



Stantec

**GRAND RENEWABLE ENERGY PARK
PROPERTY LINE SETBACK ASSESSMENT
REPORT**

DRAFT

File No. 160960577
July 2011

Prepared for:

Samsung Renewable Energy Inc.
55 Standish Court
Mississauga, ON L5R 4B2

Prepared by:

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Suite 1 – 70 Southgate Drive
Guelph, Ontario N1G 4P5

Executive Summary

Samsung C&T (Samsung), Korea Power Electric Corporation (KEPCO) and Pattern Energy (Pattern) are proposing to develop, construct, and operate the Grand Renewable Energy Park (the “Project”) in response to the Government of Ontario’s initiative to promote the development of renewable electricity in the Province. Together, these companies (referred to herein as “SPK”) will be involved in the development of the first phase of the energy cluster development.

The Project is proposed within the County of Haldimand and is generally bounded by Townline Road to the north, Haldimand Road 20 to the west, the Grand River to the east and Lake Erie to the south. It consists of a 151.1 MW (nameplate capacity) wind project, a 100 MW (nameplate capacity) solar project located on privately owned and Ontario Realty Corporation (ORC) managed lands and a transmission line to convey electricity to the existing power grid.

The basic components of the Project include 67 wind turbines, approximately 425,000 photovoltaic (PV) solar panels installed on fixed ground-mounted racking structures organized into 100-1 MW solar modules, a collector sub-station, interconnect station and Operations and Maintenance building, temporary storage and staging areas, approximately 20 km of 230 kV transmission lines along Haldimand Road 20, approximately 82 km of new overhead and/or underground 34.5 kV collector lines along public roads, approximately 48 km of new underground collector lines along turbine access roads, approximately 45 km of turbine access roads and 40 km of solar panel maintenance roads.

SPK has retained Stantec Consulting Ltd. (Stantec) to prepare a Renewable Energy Approval (REA) application, as required under Ontario Regulation 359/09 - Renewable Energy Approvals under Part V.0.1 of the Act of the Environmental Protection Act (O. Reg. 359/09). According to subsection 6(3) of O. Reg. 359/09, the wind component of the Project is classified as a Class 4 Wind Facility and the solar component of the Project is classified as a Class 3 Solar Facility. This Draft Property Line Setback Assessment Report is one component of the REA application for the Project, and has been prepared in accordance with O. Reg. 359/09, the Ontario Ministry of Natural Resources’ (MNR’s) Approval and Permitting Requirements Document for Renewable Energy Projects (September 2009).

The following table summarizes the documentation requirements as specified under O. Reg. 359/09.

GRAND RENEWABLE ENERGY PARK
PROPERTY LINE SETBACK ASSESSMENT REPORT
Executive Summary
July 2011

Table E.1: Property Line Setback Assessment Report Requirements: O. Reg. 359/09

Requirements	Completed	Section Reference
As part of an application for the issues of a renewable energy approval or a certificate of approval in respect of the construction, installation or expansion of the wind turbine, the person who is constructing, installing or expanding the wind turbine submits a written assessment,		
1. Demonstrating that the proposed location of the wind turbine will not result in adverse impacts on nearby business, infrastructure, properties or land use activities, and	✓	Section 2.0, Attachment B
2. Describing any preventative measures that are required to be implemented to address the possibility of any adverse impacts.	✓	Section 2.0, Attachment B

Table of Contents

1.0 INTRODUCTION	1.1
1.1 PROJECT OVERVIEW.....	1.1
1.2 REPORT REQUIREMENTS	1.1

2.0 SUMMARY OF PROPERTY LINE SETBACK ANALYSIS	2.1
2.1 INFRASTRUCTURE	2.1
2.2 LAND USE AND BUSINESSES	2.1
2.3 HEDGEROWS.....	2.2
2.4 WOODLOTS.....	2.2
2.5 WATERCOURSES	2.3

3.0 CLOSURE	3.1
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List of Tables

Table E.1: Property Line Setback Assessment Report Requirements: O.Reg. 359/09.....	E.2
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List of Attachments

Attachment A Figures: Individual Turbine Locations and Property Line Setbacks
Attachment B Individual Property Line Setback Assessments

1.0 Introduction

1.1 PROJECT OVERVIEW

Samsung C&T (Samsung), Korea Power Electric Corporation (KEPCO) and Pattern Energy (Pattern) are proposing to develop, construct, and operate the Grand Renewable Energy Park (the "Project") in response to the Government of Ontario's initiative to promote the development of renewable electricity in the Province. Together, these companies (referred to herein as "SPK") will be involved in the development of the first phase of the energy cluster development.

The Project is proposed within the County of Haldimand and is generally bounded by Townline Road to the north, Haldimand Road 20 to the west, the Grand River to the east and Lake Erie to the south. It consists of a 151.1 MW (nameplate capacity) wind project, a 100 MW (nameplate capacity) solar project located on privately owned and Ontario Realty Corporation (ORC) managed lands and a transmission line to convey electricity to the existing power grid.

The basic components of the Project include 67 wind turbines, approximately 425,000 photovoltaic (PV) solar panels installed on fixed ground-mounted racking structures organized into 100-1 MW solar modules, a collector sub-station, interconnect station and Operations and Maintenance building, temporary storage and staging areas, approximately 20 km of 230 kV transmission lines along Haldimand Road 20, approximately 82 km of new overhead and/or underground 34.5 kV collector lines along public roads, approximately 48 km of new underground collector lines along turbine access roads, approximately 45 km of turbine access roads and 40 km of solar panel maintenance roads.

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1.2 REPORT REQUIREMENTS

The purpose of the Property Line Setback Assessment Report is to provide a review of potential adverse impacts and preventative measures for wind turbines located within the prescribed setback from non-participating parcels of land.

Of the 67 potential turbine sites being assessed for the Project all of the proposed turbine sites meet the minimum setback requirement of at least 550 metres from the nearest noise receptor. None of the proposed turbine sites are located less than the length of the turbine blades plus 10 metres (i.e. 59 metres) from a non-participating property line. However 21 are located closer to a non-participating property line than the height of the turbine (100 metres).

For those 21 turbines, in accordance with Section 53 of O.Reg 359/09, this report has been prepared to:

- Demonstrate that the proposed location of the wind turbine will not result in adverse impacts on nearby business, infrastructure, properties or land use activities; and
- Describe any preventative measures that are required to be implemented to address the possibility of any adverse impacts.

2.0 Summary of Property Line Setback Analysis

This section summarizes the features over which Project turbine locations overlap the 100 m setback, potential adverse impacts on those features, and preventative measures to address potential adverse impacts. Mapping of each potential turbine location analyzed is provided in Attachment A.

The detailed analysis for each turbine, including the distance of each potential turbine site from the non-participating property line, and the distance of overlap, is provided in Attachment B.

2.1 INFRASTRUCTURE

Description of Features within Overlap

No structures such as barns, storage units, or receptors are present. Turbine 15 overlaps with the right-of-way associated with Aikens Road (an unimproved road), however the overlap does not extend over the actual road and only the right-of-way. Details regarding the distance of overlap are provided in Attachment B.

Potential Adverse Impacts

In the unlikely event of complete turbine collapse in the direction of the road, the turbine may land within the road right-of-way.

Preventative Measures

Turbine 15 meets the setback distance from public road right-of-ways, 59 m, as prescribed in s. 53 of O. Reg. 359/09. In addition, the turbine would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain automatic shutdown mechanisms in instances such as extreme weather or malfunction. All of these measures are standard best practices detailed in the REA documents, and no additional preventative measures are required.

2.2 LAND USE AND BUSINESSES

Description of Features within Overlap

Sixteen turbines have setback overlaps with agricultural cash crop land. Details regarding the specific turbines, and the overlap distance, are provided in Attachment B.

Potential Adverse Impacts

Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.

Preventative Measures

The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain automatic shutdown mechanisms in instances such as extreme weather. All of these measures are standard best practices detailed in the REA documents. In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by the Project owner for any crop damage, and measures are outlined in the Renewable Energy Application documents (i.e. Construction Plan Report) to mitigate soil compaction. Given the above measures, no additional preventative measures are required.

2.3 HEDGEROWS**Description of Features within Overlap**

Eleven turbines have setback overlaps with hedgerows. Details regarding the specific turbines, and the overlap distance, are provided in Attachment B.

Potential Adverse Impacts

Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife, may occur in the unlikely event of turbine collapse.

Preventative Measures

The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain automatic shutdown mechanisms in instances such as extreme weather. All of these measures are standard best practices detailed in the REA documents. Additional mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents. Given the above measures, no additional preventative measures are required for the changes in setback.

2.4 WOODLOTS**Description of Features within Overlap**

Nine turbines have setback overlaps with woodlots. Details regarding the specific turbines, and the overlap distance, are provided in Attachment B.

Potential Adverse Impacts

Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.

Preventative Measures

The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain automatic shutdown mechanisms in instances such as extreme weather. All of these measures are standard best practices detailed in the REA documents. Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents. Given the above measures, no additional preventative measures are required for the changes in setback.

2.5 WATERCOURSES

Description of Features within Overlap

No turbine setbacks overlap with a watercourse.

Potential Adverse Impacts

There are no potential adverse impacts.

Preventative Measures

No preventative measures are required.

3.0 Closure

This report has been prepared by Stantec for the sole benefit of SPK, and may not be used by any third party without the express written consent of SPK. The data presented in this report are in accordance with Stantec's understanding of the Project as it was presented at the time of reporting.

STANTEC CONSULTING LTD.

DRAFT

Rob Nadolny, B.Sc. Hons., CPT
Senior Project Manager

DRAFT

Mark Kozak, B.E.S., Dipl. EA
Project Manager

Attachment A

**Figures: Individual Turbine Locations and
Property Line Setbacks**

593900

594000

594100



4748600

4748600

4748500

4748500

4748400

4748400

4748300

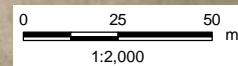
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593900

594000







594100

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Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.

Client/Project

SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.

