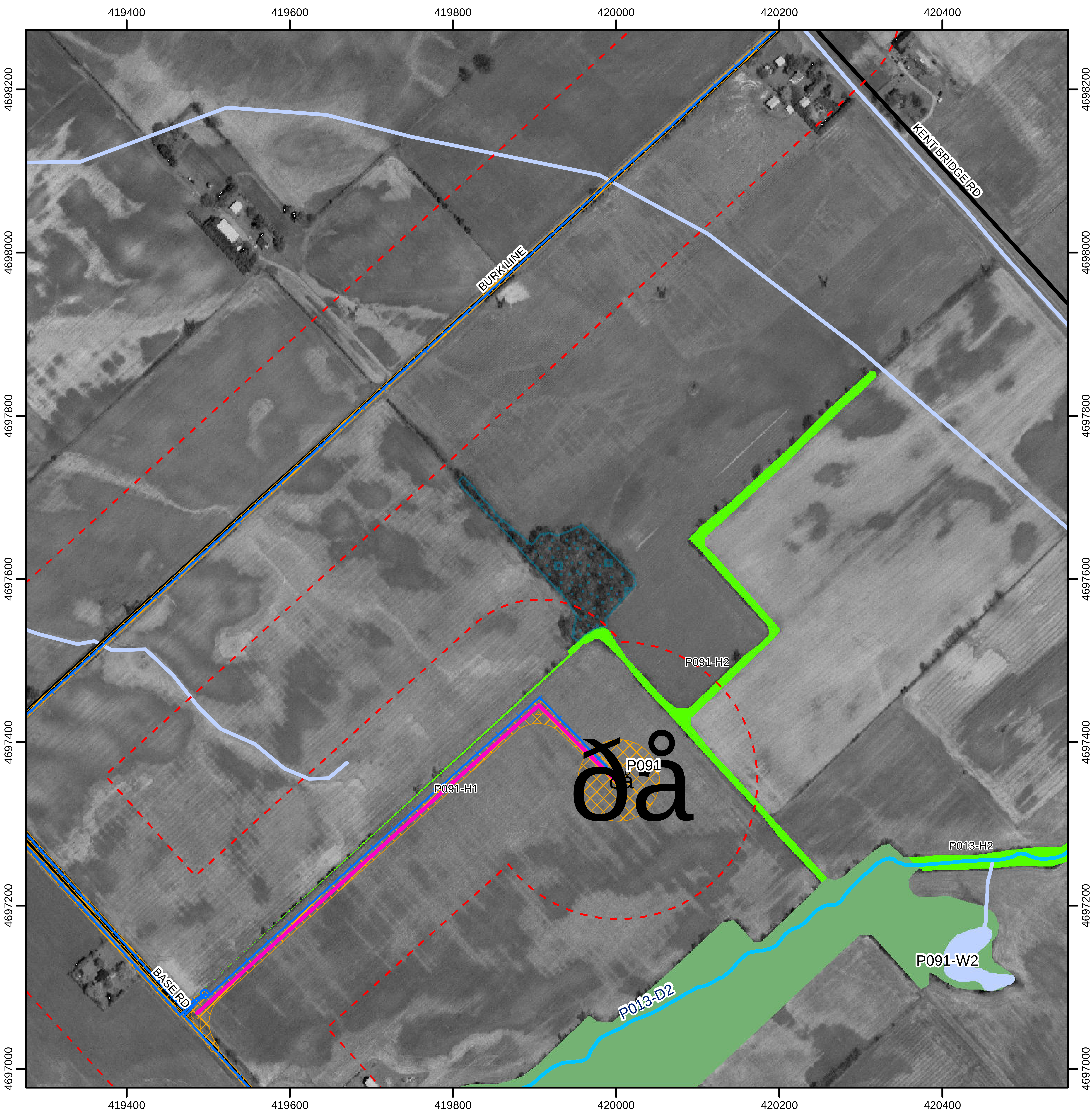
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P091-W1

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
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- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

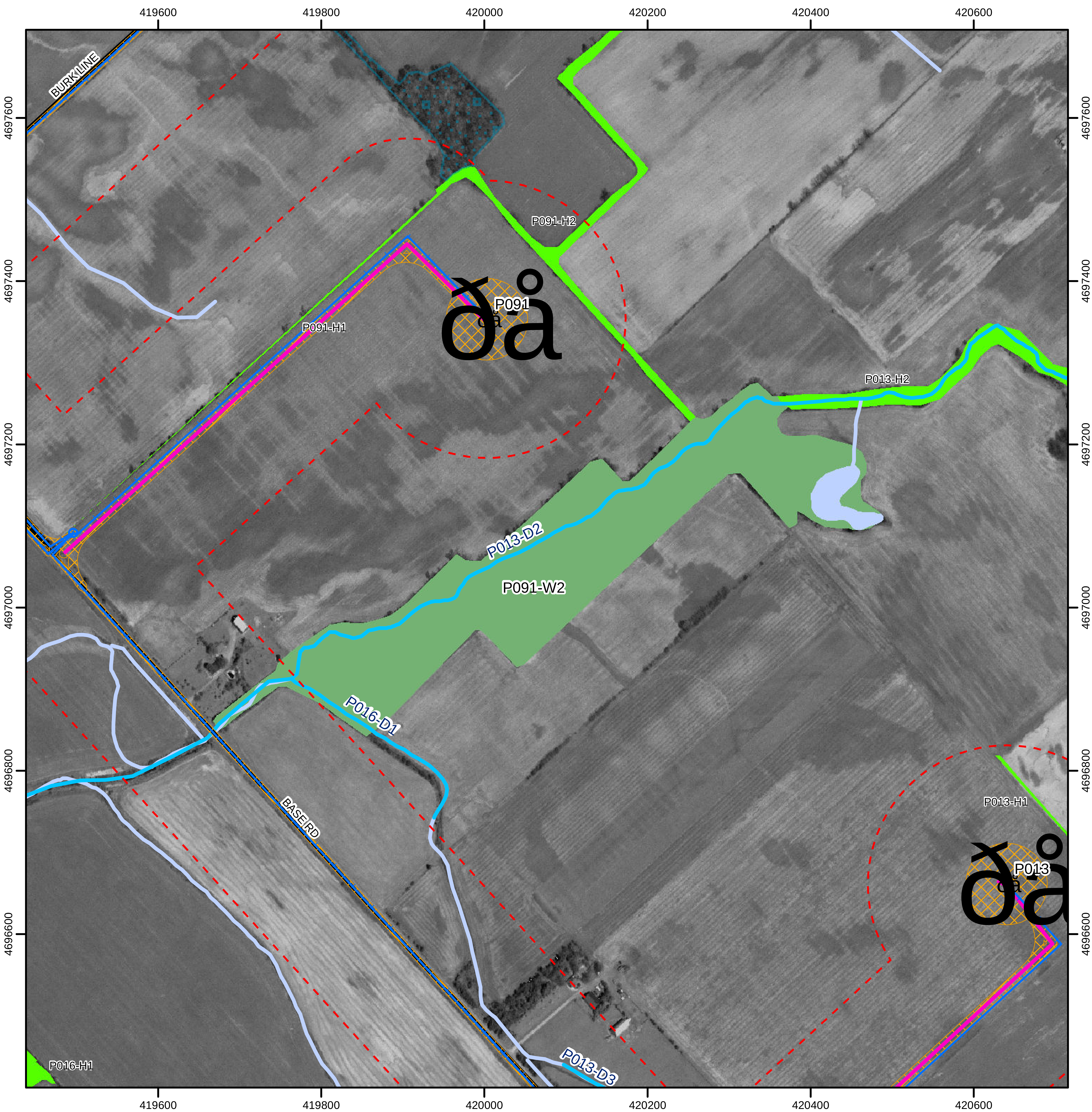
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P091-W2

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

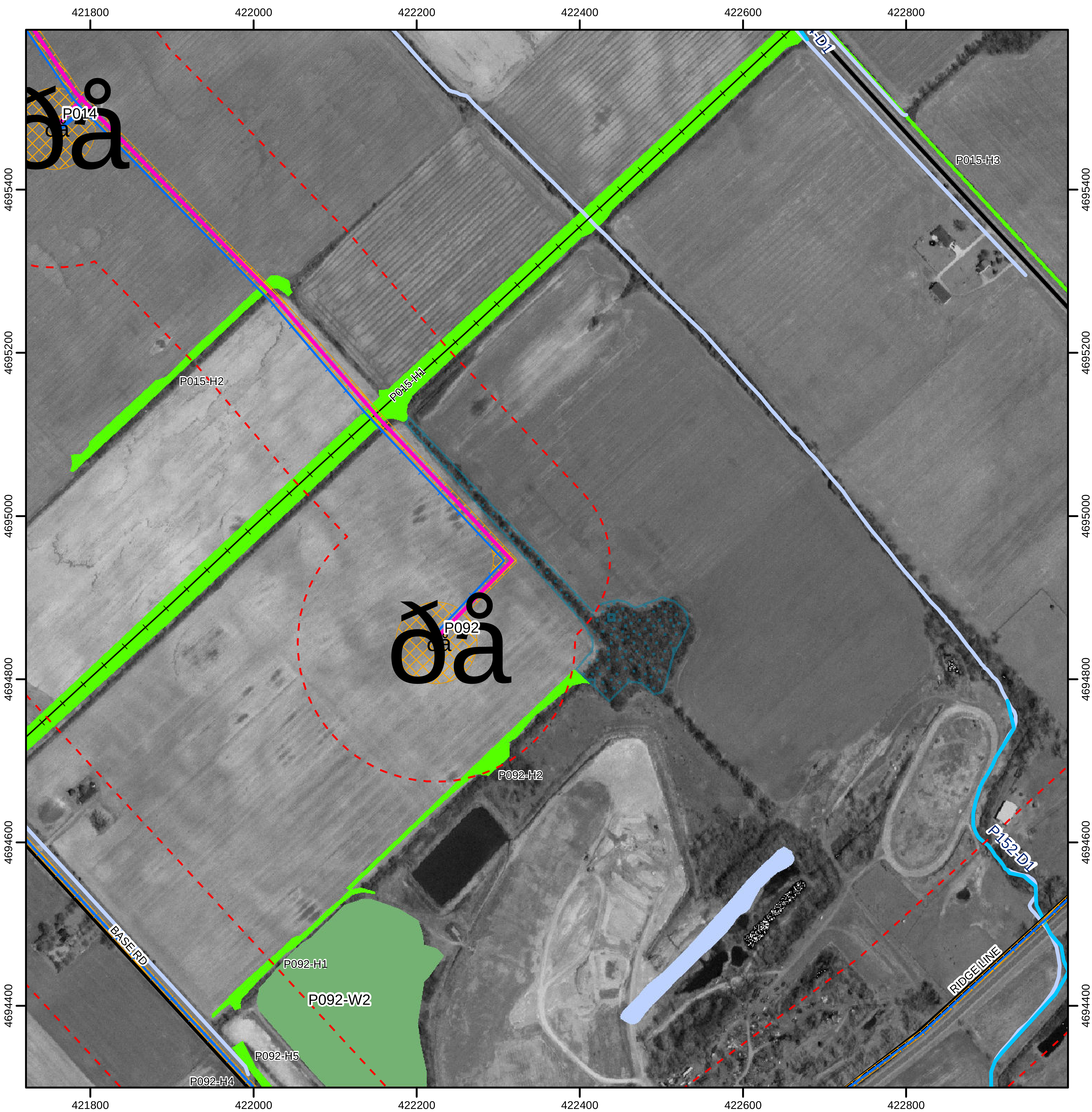
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P092-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
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- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