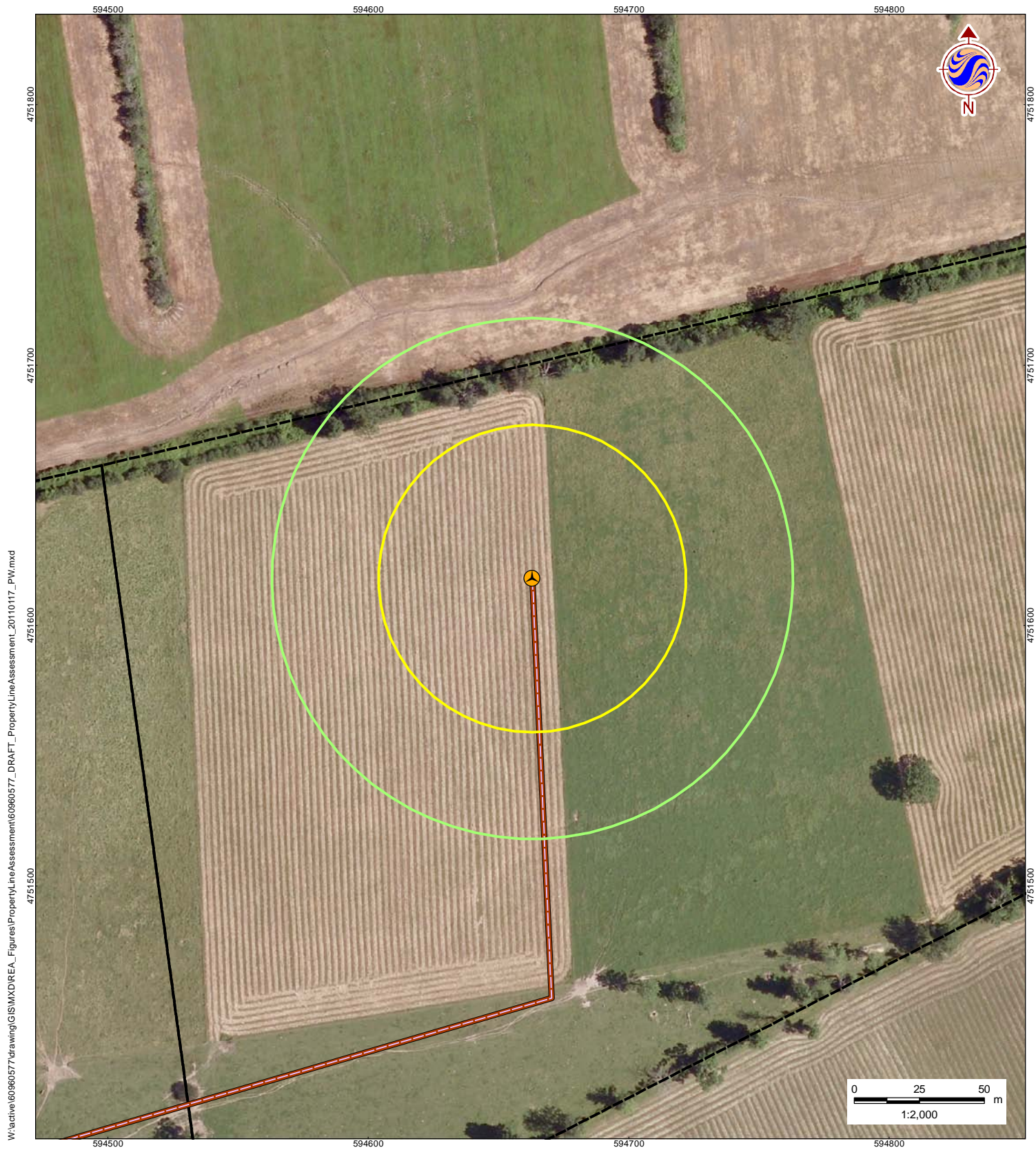
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Title







**PROPERTY LINE
ASSESSMENT - T10**



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Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

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SAMSUNG C&T
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Figure No.

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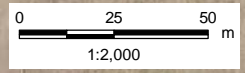
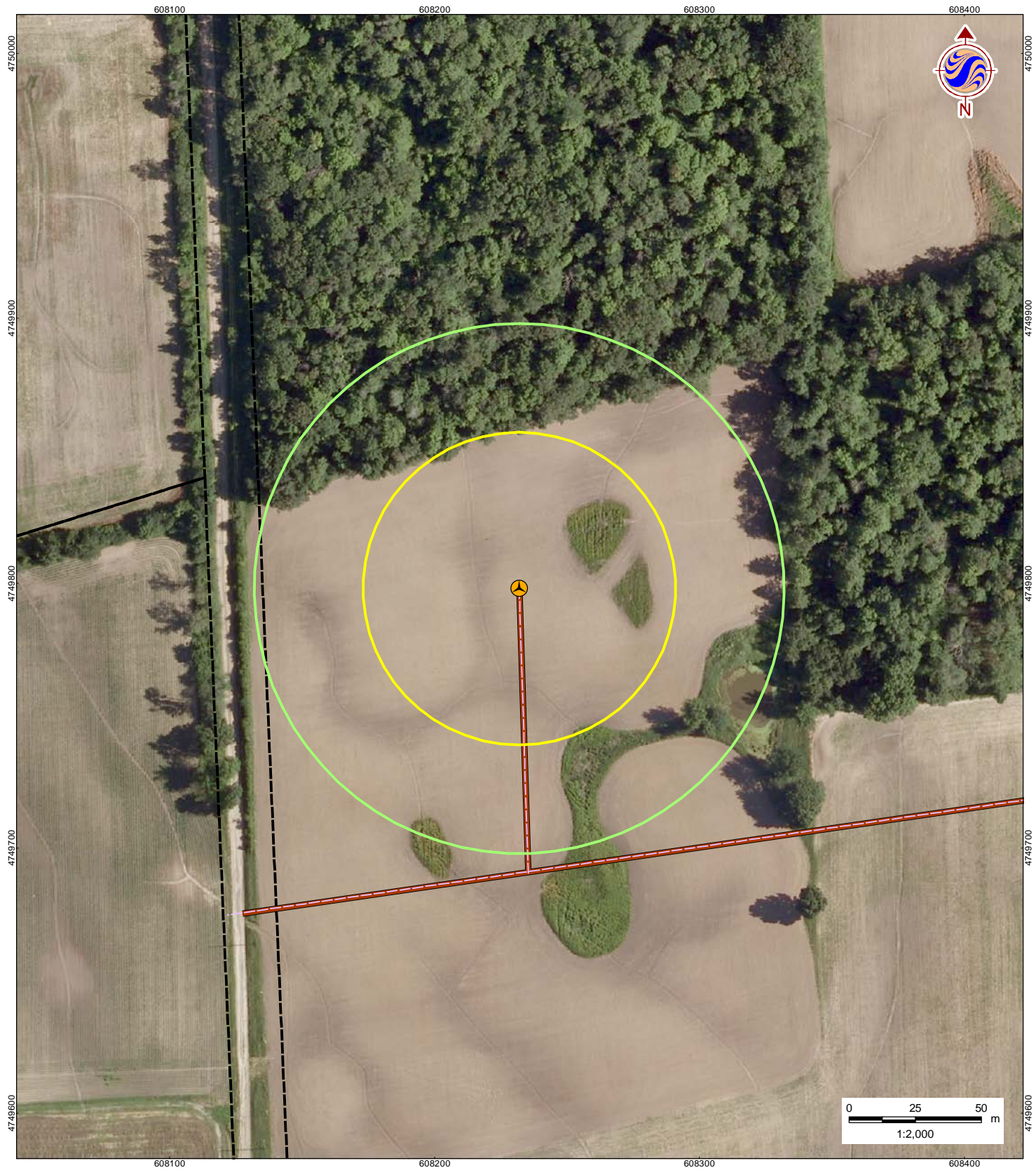
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**PROPERTY LINE
ASSESSMENT - T13**









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Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

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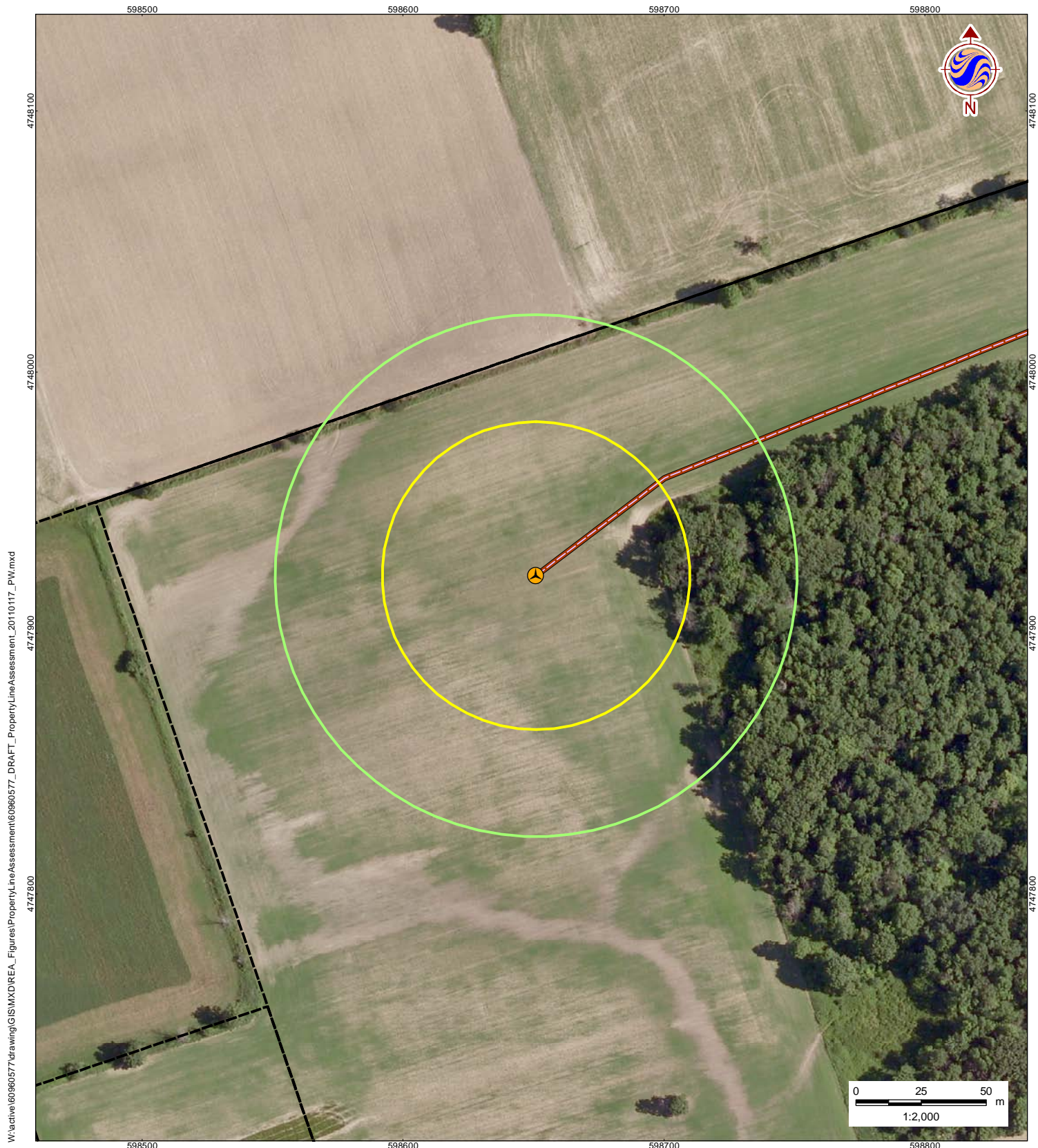
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Figure No.
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Title
PROPERTY LINE
ASSESSMENT - T15