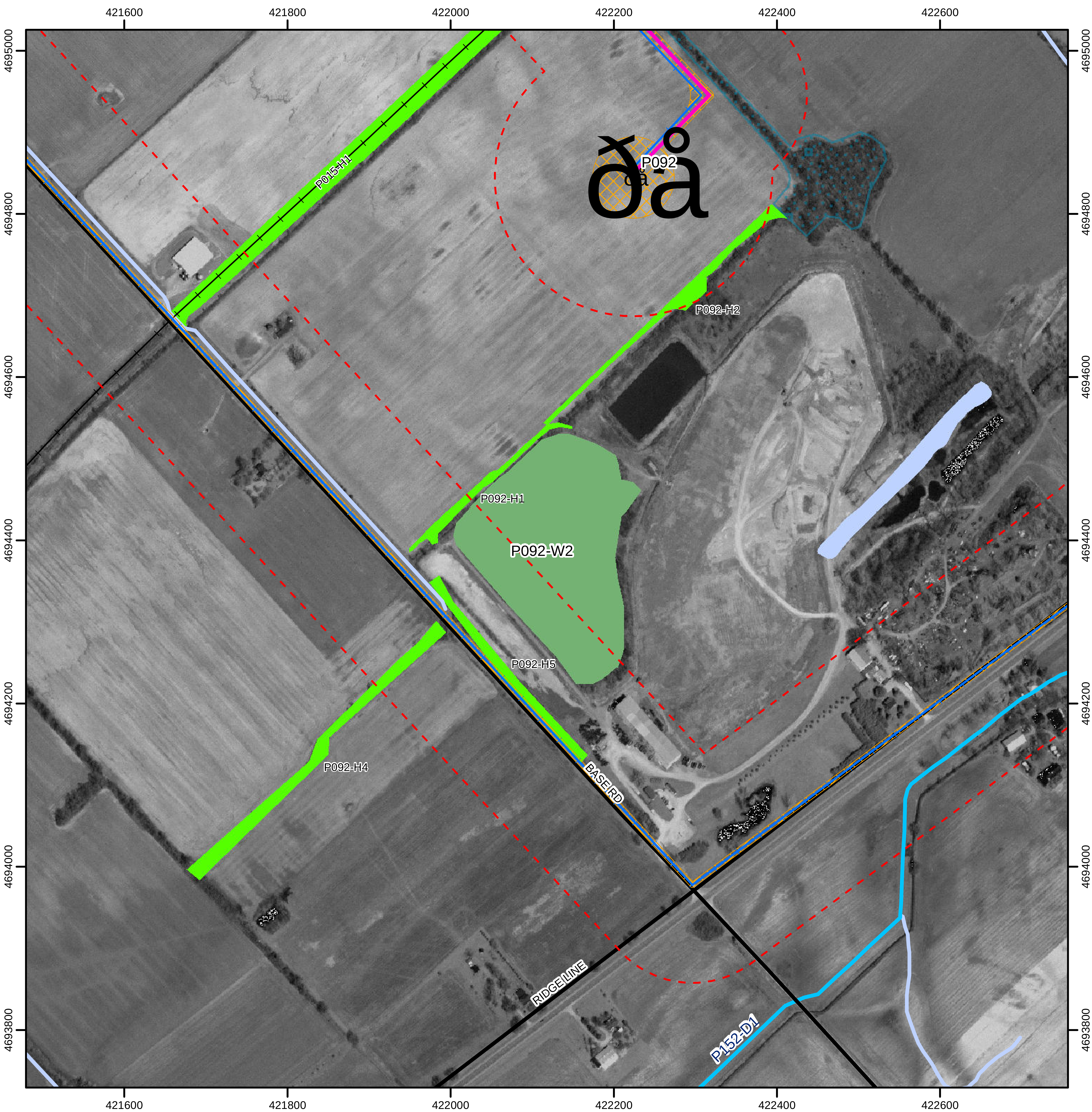
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P092-W2

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

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Legend

- Project Area (April 20th, 2012)
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- Woodland (NRSI)
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Seasonal Concentration Areas

- Bat Maternity Roost

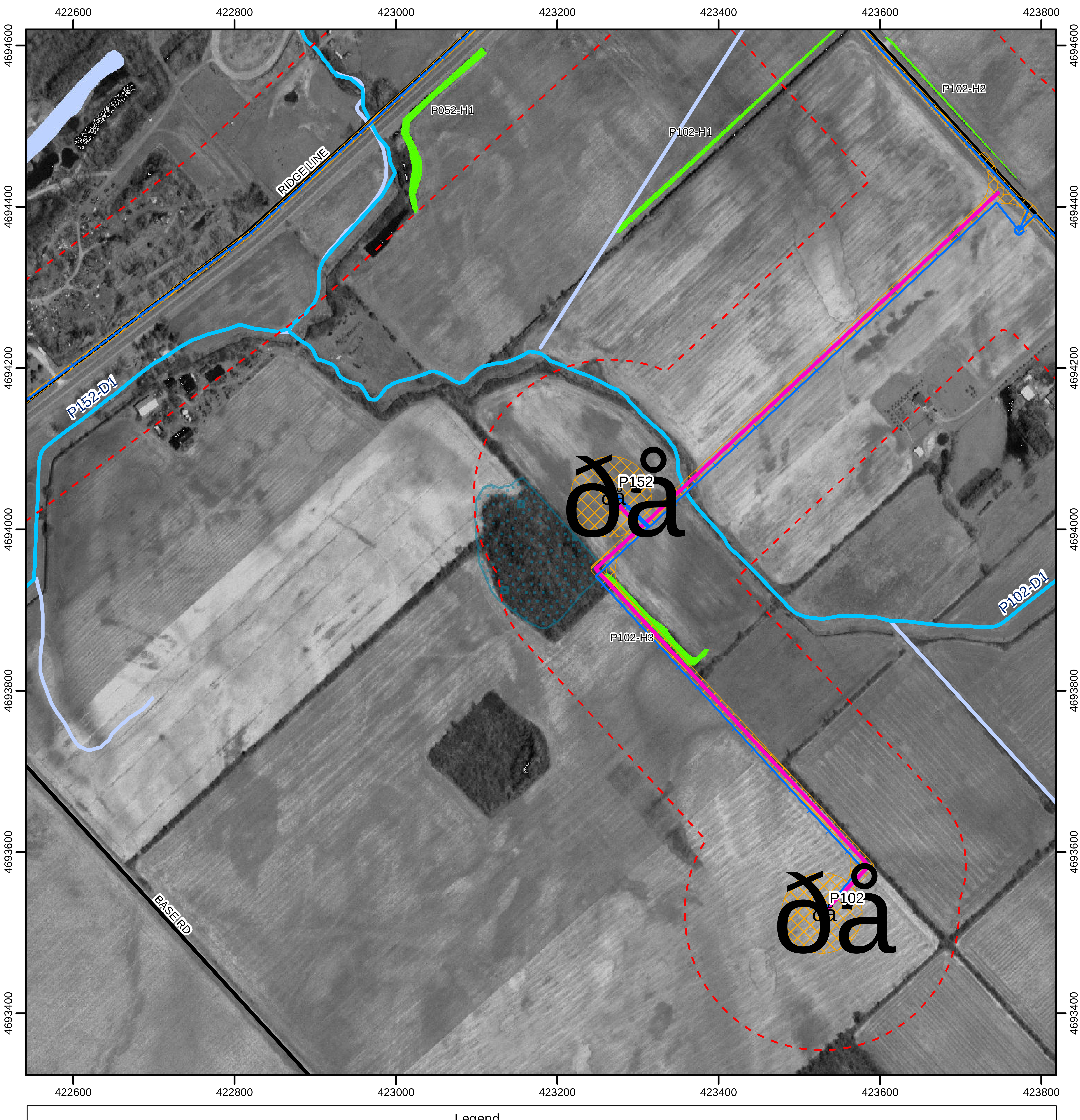
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P102-W2

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend
- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
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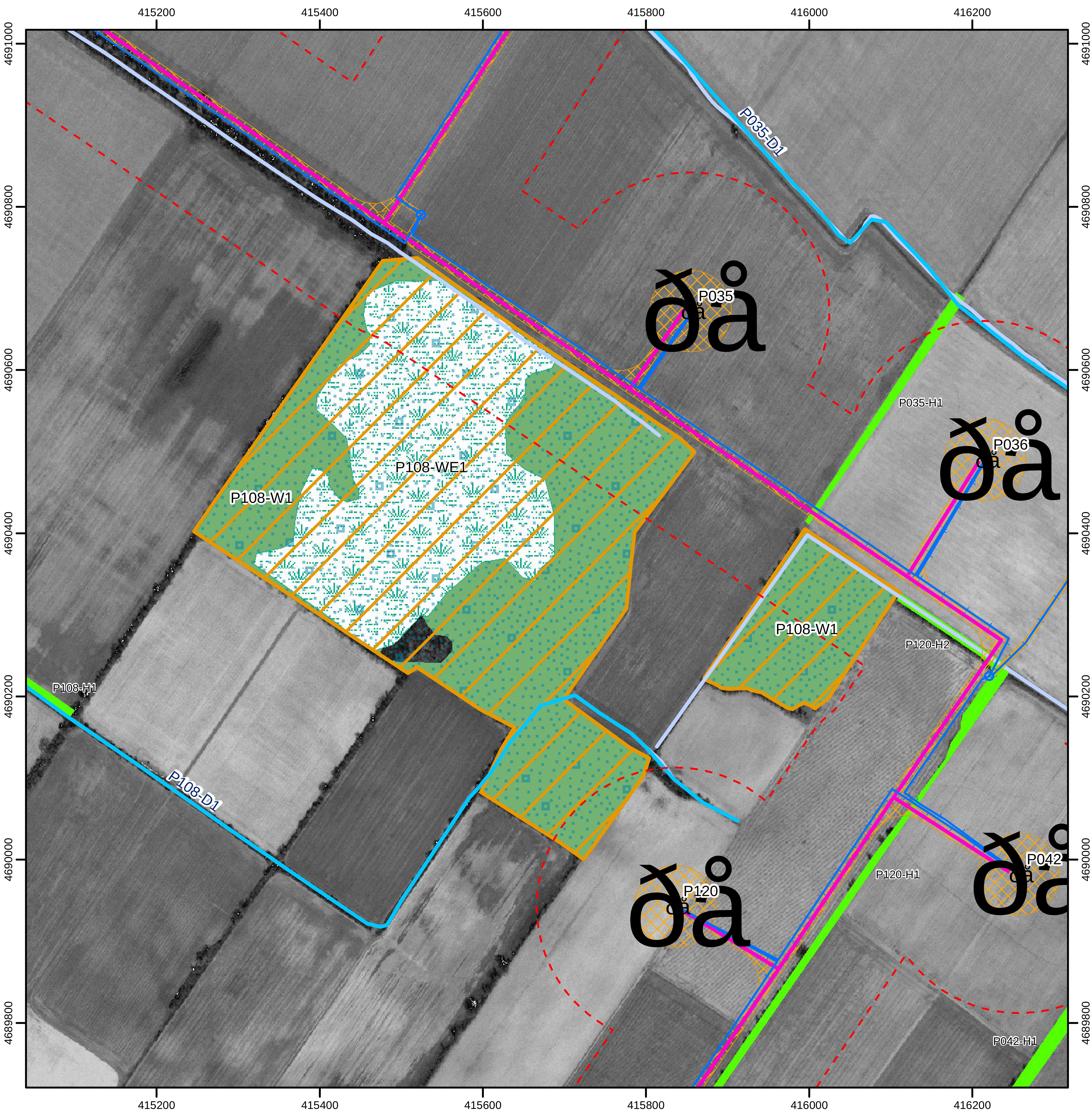
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas
- Bat Maternity Roost

Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor



South Kent Wind Project

P108-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

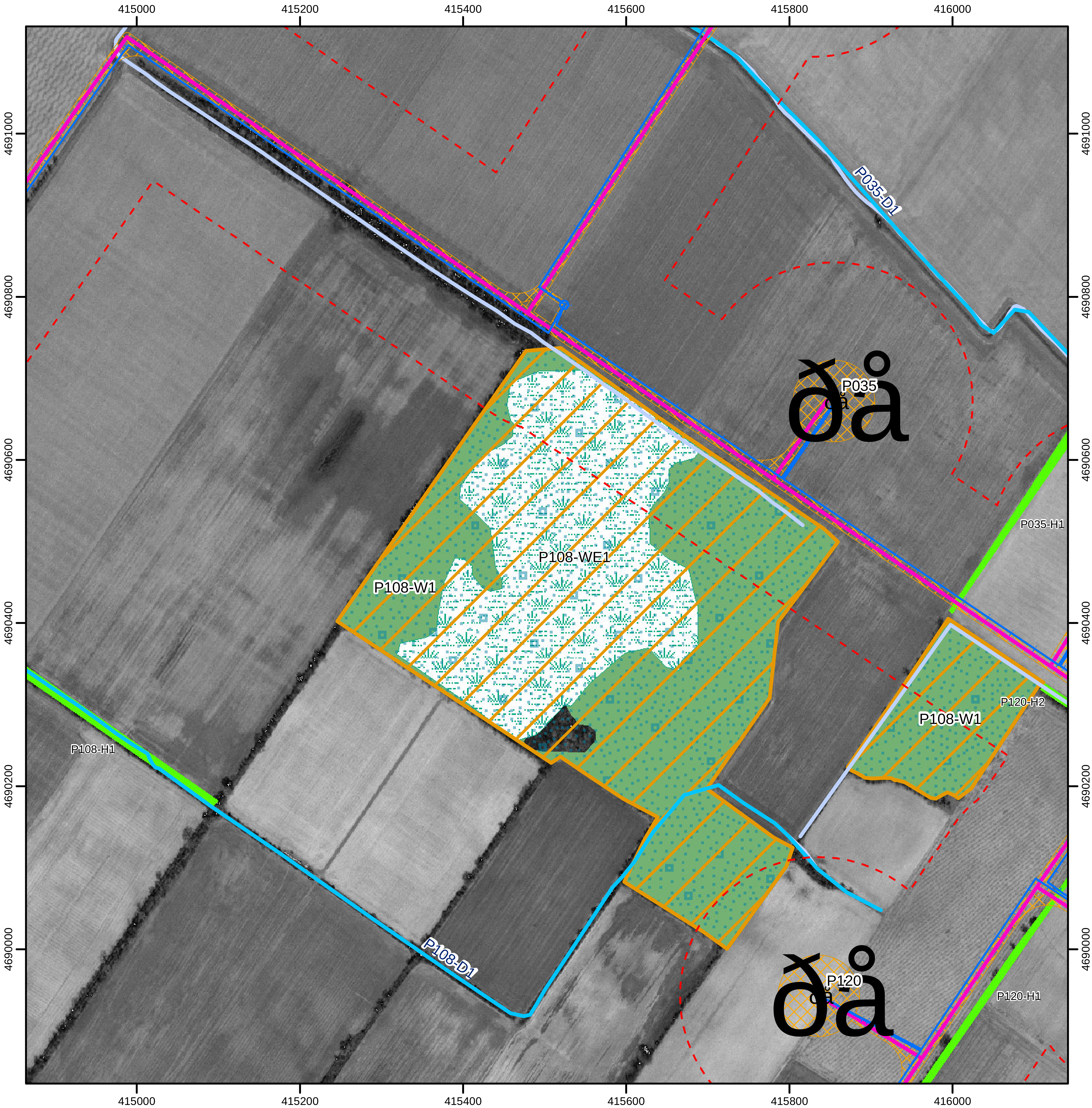
- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas
- Bat Maternity Roost

Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P108-WE1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

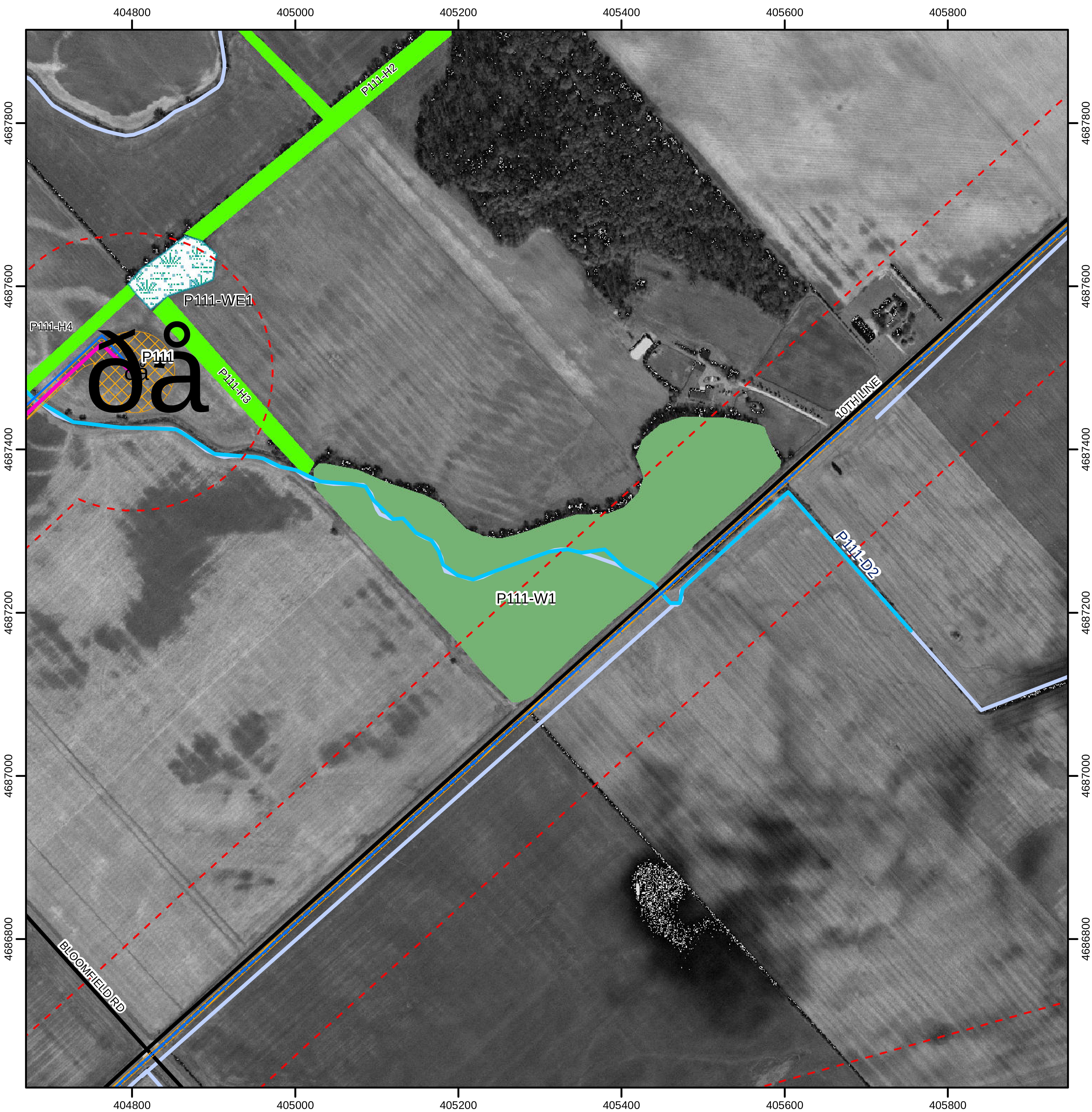
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P111-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