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Legend

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Figure No.
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Title
**PROPERTY LINE
ASSESSMENT - T17**

587800

587900

588000

588100



4753600

4753500

4753400

4753300

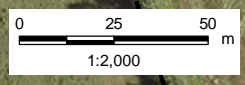
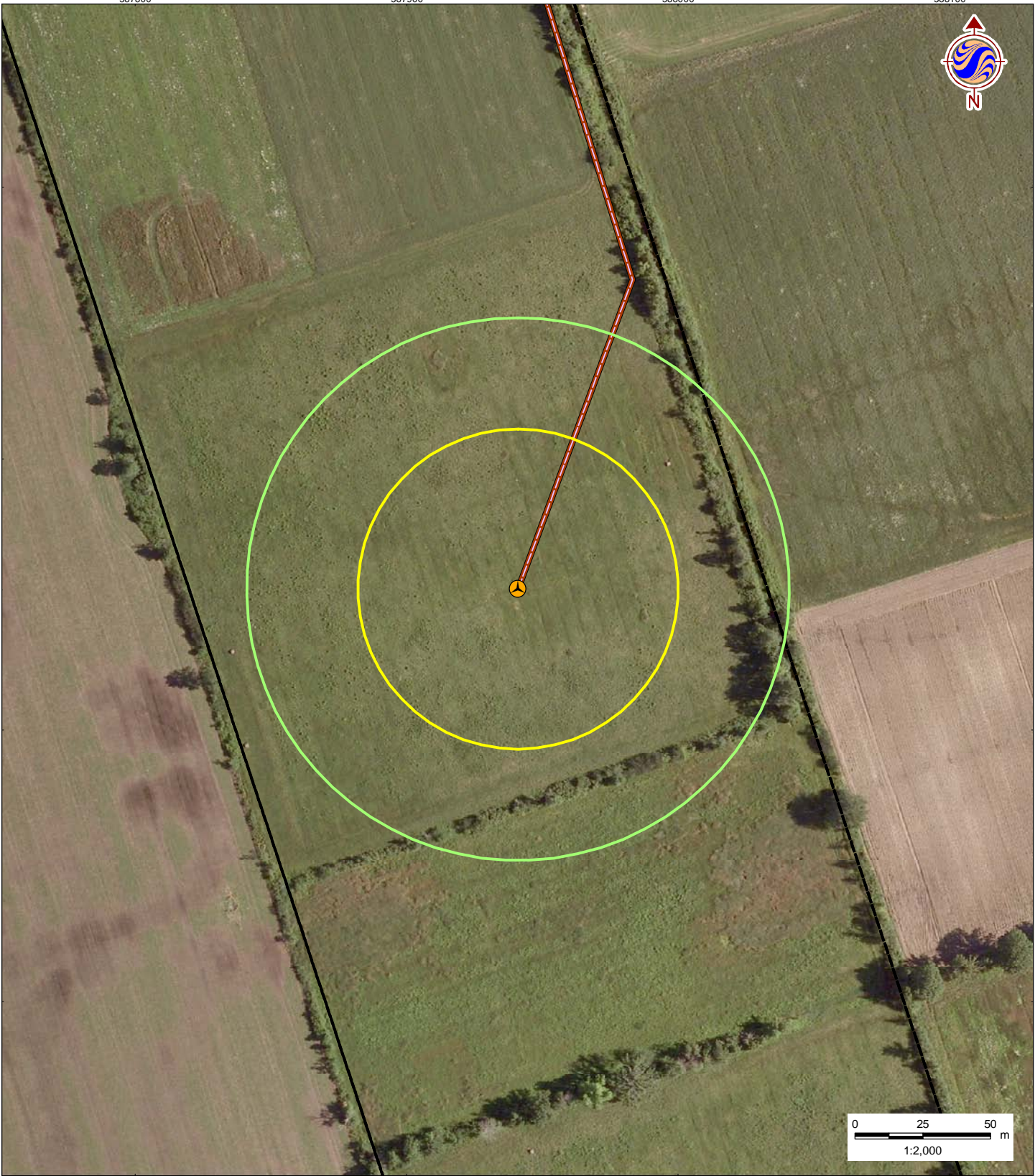
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4753500

4753400







4753300

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Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

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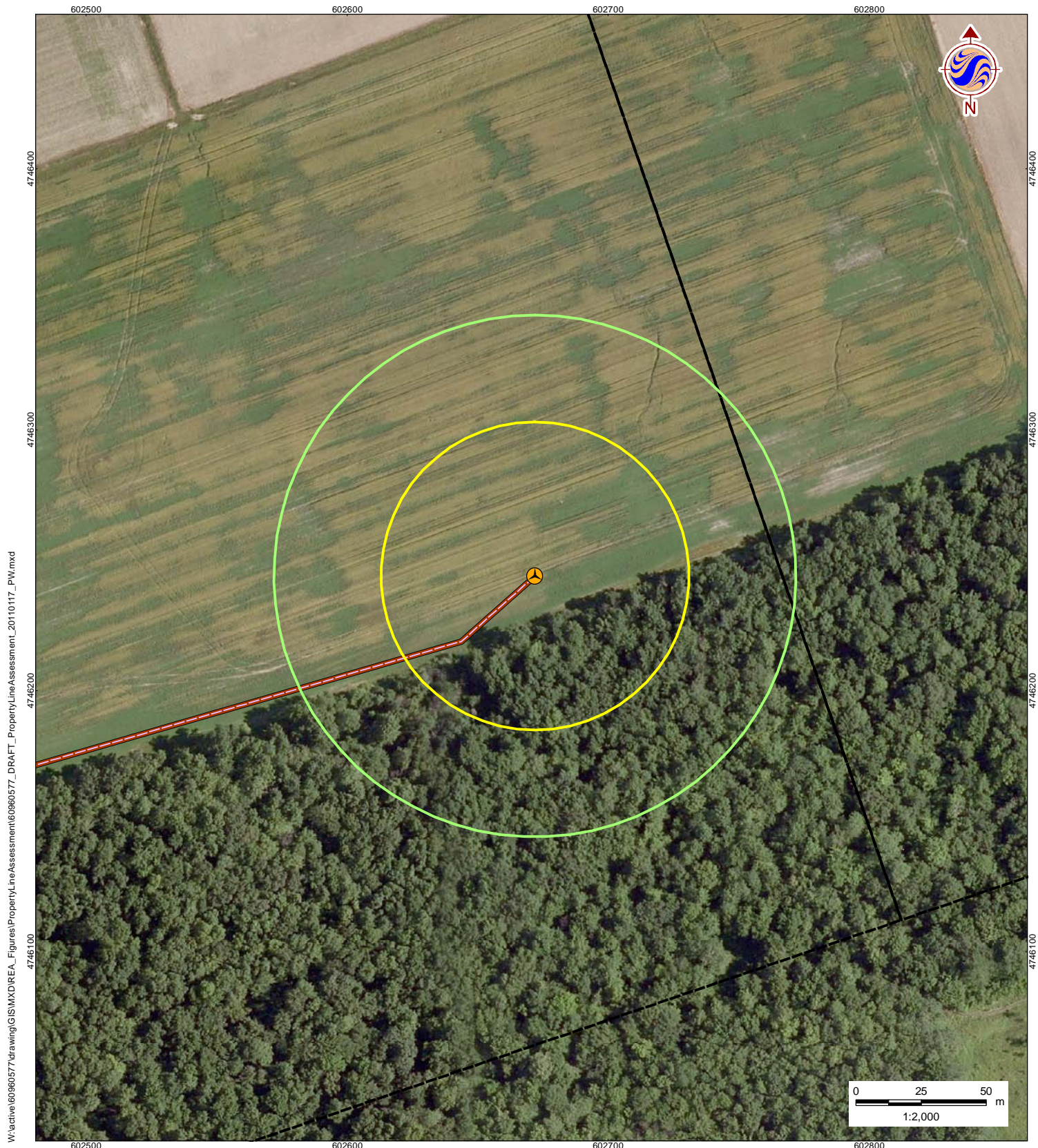
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GRAND RENEWABLE ENERGY PARK**

Figure No.
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Title
**PROPERTY LINE
ASSESSMENT - T18**









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Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

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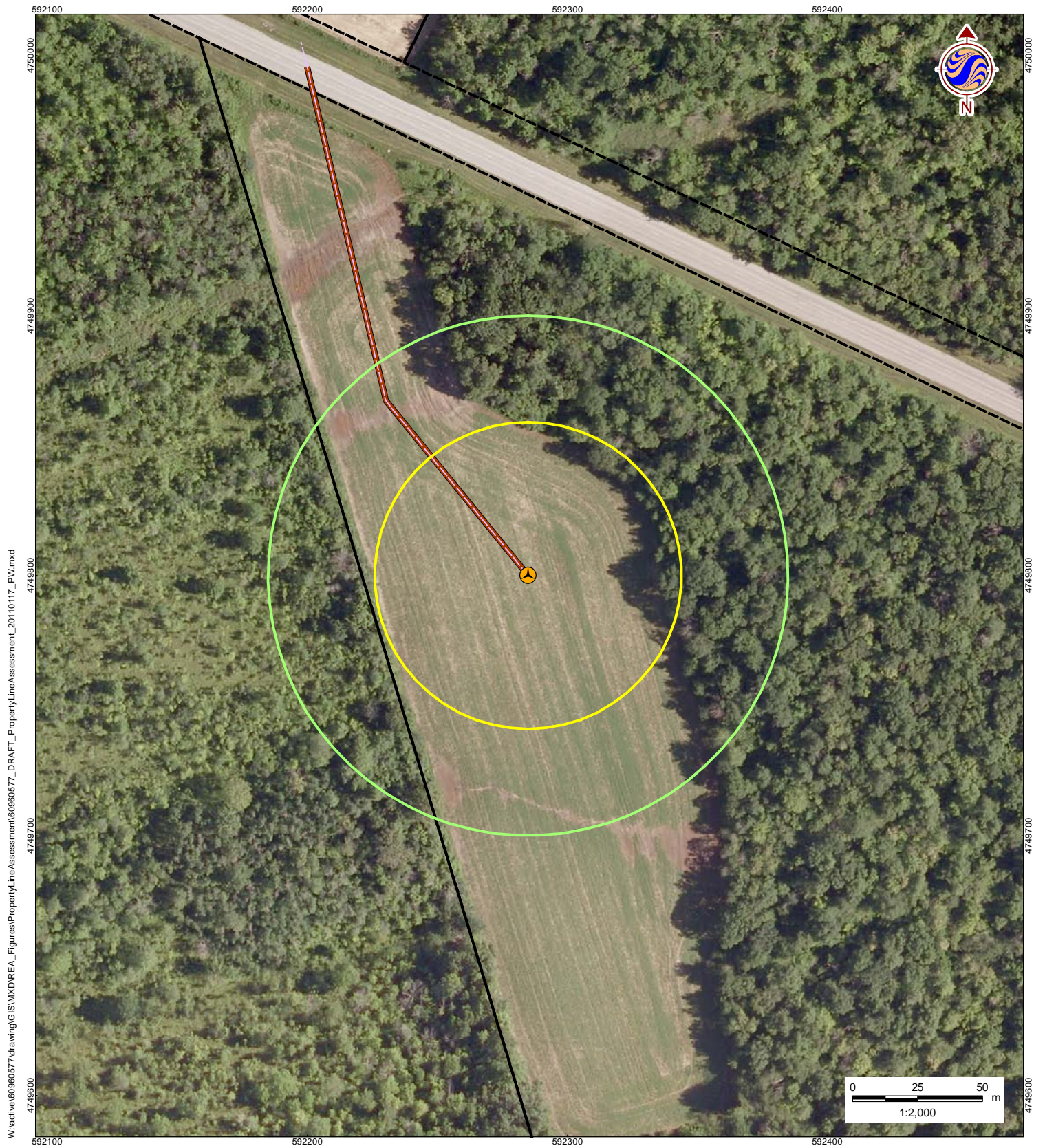
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GRAND RENEWABLE ENERGY PARK

Figure No.
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Title
**PROPERTY LINE
ASSESSMENT - T21**









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- Legend**
-  Proposed Turbine Location
 -  Turbine 59m Buffer
 -  Turbine 100m Buffer
 -  Access Road
 -  Underground Collector Line
 -  Property Line

- Notes**
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Figure No.
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Title
**PROPERTY LINE
ASSESSMENT - T24**

591200

591300

591400

591500



4752400

4752400

4752300

4752300

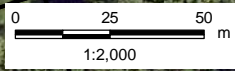
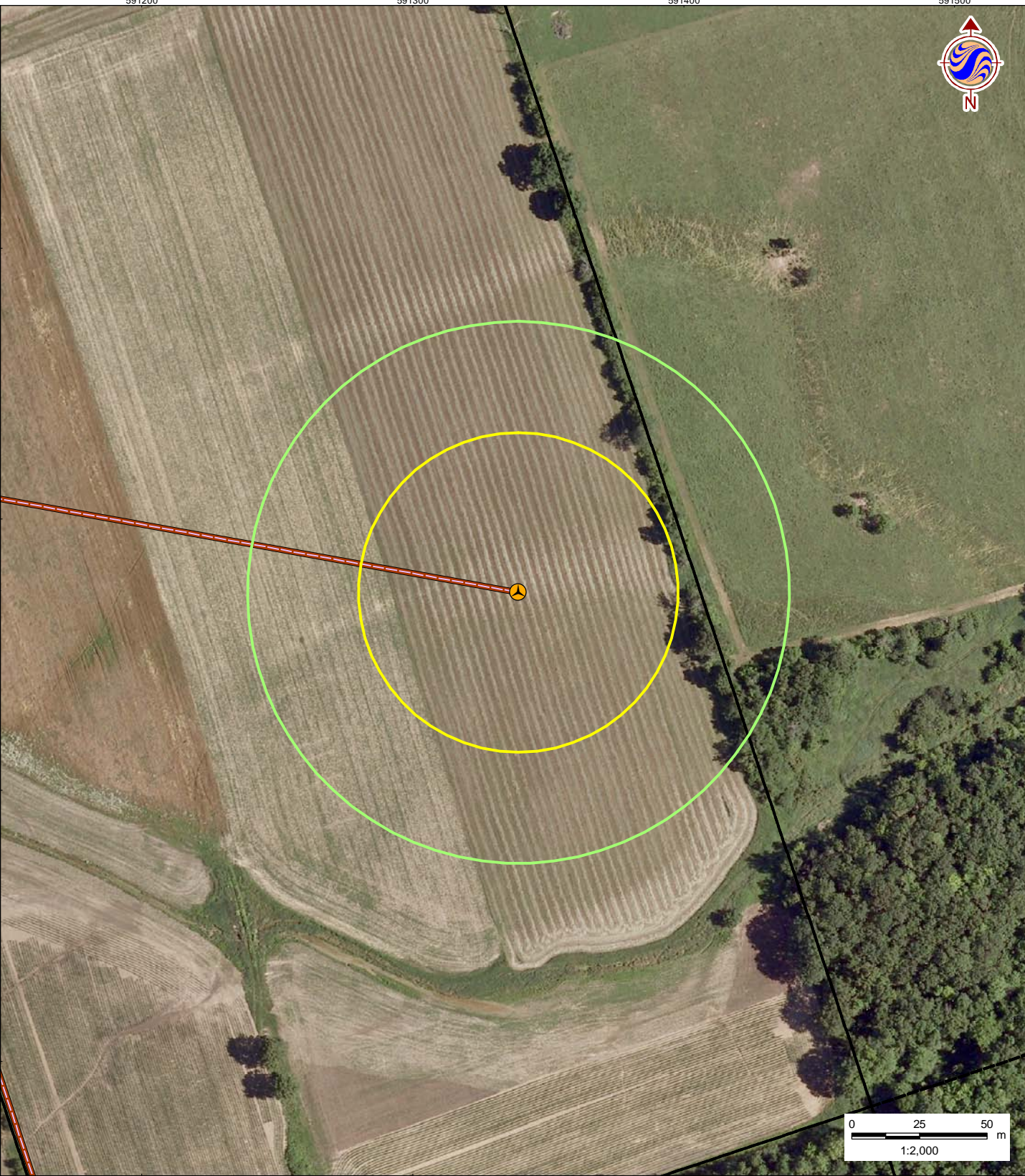
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591200







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591400

591500

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160960577

Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
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Title

**PROPERTY LINE
ASSESSMENT - T28**



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599800

599900

600000

600100

4750600

4750500

4750400

4750300

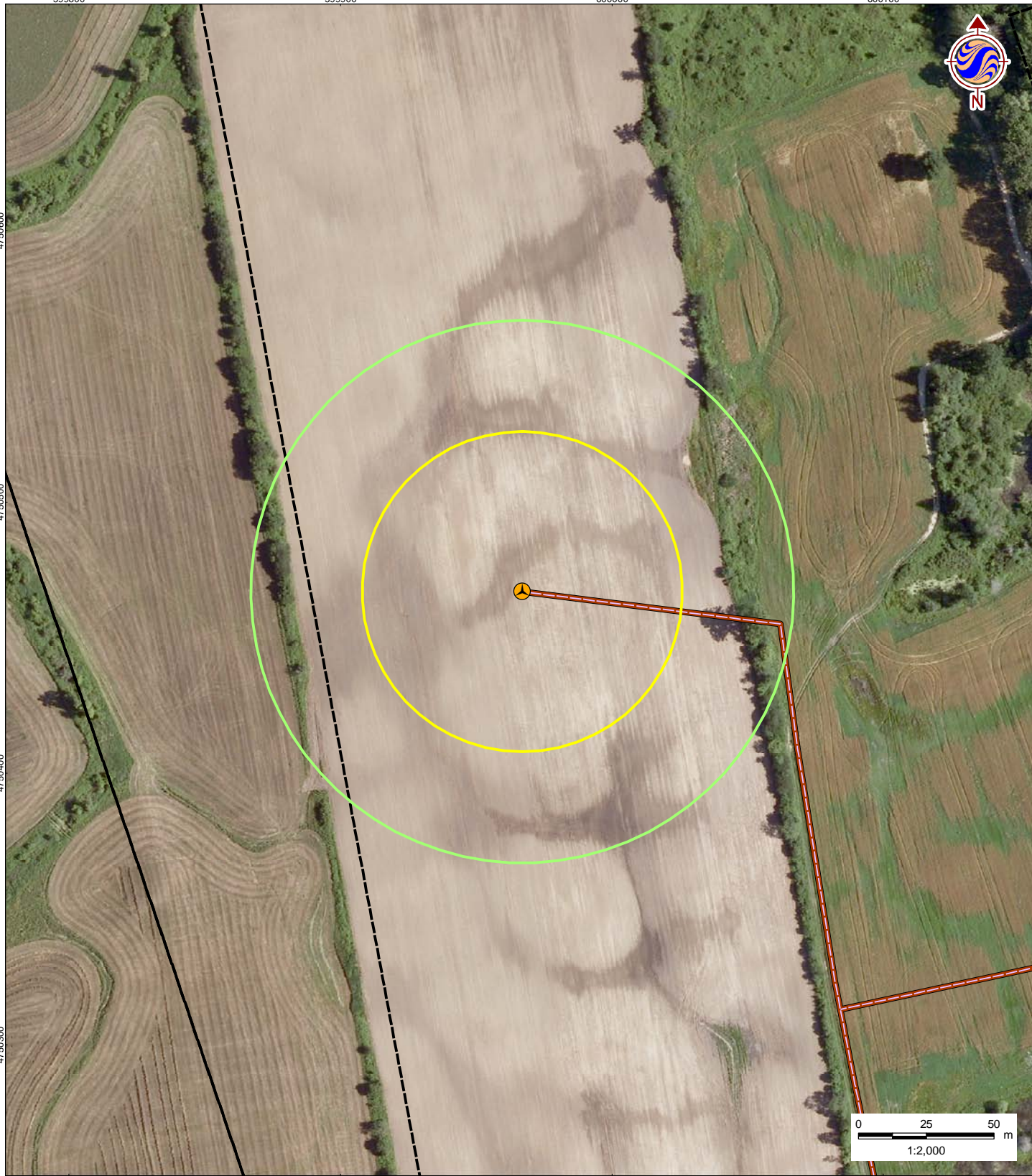
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4750500