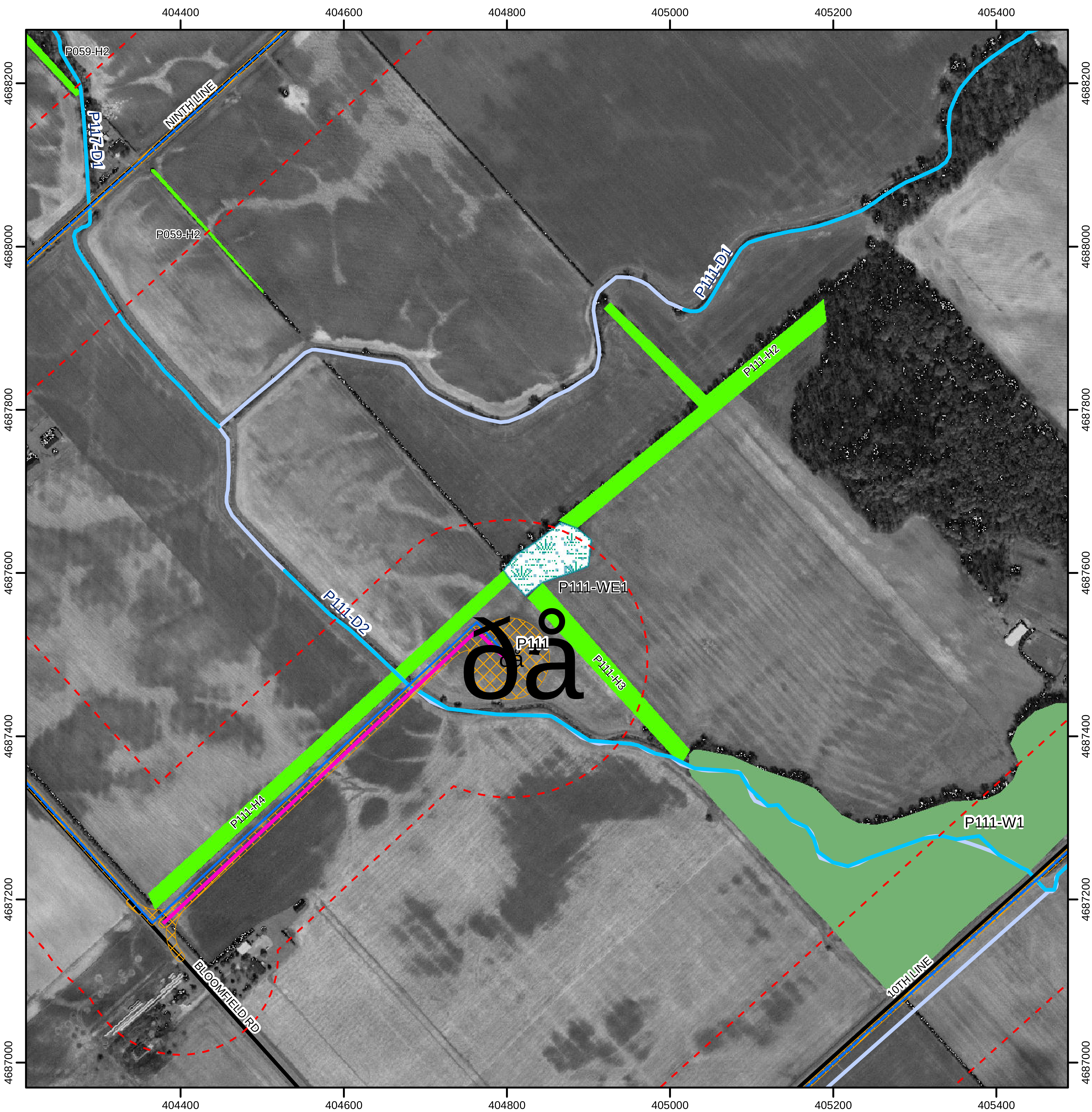
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P111-WE1

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

South Kent Wind Project

P114-W1

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P117-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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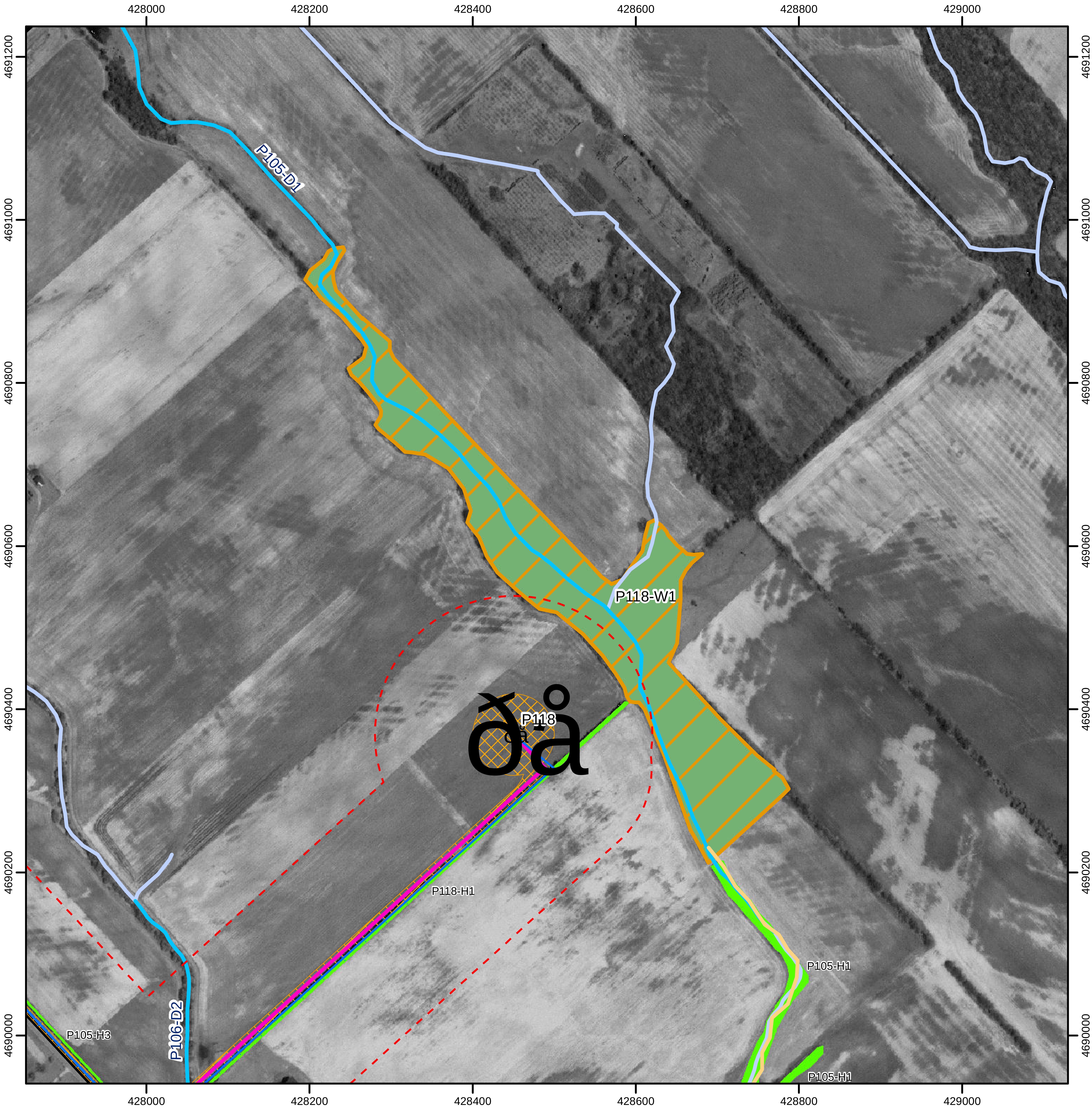

South Kent Wind Project

P118-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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South Kent Wind Project