4750400

4750300

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Legend

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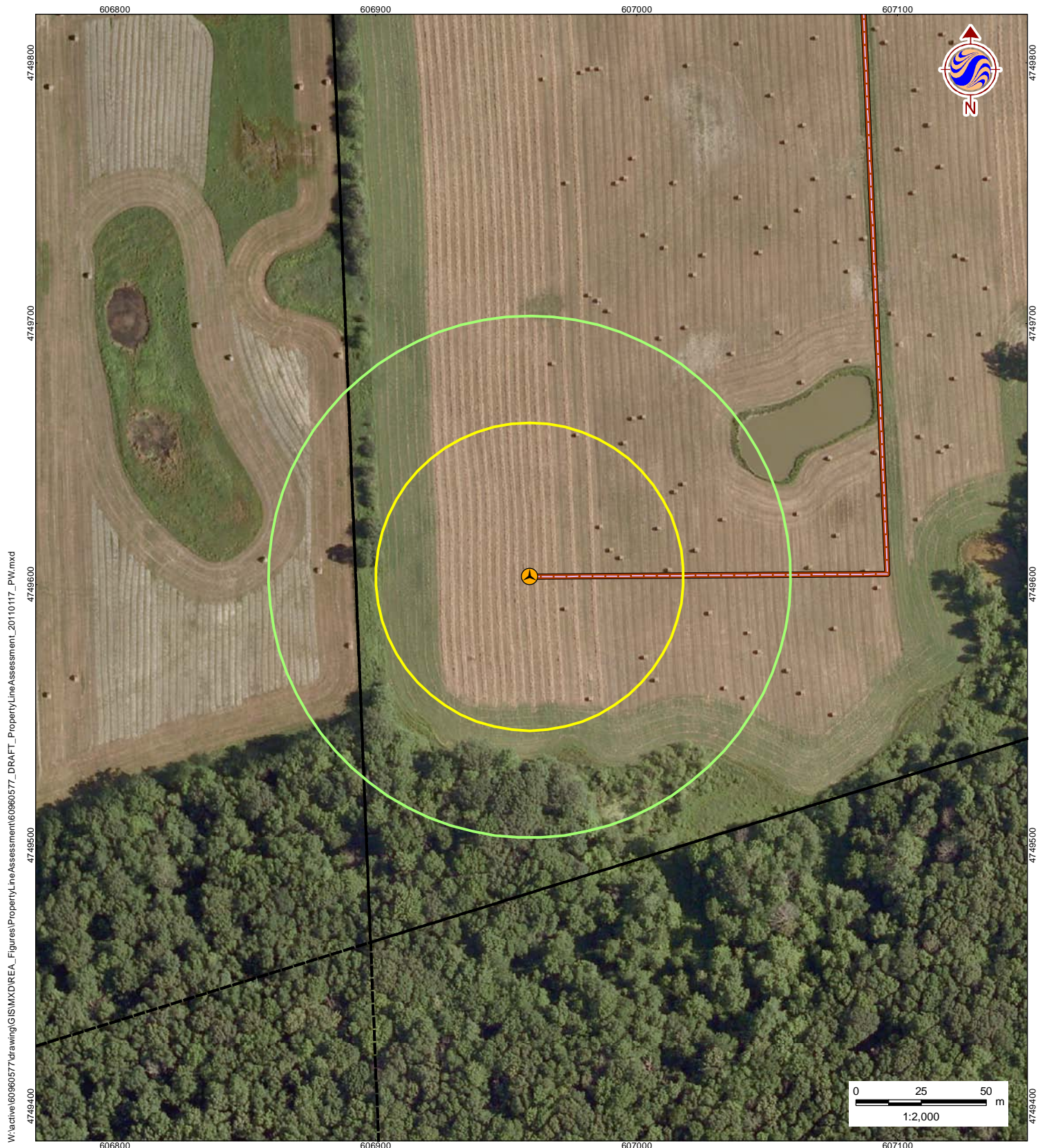
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Figure No.







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Title

**PROPERTY LINE
ASSESSMENT - T29**



Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

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Title

**PROPERTY LINE
ASSESSMENT - T30**



Stantec

589900

590000

590100



4755900

4755800

4755700

4755600

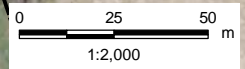
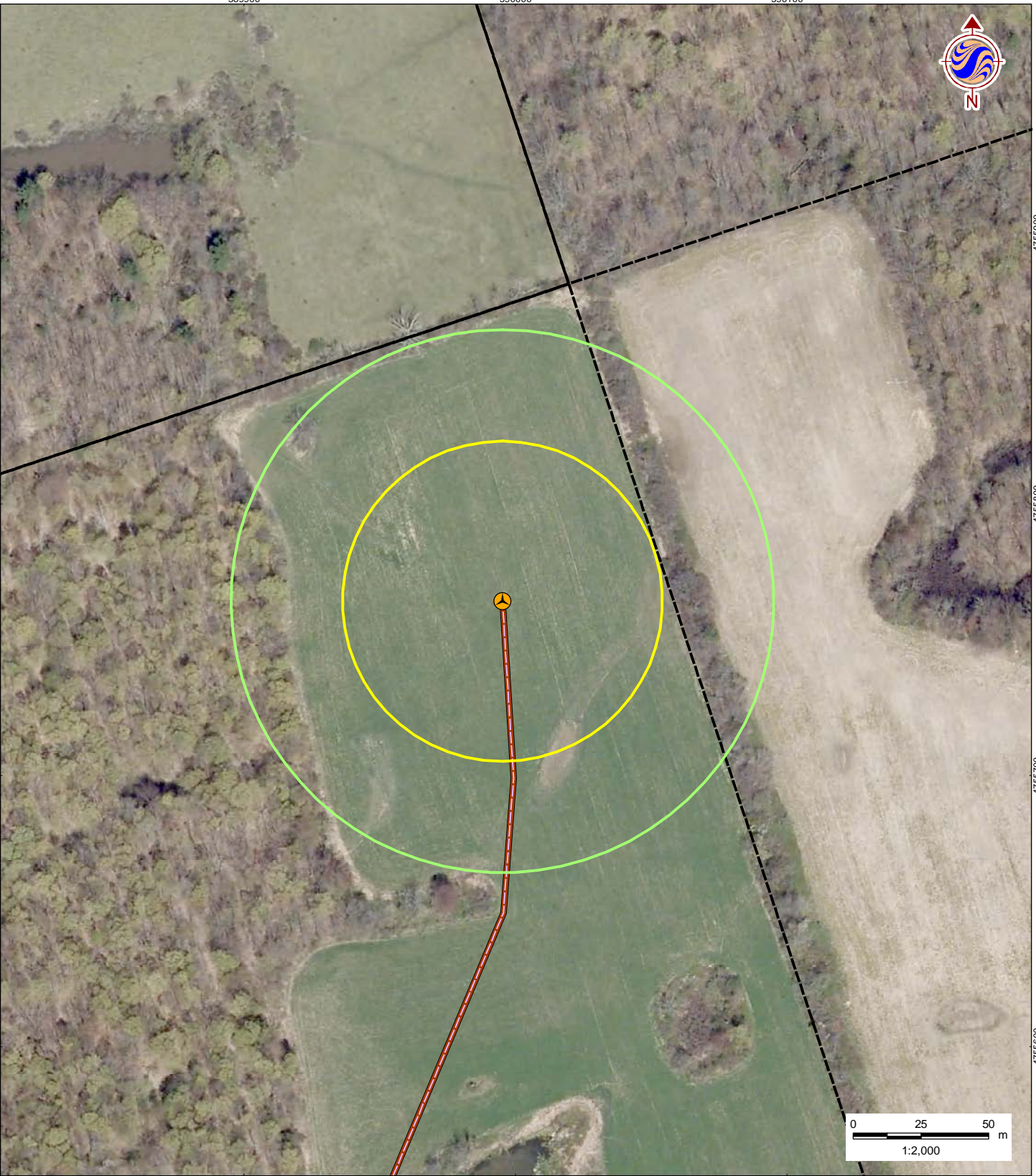
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4755800

4755700

4755600

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Legend

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GRAND RENEWABLE ENERGY PARK**

Figure No.

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Title

**PROPERTY LINE
ASSESSMENT - T36**

590300

590400

590500



4754000

4754000

4753900

4753900

4753800

4753800

4753700

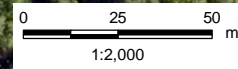
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590300







590400

590500



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160960577

Legend

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-  Turbine 59m Buffer
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Figure No.
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Title
**PROPERTY LINE
ASSESSMENT - T41**



Stantec

588300

588400

588500

588600

4753100

4753000

4752900

4752800

4753100

4753000

4752900

4752800



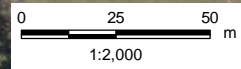
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588300

588400

588500

588600









January 2011
160960577



Stantec

Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.

Client/Project

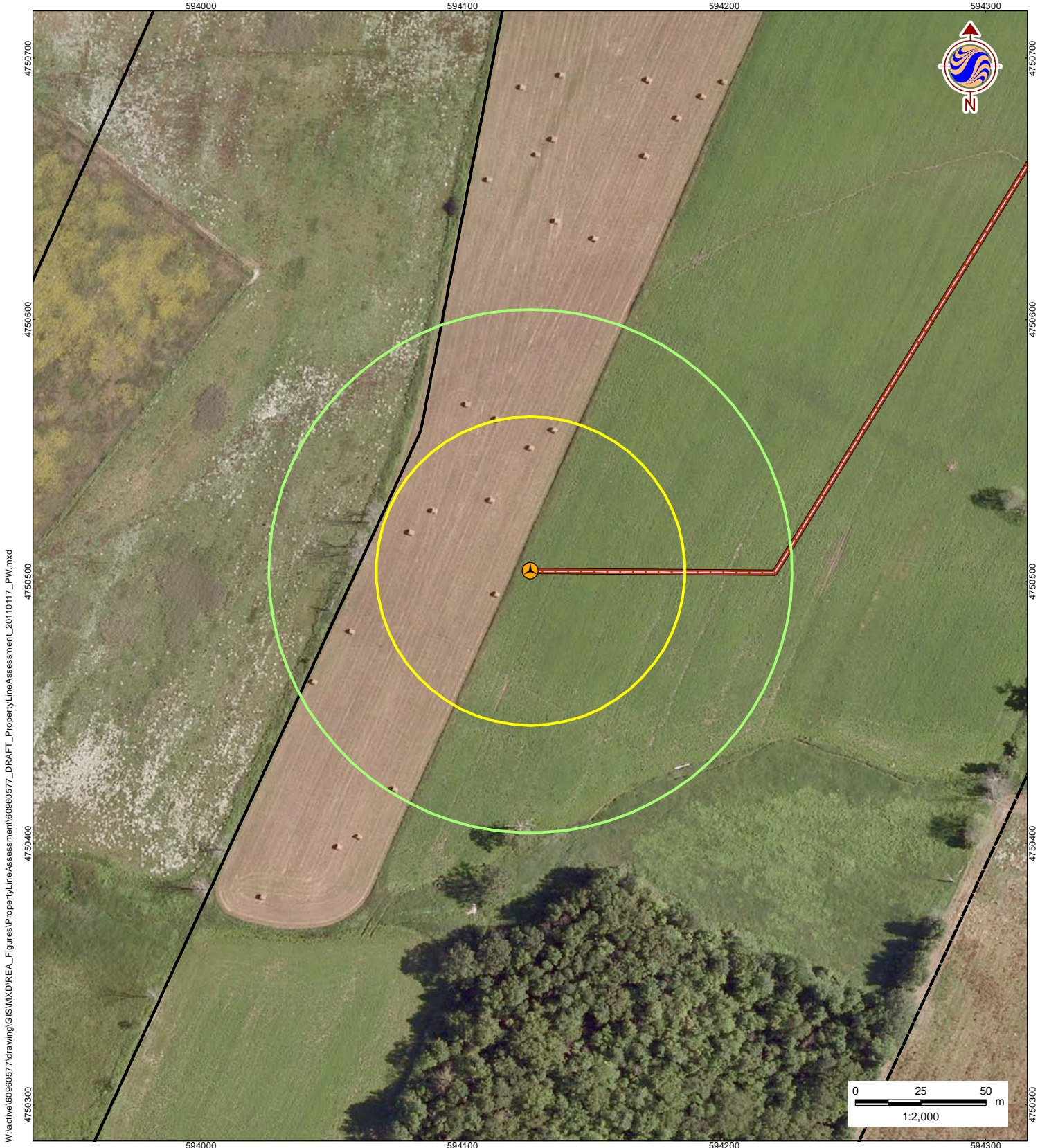
SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.







DRAFT

Title

**PROPERTY LINE
ASSESSMENT - T43**



Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.

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SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.

DRAFT

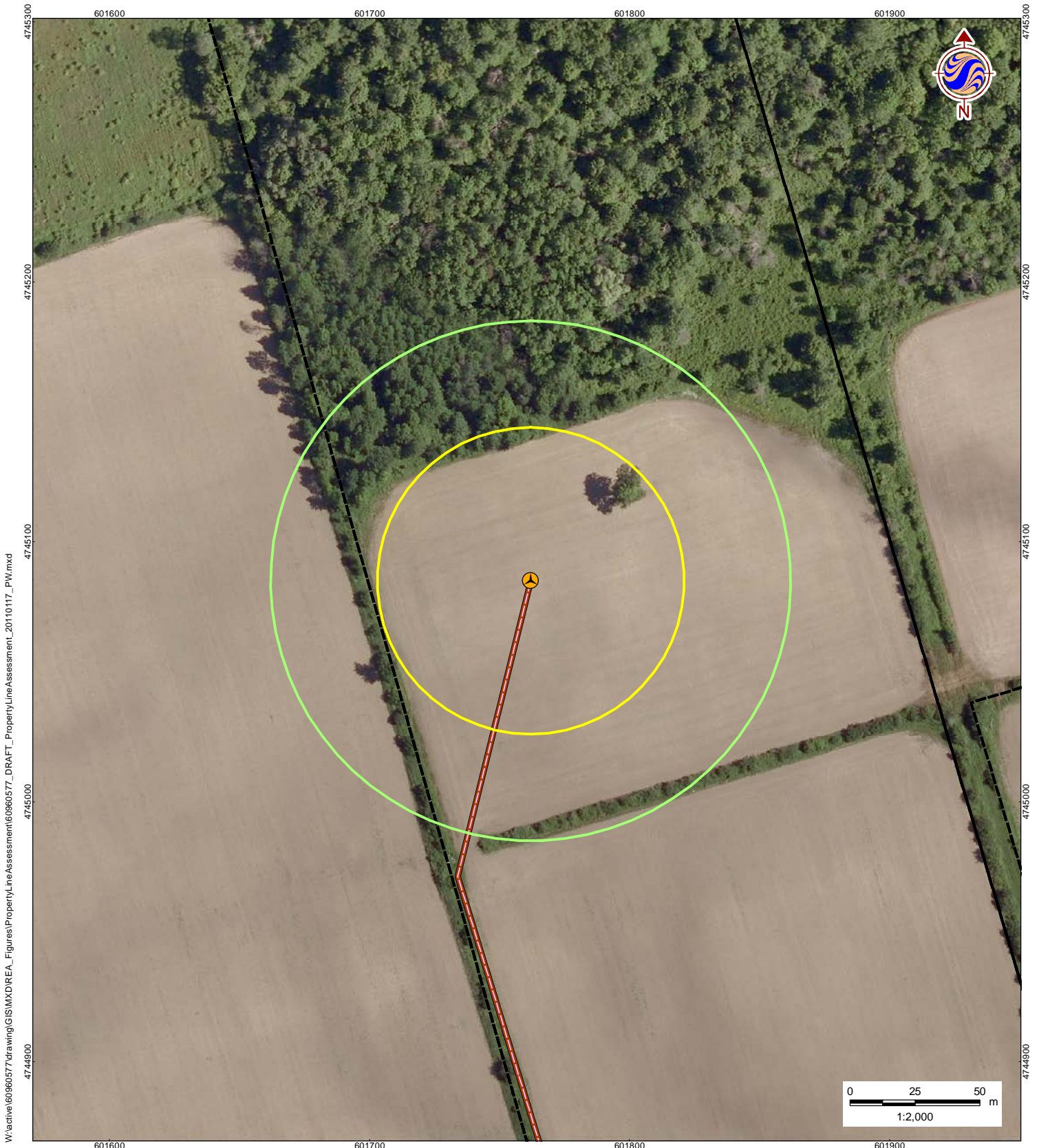
Title

**PROPERTY LINE
ASSESSMENT - T48**



Stantec

January 2011
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January 2011
160960577



Stantec

Legend

- Proposed Turbine Location
- Turbine 59m Buffer
- Turbine 100m Buffer
- Access Road
- Underground Collector Line
- Property Line

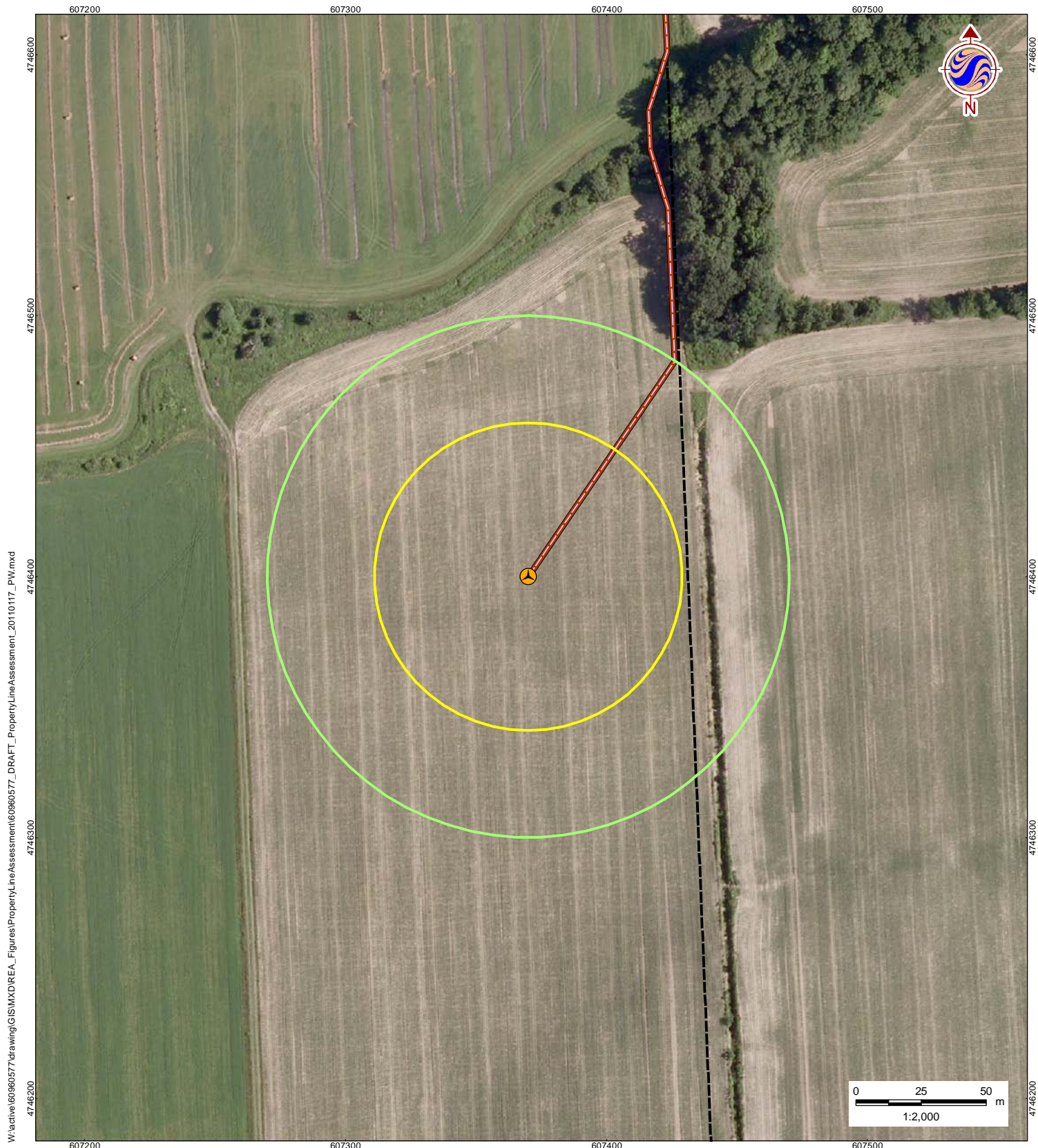
Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.