P139-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

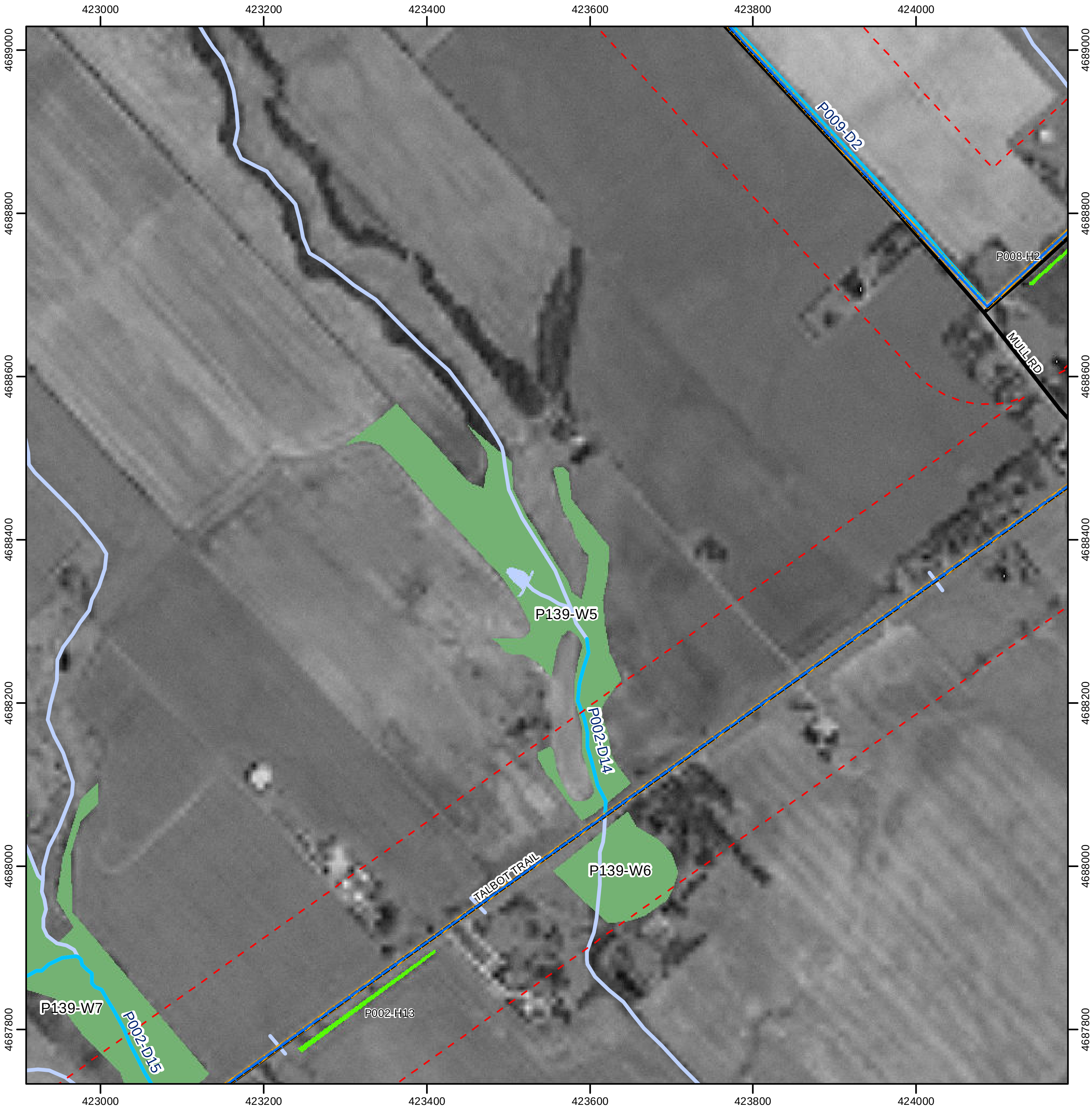
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P139-W5, P139-W6

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

South Kent Wind Project

P139-W7

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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South Kent Wind Project

P139-W8

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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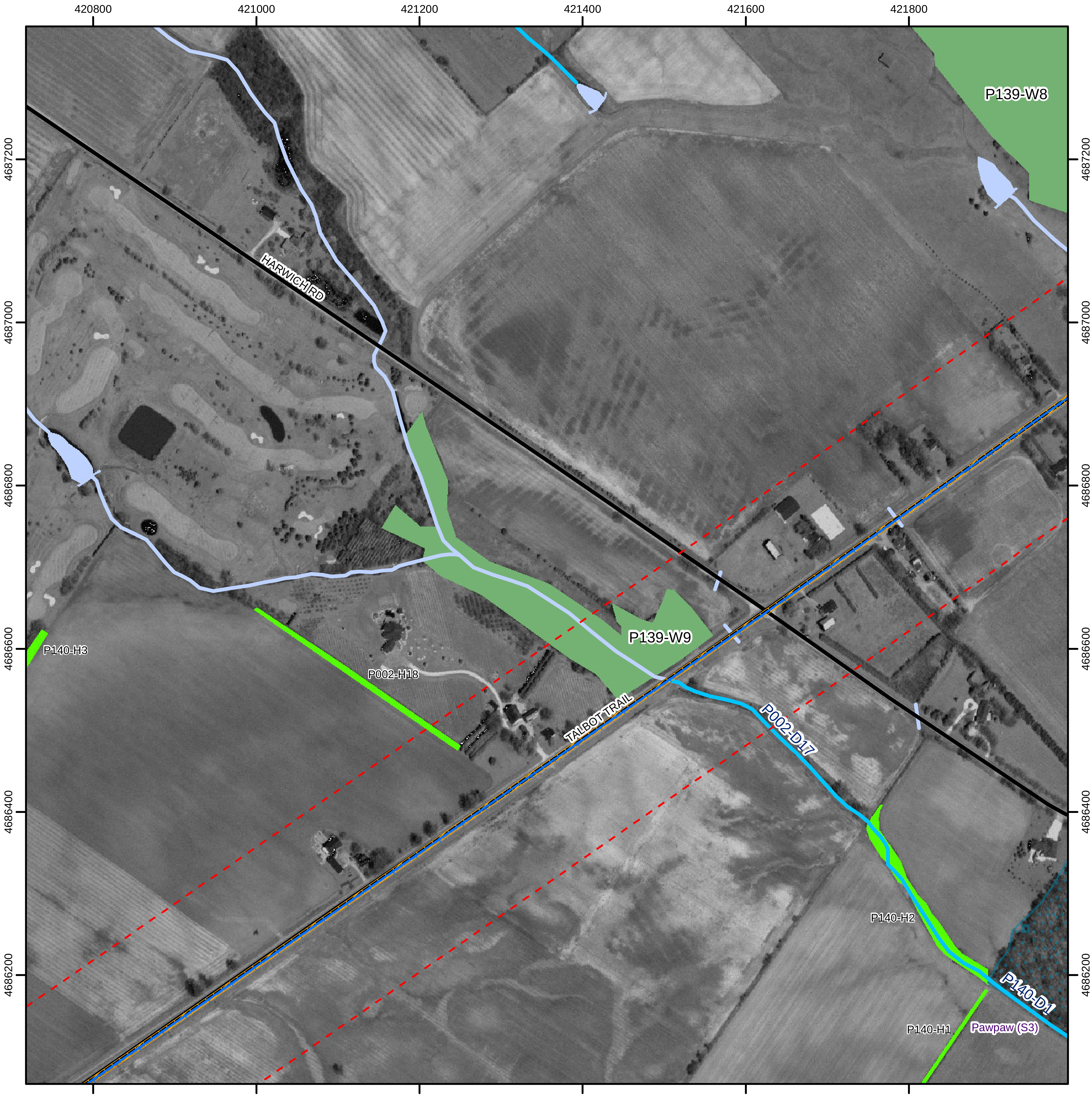


South Kent Wind Project

P139-W9

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

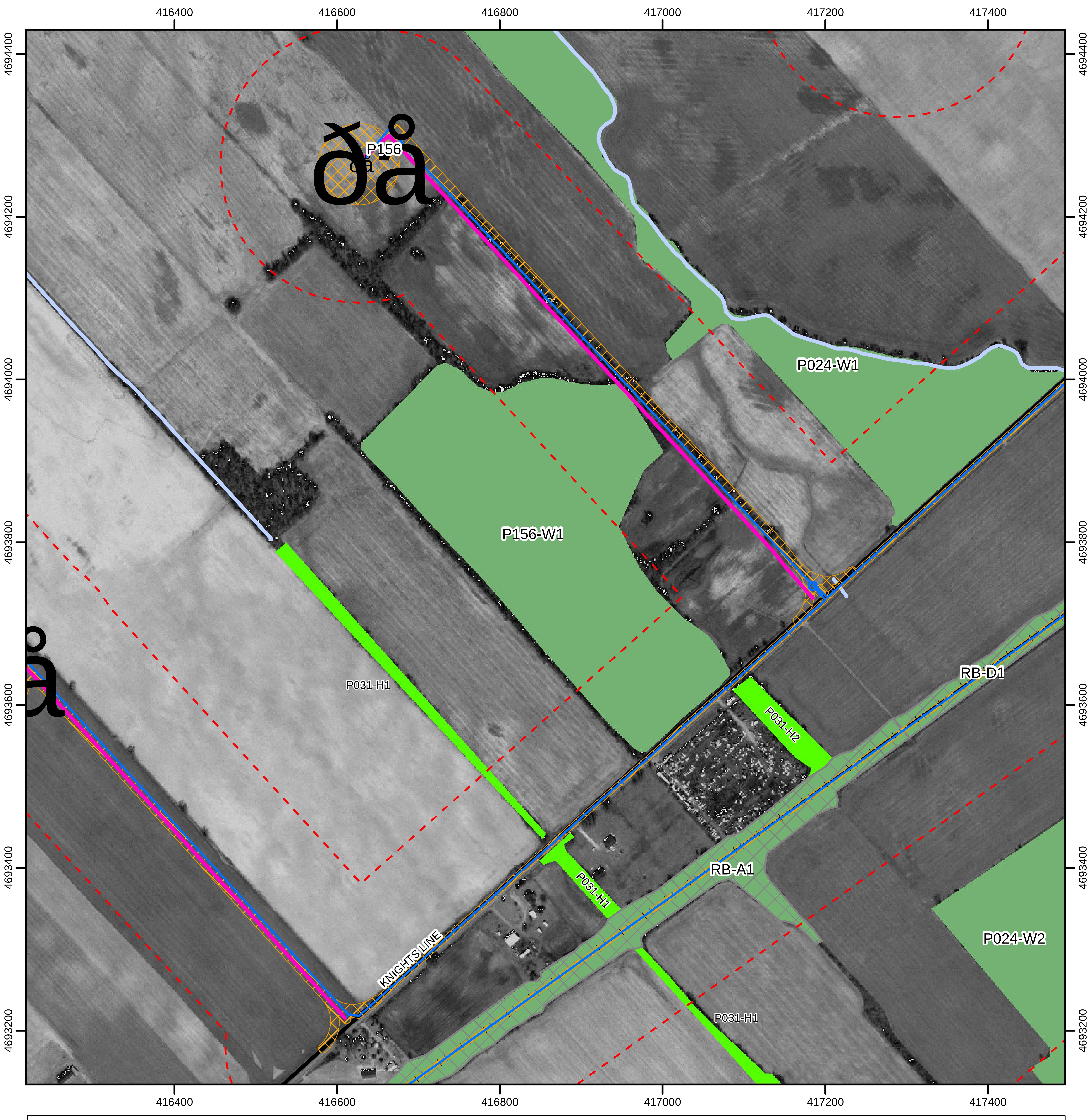
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P156-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