Client/Project
**SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK**







Figure No.
DRAFT

Title
**PROPERTY LINE
ASSESSMENT - T51**



January 2011
160960577

Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.

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GRAND RENEWABLE ENERGY PARK

Figure No.

DRAFT

Title

**PROPERTY LINE
ASSESSMENT - T54**



Stantec

589600

589700

589800

589900



4750500

4750500

4750400

4750400

4750300

4750300

4750200

4750200

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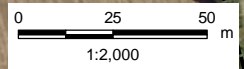
589600

589700

589800







589900

January 2011
160960577



Stantec

Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.

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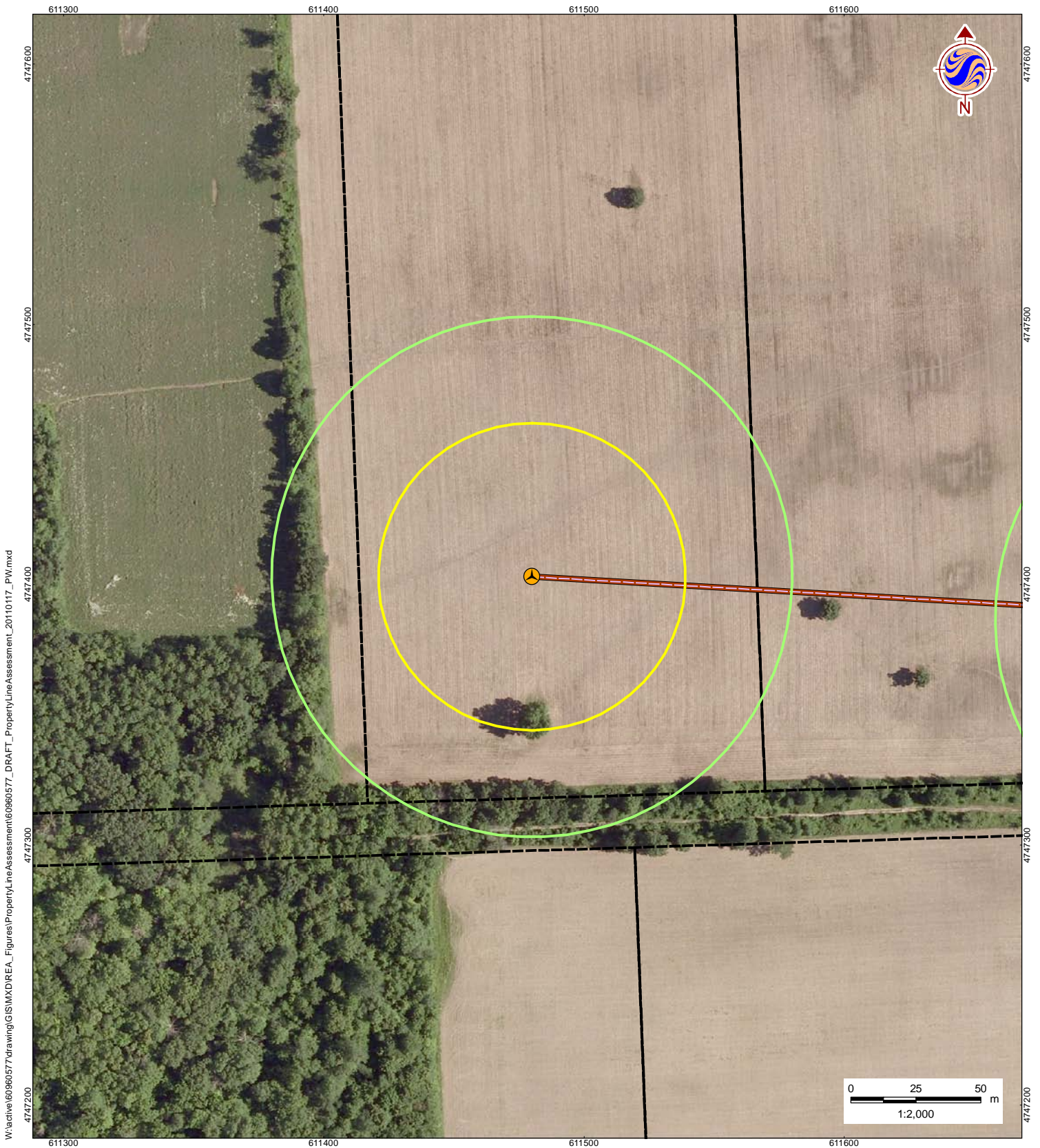
SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.

DRAFT

Title

**PROPERTY LINE
ASSESSMENT - T58**



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January 2011
160960577



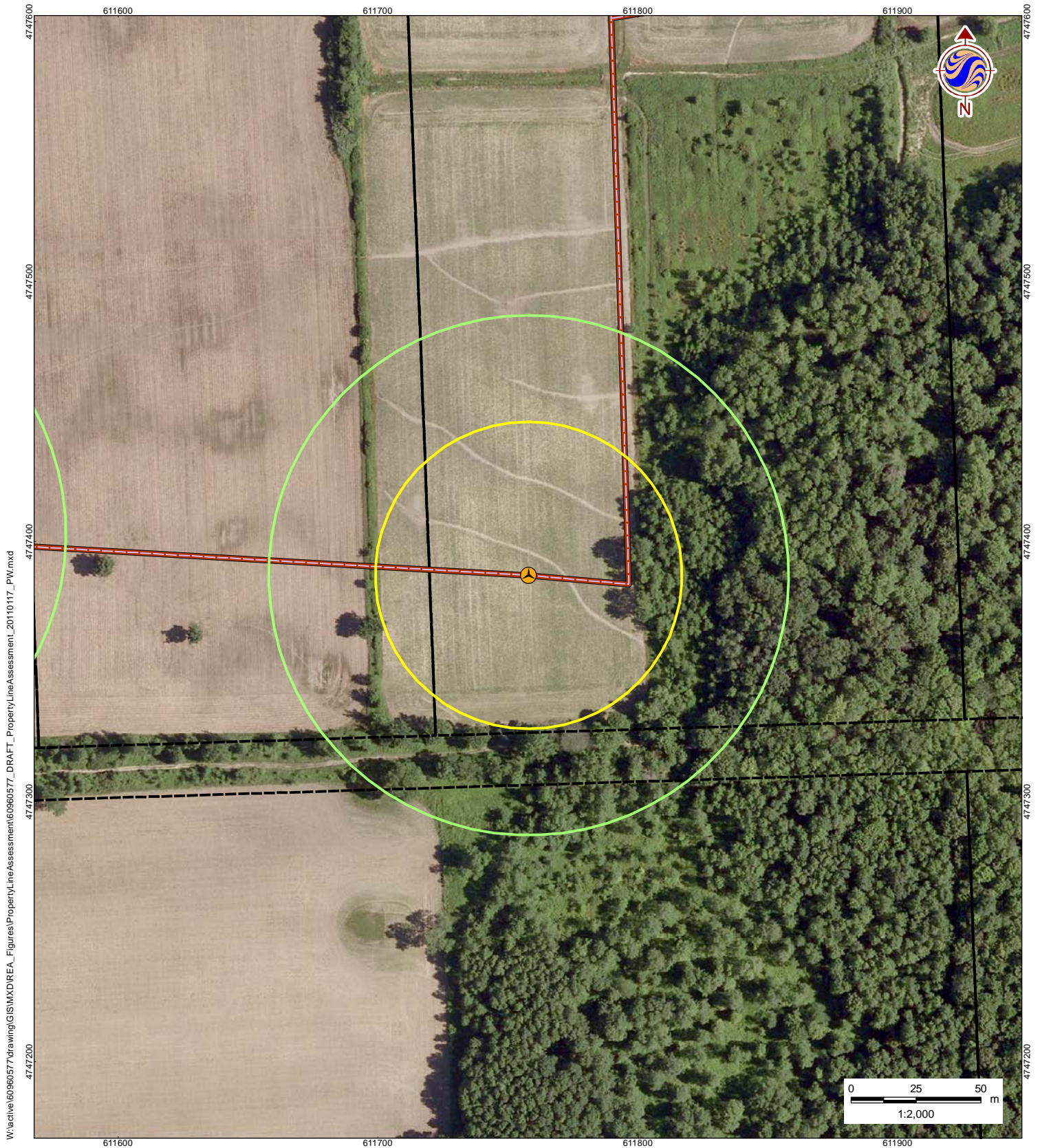
- Legend**
- Proposed Turbine Location
 - Turbine 59m Buffer
 - Turbine 100m Buffer
 - Access Road
 - Underground Collector Line
 - Property Line

- Notes**
1. Coordinate System: UTM NAD 83 - Zone 17.
 2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
 3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.







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SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.
DRAFT

Title
PROPERTY LINE
ASSESSMENT - T65



Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.

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SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.