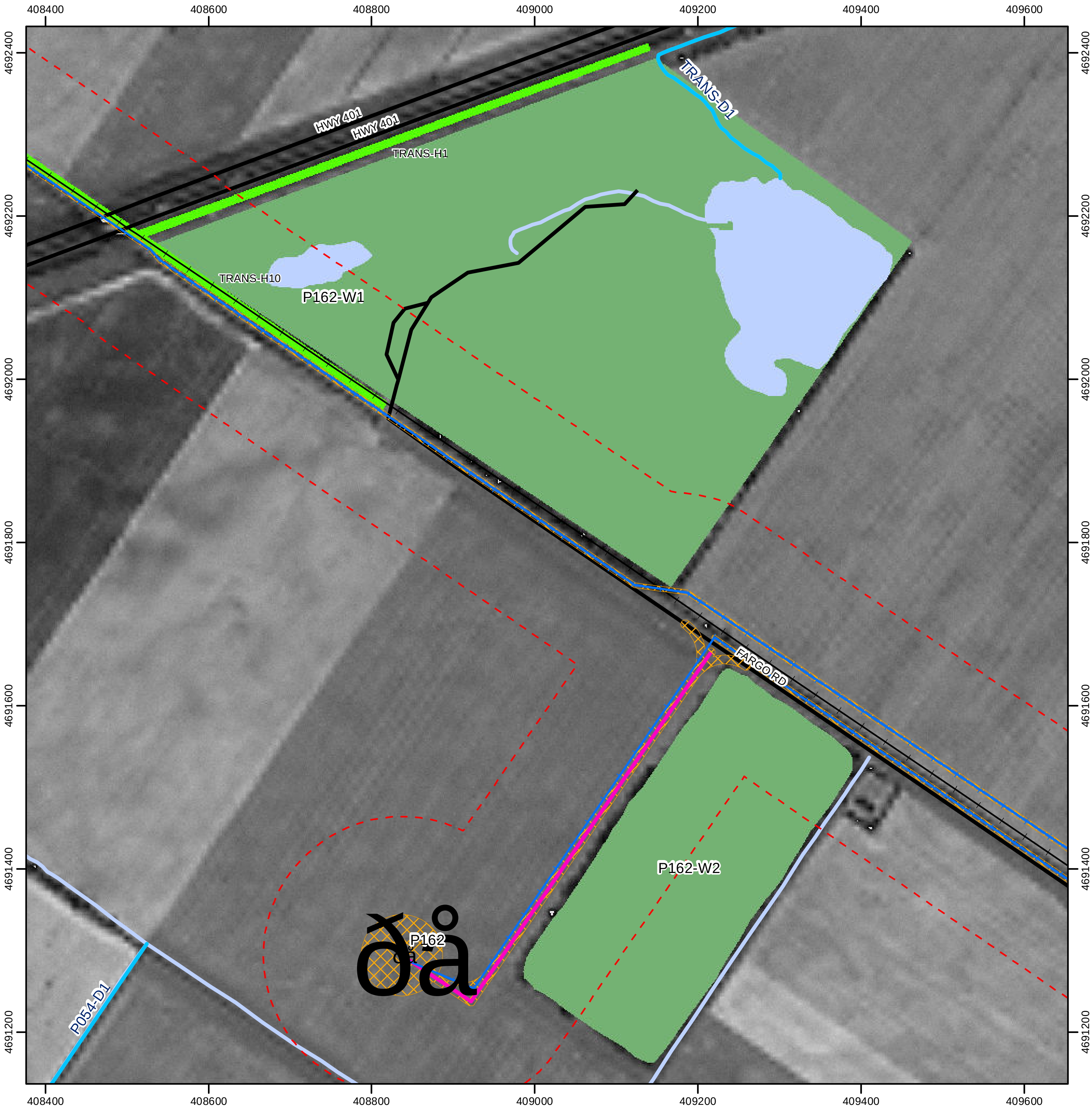
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P162-W1, P162-W2

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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South Kent Wind Project

P166-W1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

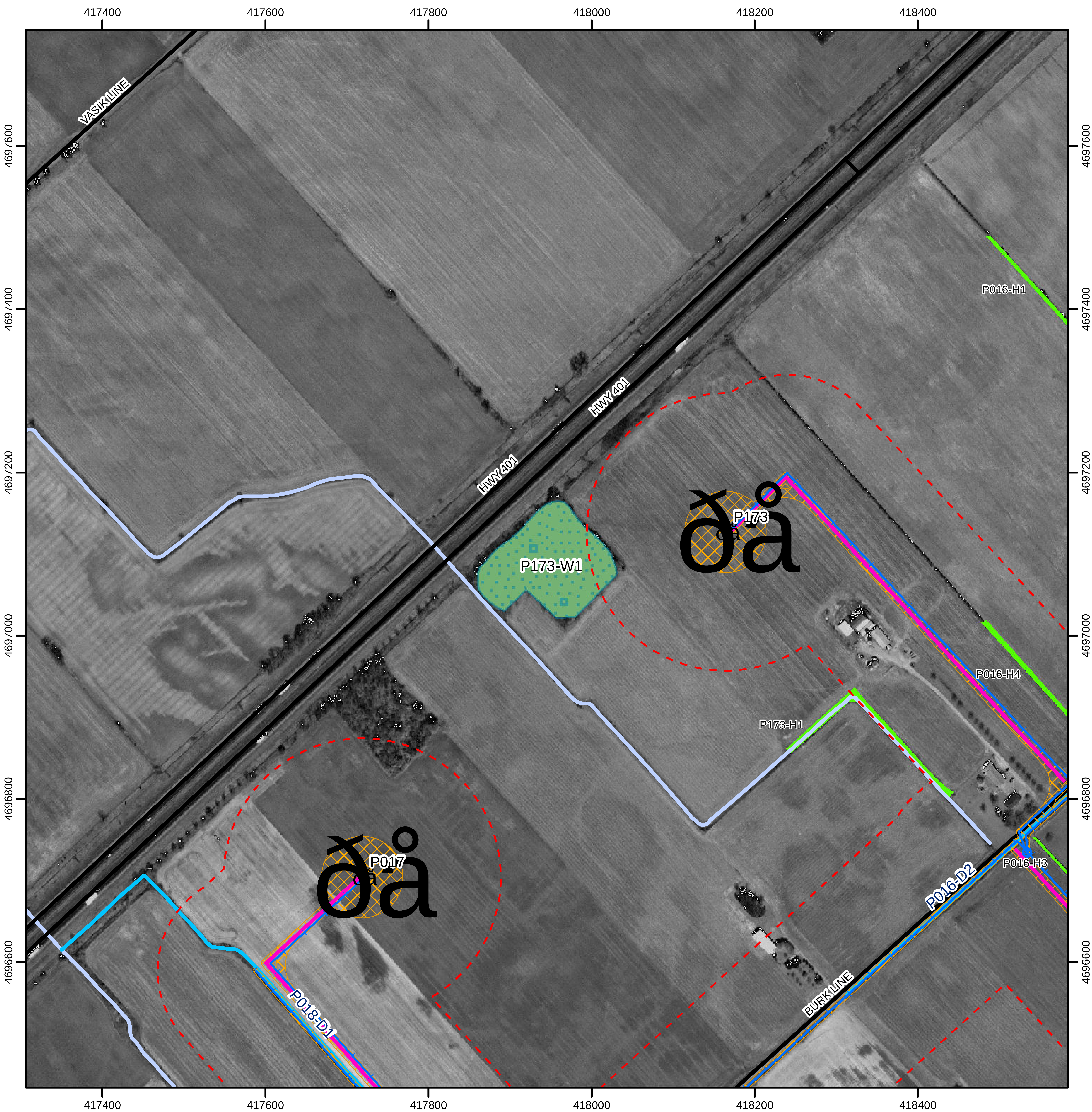
Legend
- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas
- Bat Maternity Roost

Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P173-W1

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

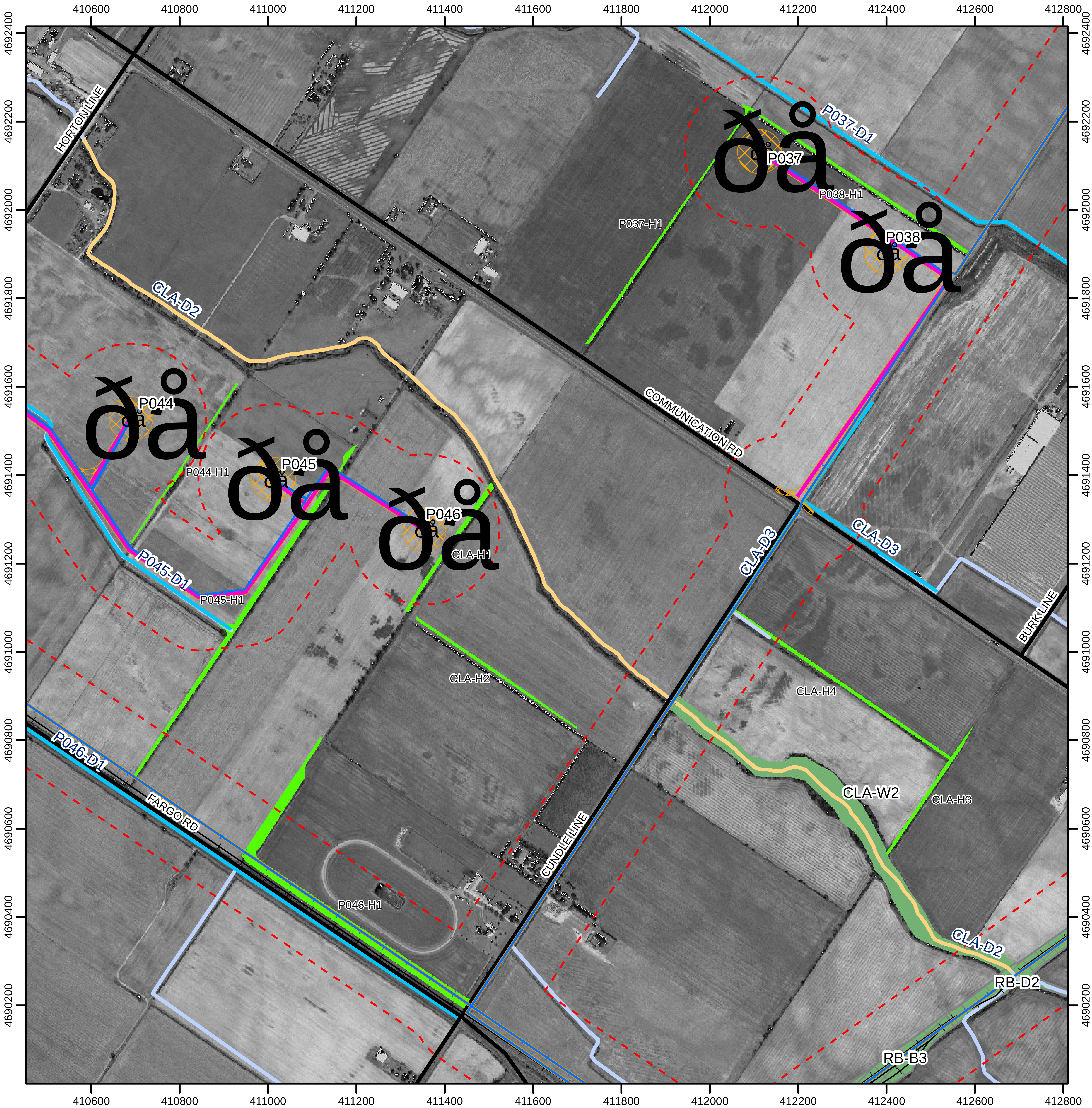
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

CLA-D2

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

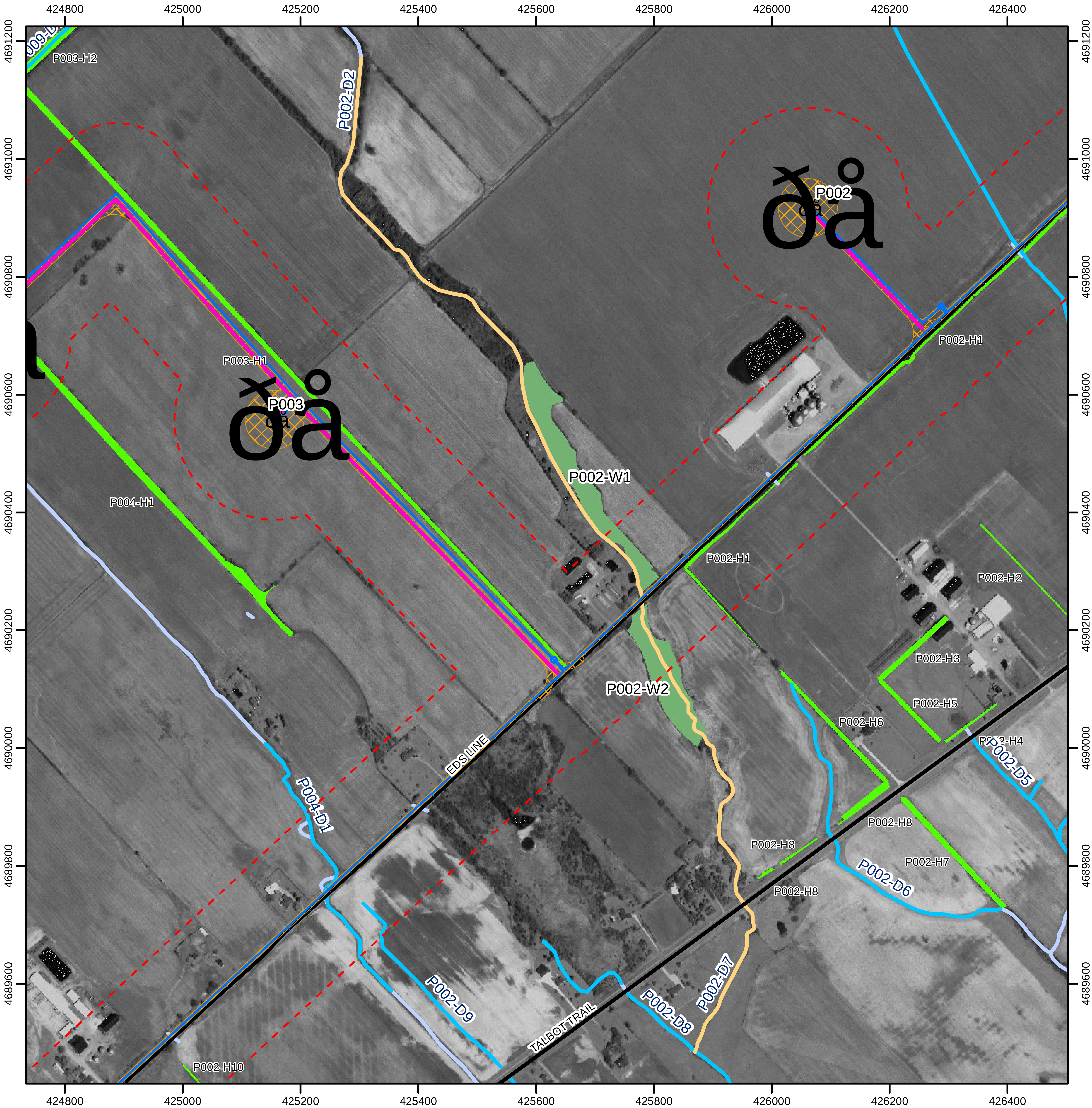
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P002-D2

Natural Resource Solutions Inc.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas
- Bat Maternity Roost

Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

South Kent Wind Project

P069-D2

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
- Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

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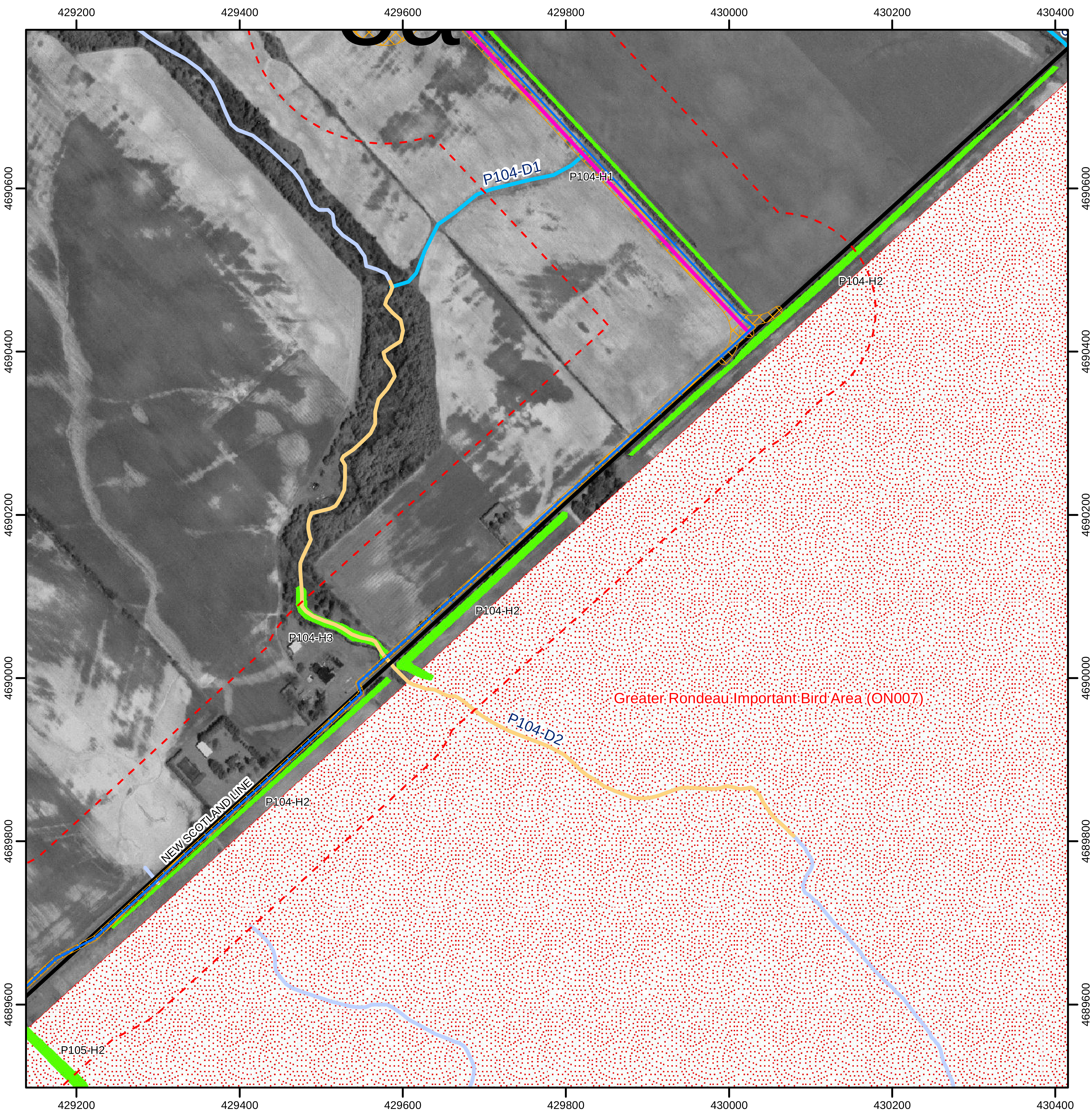

South Kent Wind Project

P104-D2

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
- Railway
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

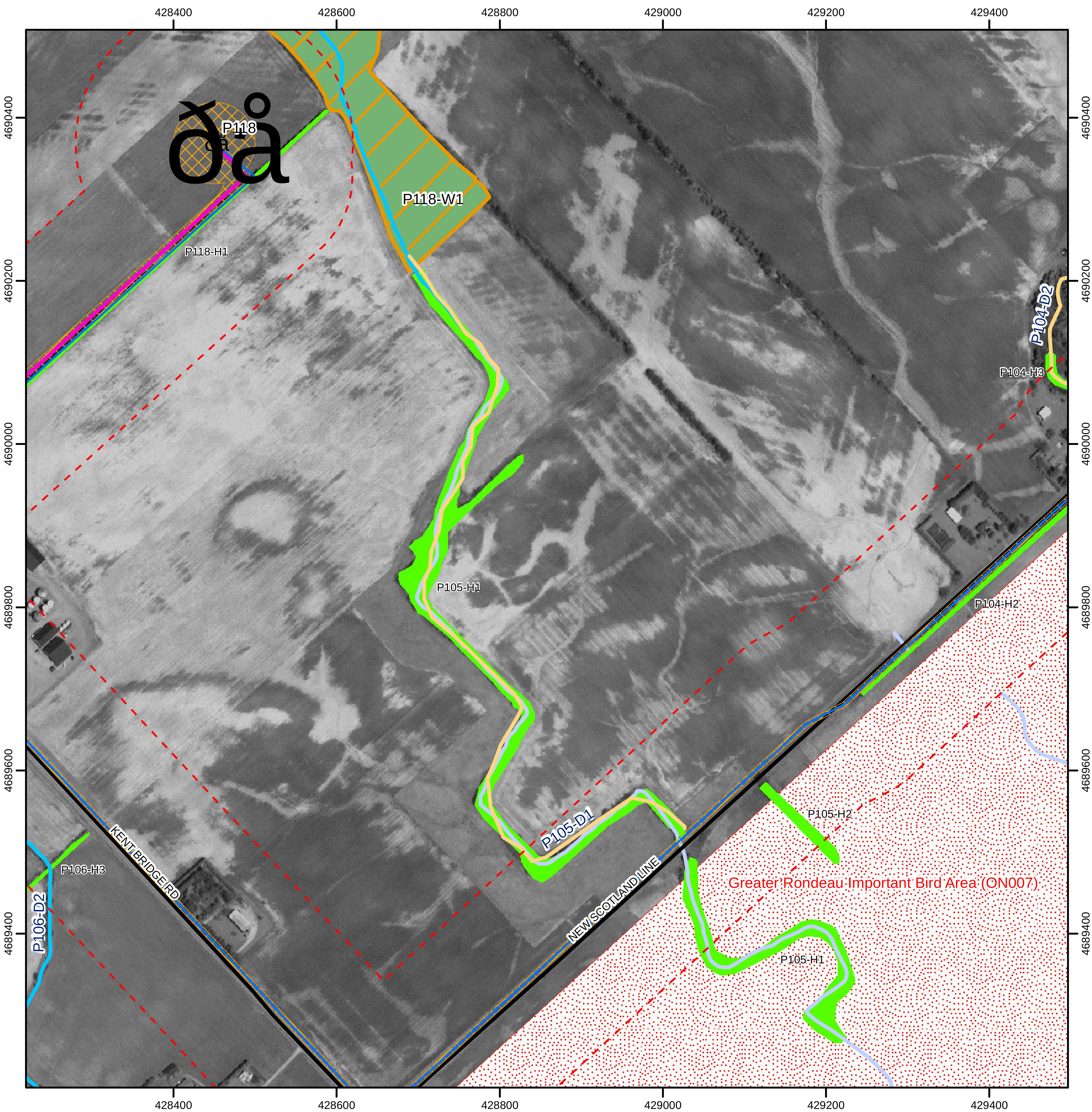
- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor



South Kent Wind Project

P105-D1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd

South Kent Wind Project

P114-D1

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- Proposed Turbine (L20)
- Substation
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- Access Road
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

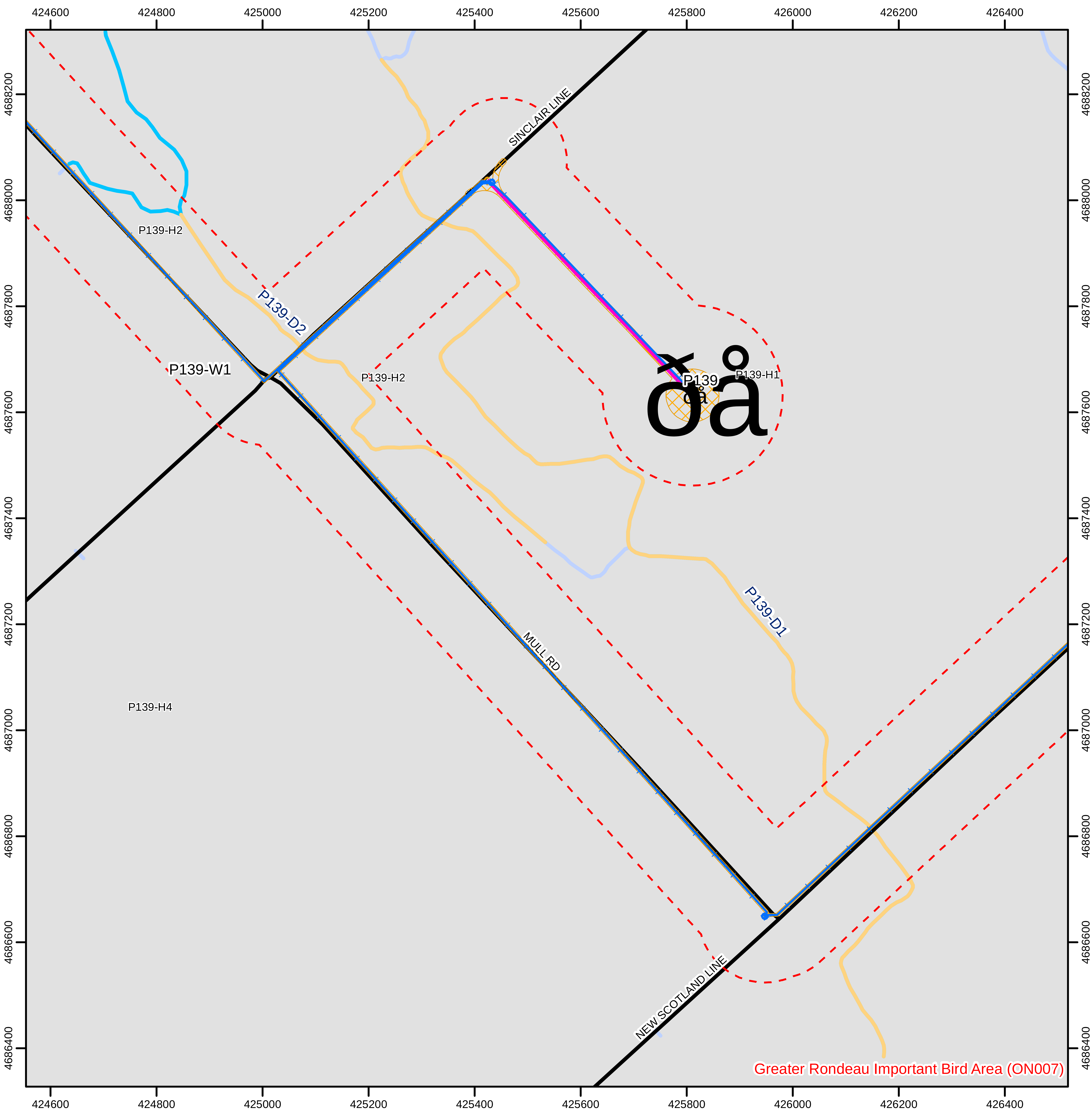
Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd



South Kent Wind Project

P139-D1

Date: 30/04/2012
Project No: NRSI-1184
UTM Zone 17, NAD 83
Scale: 1:6,500 (at 8.5 X 11")

0 25 50 100 150 200 m

Legend

- Project Area (April 20th, 2012)
- Constructible Area
- ðå Proposed Turbine (L20)
- Substation
- Cabling
- Access Road
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- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Hedgerow
- Woodland (NRSI)
- Important Bird Area

Seasonal Concentration Areas

- Bat Maternity Roost

Habitat of Species of Conservation Concern

- Open Country Bird Breeding Habitat
- Area Sensitive Bird Breeding Habitat
- Habitat for Species Ranked S1-S3

Animal Movement Corridor

- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_MicrositesMaps_SIGNIFICANT_FEATURES_5K_2012_04_24_SWM.mxd