DRAFT

Title

**PROPERTY LINE
ASSESSMENT - T66**



Stantec

612100

612200

612300

612400

4747800

4747700

4747600

4747500

4747800

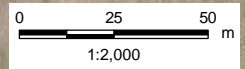
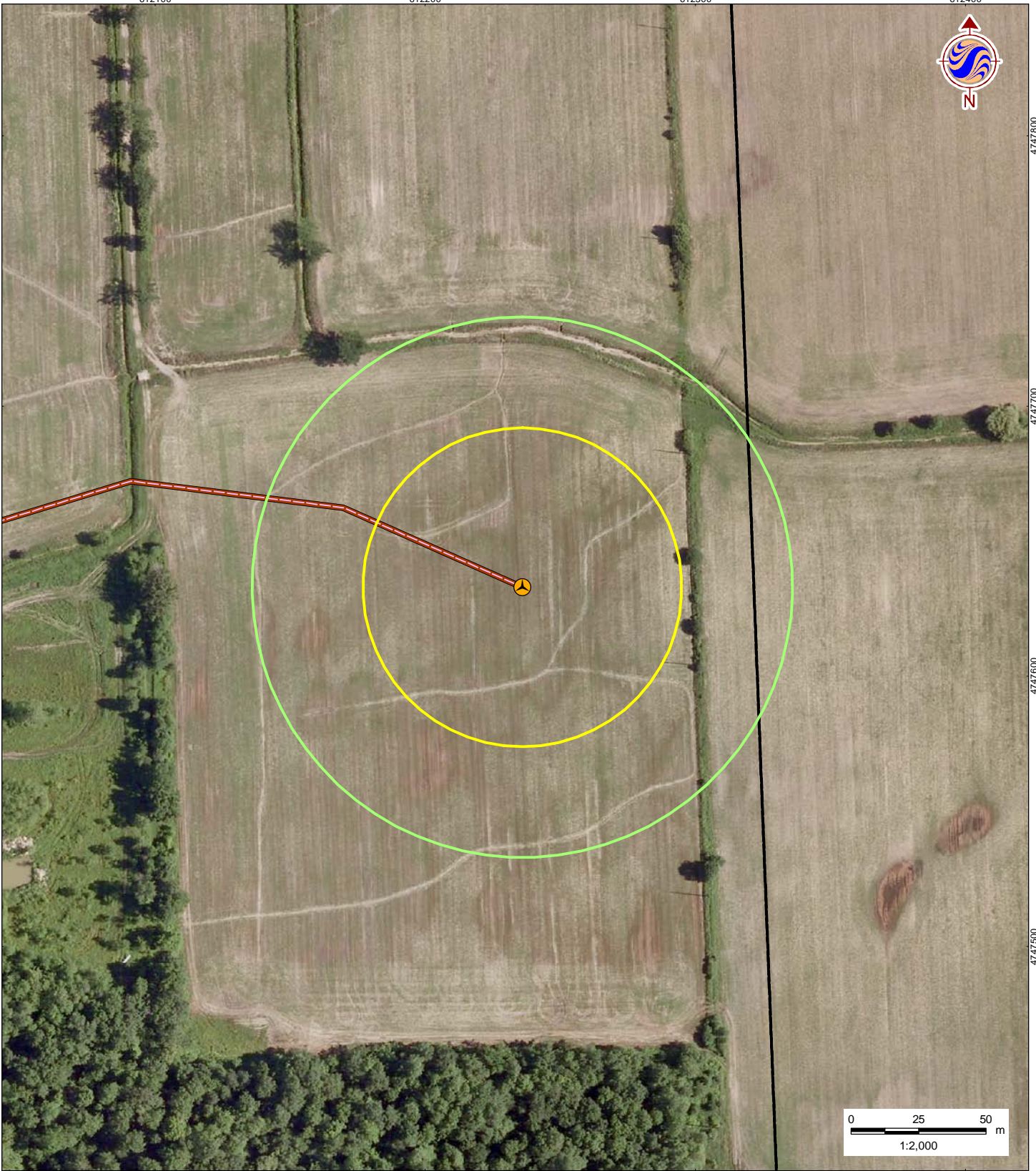
4747700

4747600

4747500









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January 2011
160960577

Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.

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SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK

Figure No.

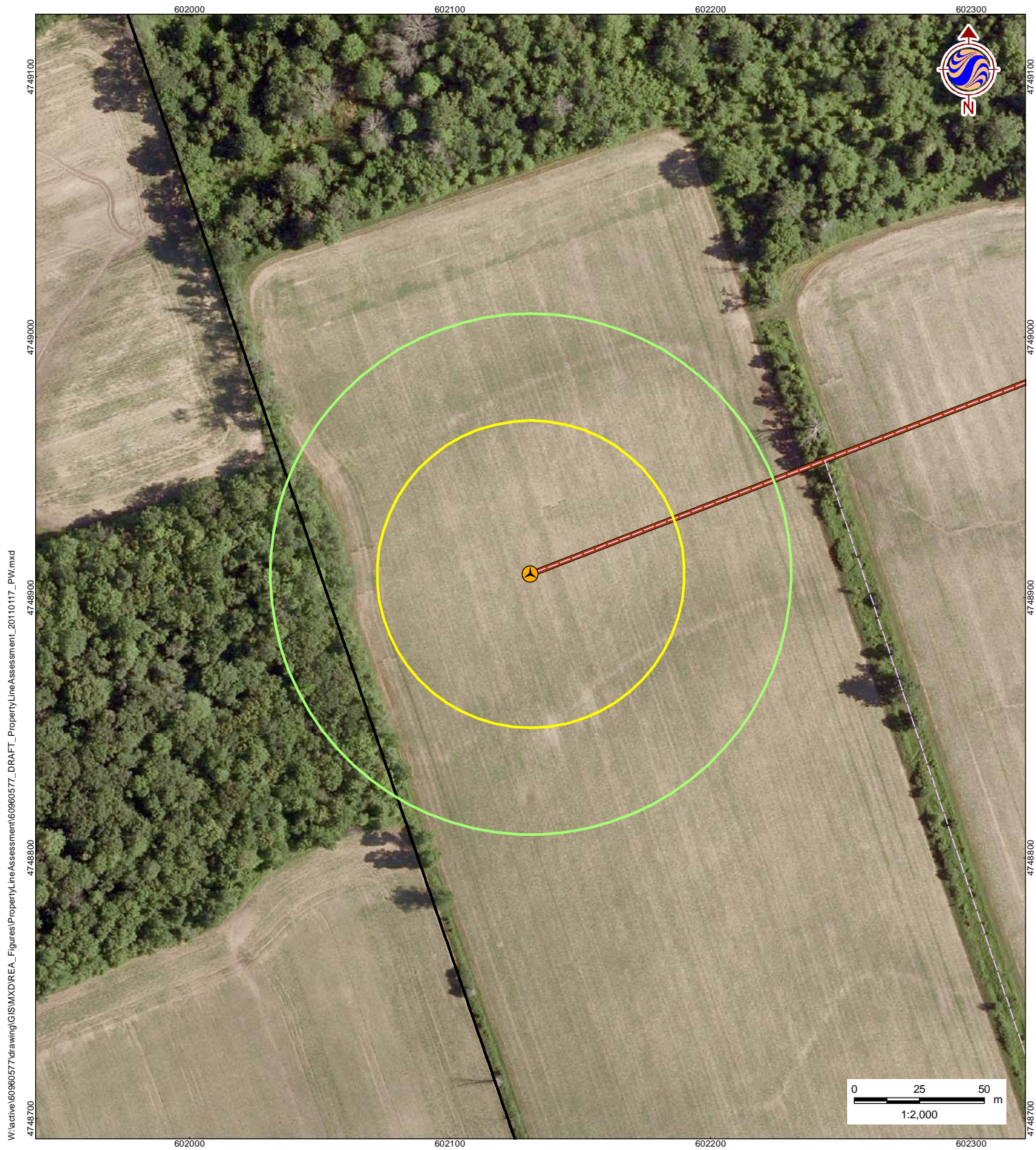
DRAFT

Title

**PROPERTY LINE
ASSESSMENT - T67**









Stantec



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January 2011
160960577

Legend

-  Proposed Turbine Location
-  Turbine 59m Buffer
-  Turbine 100m Buffer
-  Access Road
-  Underground Collector Line
-  Property Line

Notes

1. Coordinate System: UTM NAD 83 - Zone 17.
2. Data Source: Ontario Ministry of Natural Resources © Queens Printer Ontario, 2009.
3. Image Source: Image Source: © Terrapoint, 2009 - Imagery Date: July 2009; © Grand River Conservation Authority, 2010 - Imagery Date: Spring 2006.

Client/Project
**SAMSUNG C&T
GRAND RENEWABLE ENERGY PARK**

Figure No.
DRAFT

Title
**PROPERTY LINE
ASSESSMENT - T68**



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GRAND RENEWABLE ENERGY PARK

PROPERTY LINE SETBACK ASSESSMENT REPORT

Attachment B

Individual Property Line Setback Assessments

Attachment B: Property Line Assessment Summary

Turbine ID	Distance to Property Line (m)	Distance of Overlap (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
10	69	31	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.	The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.
10	99	1	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents.
13	80	20	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse. Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction. Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.
15	97	3	Infrastructure: <input checked="" type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	In the unlikely event of complete turbine collapse in the direction of the road, the turbine may land within the road right-of-way.	The turbine meets the setback distance from public road rights of way, 59 metres, as prescribed in s.53 of O. Reg. 359/09. The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.
17	82	18	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.	The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.

Attachment B: Property Line Assessment Summary

Turbine ID	Distance to Property Line (m)	Distance of Overlap (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
18	87	13	Watercourses: <input type="checkbox"/> Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse or malfunction.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>
21	90	10	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>
24	61	39	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>
28	64	36	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>

Attachment B: Property Line Assessment Summary

Turbine ID	Distance to Property Line (m)	Distance of Overlap (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
29	77	23	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>
30	67	33	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>
36	59	41	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>
41	71	29	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>

Attachment B: Property Line Assessment Summary

Turbine ID	Distance to Property Line (m)	Distance of Overlap (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
43	59	41	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p> <p>Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>
48	61	39	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>
51	60	40	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p> <p>Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.</p>
54	61	39	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.</p>

Attachment B: Property Line Assessment Summary

Turbine ID	Distance to Property Line (m)	Distance of Overlap (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
			Watercourses: <input type="checkbox"/>		Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents.
58	60	40	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents.
65	66	34	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse. Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse. Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction. Mitigation measures for vegetation, including damage and disturbance to related wildlife habitat, are outlined in the REA documents. Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents.
66	81	19	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents.
67	86	14	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.	The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by Samsung for any crop damage, and measures are outlined in the REA documents to mitigate soil compaction.
68	76	24	Infrastructure: <input type="checkbox"/>	Adverse impacts to woodlots, including vegetation damage and disturbance to related wildlife habitat, may	The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme

Attachment B: Property Line Assessment Summary

Turbine ID	Distance to Property Line (m)	Distance of Overlap (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
			Land Use and Businesses <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	occur in the unlikely event of turbine collapse.	weather or malfunction. Additional mitigation measures for woodlots, including vegetation damage and disturbance to related wildlife habitat, are outlined in the REA documents.