Environment

Project Modifications Report – Belle River Wind Project

Prepared by:

AECOM
105 Commerce Valley Drive West, Floor 7 905 886 7022 tel
Markham, ON, Canada L3T 7W3 905 886 9494 fax
www.aecom.com

Date:

November, 2015

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1. Introduction

SP Belle River Wind LP, by its general partner, SP Belle River Wind GP Inc. (Belle River Wind) is proposing to construct the Belle River Wind Project (the Project) in the Town of Lakeshore, Essex County. Belle River Wind is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada ULC ("Pattern Development") and Samsung Renewable Energy Inc. ("Samsung Renewable Energy"). In accordance with the amended Ontario Regulation (O. Reg.) 359/09, Belle River Wind submitted a Renewable Energy Approval (REA) application to the Ontario Ministry of the Environment and Climate Change (MOECC) on May 29, 2015.

This report has been prepared to document modifications to the Belle River Wind REA Reports associated with the removal of Turbines 13, 34 and 41 and adjustments to the placement (<20 m) of Turbines 15, 35, 49, 51, 57 and 206 within the existing Project Location. This REA Project Modification Report documents the edits to the following reports resulting from the proposed amendments:

- Project Description Report;
- Construction Plan Report;
- Design and Operations Report;
- Decommissioning Report;
- Wind Turbine Specifications Report;
- Water Body Assessment and Water Body Report;
- Natural Heritage Assessment;
- Revised Stage 1 Archaeological Assessment Report;
- Stage 2 Archaeological Assessment Report; and
- Heritage Impact Assessment.

1.1 Contact Information

Applicant:

As noted above, Belle River Wind is a joint venture limited partnership owned by affiliates of Pattern Development and Samsung Renewable Energy. The contacts for the Project are as follows:

Jody Law
Project Developer
Pattern Development
355 Adelaide Street West, Suite 100
Toronto, ON M5V 1S2
Phone: (416) 263-8026
Email: jody.law@patternenergy.com

Brian Edwards
Project Developer
Samsung Renewable Energy
2050 Derry Road West, 2nd floor
Mississauga, ON L5N 0B9
Phone: (905) 501-5667
Email: b.edwards@samsung.com

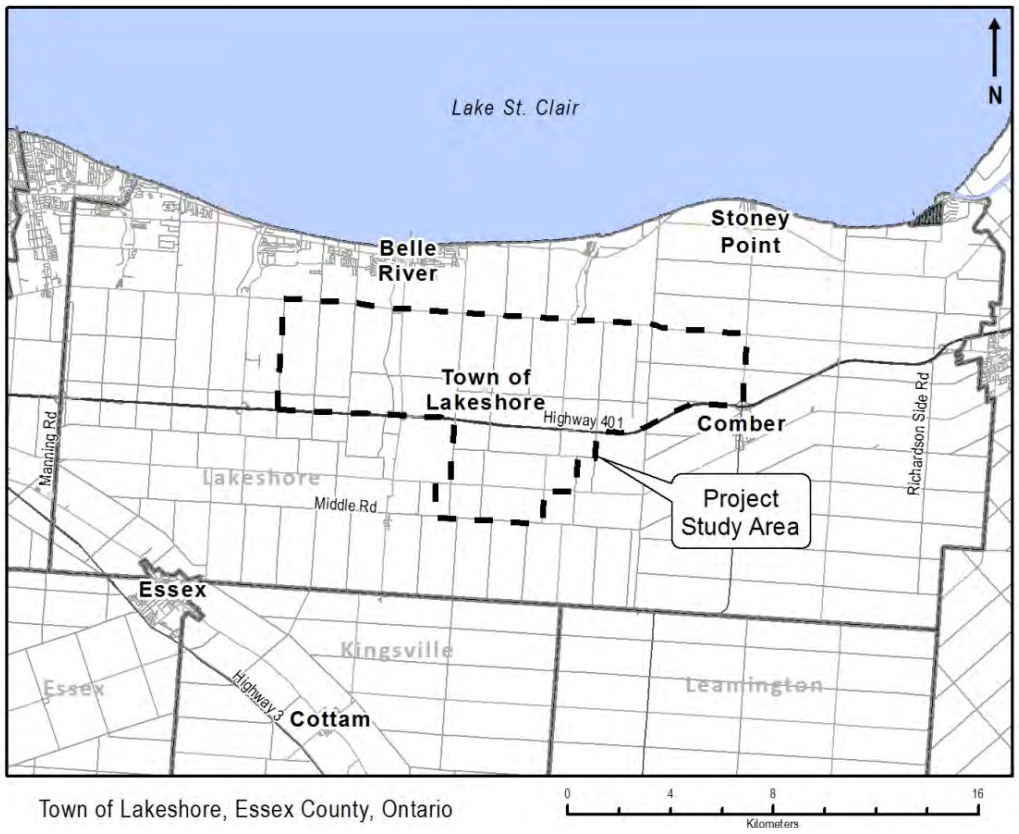
Consultant:

Marc Rose
Senior Environmental Planner
AECOM
105 Commerce Valley Drive West, 7th Floor
Markham, ON L3T 7W3
Phone: (905) 747-7793
Email: marc.rose@aecom.com

1.2 Project Study Area

The Project is located in the Town of Lakeshore in the County of Essex, Ontario (refer to **Figure 1-1**). The Project is generally bounded by County Road 42 to the north, Lakeshore Road 111 to the west, Highway 401 and South Middle Road to the south, and Comber Sideroad to the east. The area encompassed by these boundaries is referred to as the Project Study Area (PSA).

Figure 1-1: Project Study Area



2. Proposed Project Modification

Belle River Wind is removing Turbines 13, 34 and 41 and adjusting the placement of Turbines 15, 35, 49, 51, 57 and 206 to address comments and data received during the technical review of the REA application. As a result, the Project Location has been modified. The table below provides the new coordinates of turbines that have moved.

ID	X	Y
T15	360191.00	4677673.00
T206	357677.00	4677992.00
T35	364337.00	4677175.00
T49	368803.00	4679032.00
T51	361641.37	4680753.00
T57	370544.00	4678825.00

Appendix A provides a revised project overview map and individual maps illustrating each of the Project modifications on a separate figure.

3. Edits to the REA Reports

Table 3-1 documents the edits to the REA Reports resulting from the modifications described in **Section 2**. The table includes the text from the original REA submission (May, 2015) and edits to the text (underlined text represents additions and strikethrough text represents deletions).

Table 3-1 Edits to the REA Reports

Section / Page in REA Report	REA Report text	Revised Text (Underlined text represents additions and ~~strikethrough text~~ represents deletions.)
Project Description Report		
Section 1.4 / page 5	Up to 49 turbine locations are currently being assessed for the Project.	Up to ~~49~~ 46 turbine locations are currently being assessed for the Project.
Table 1-2 / page 5-6	**Project Area** *Total Area of Project Location (total disturbance area):* 1,760 acres **Wind Turbine Generators** *Total Number Permitted:* 49 turbines *Approximate Number Constructed:* 44 turbines *Nominal Turbine Power:* 2.257 to 3.2 MW **Access Roads** *Access Roads – Operations (includes shoulder, travel width and ditch):* 49 kilometres (“km”) x 8 to 12 m *Access Roads – Construction (with shoulder):* 49 km x 8 to 15 m **Collector Lines** *34.5 kV Collector Lines on Private Lands (underground):* 49 km x 2 to 6 m	**Project Area** *Total Area of Project Location (total disturbance area):* ~~1,760~~ 1,735 acres **Wind Turbine Generators** *Total Number Permitted:* ~~49~~ 46 turbines *Approximate Number Constructed:* ~~44~~ 41 turbines *Nominal Turbine Power:* ~~2.257~~ 2.37 to 3.2 MW **Access Roads** *Access Roads – Operations (includes shoulder, travel width and ditch):* ~~49~~ 45 kilometres (“km”) x 8 to 12 m *Access Roads – Construction (with shoulder):* ~~49~~ 45 km x 8 to 15 m **Collector Lines** *34.5 kV Collector Lines on Private Lands (underground):* ~~49~~ 45 km x 2 to 6 m
Table 2-1 / page 9	**Wind Turbine Generators:** The Project will include commercial wind turbines, namely the Siemens SWT-3.2-113 turbine, with a nominal power of 2.257 to 3.2 MW.	**Wind Turbine Generators:** The Project will include commercial wind turbines, namely the Siemens SWT-3.2-113 turbine, with a nominal power of ~~2.257~~ 2.37 to 3.2 MW.
Section 4.6.1 / page 44	*Adjacent Properties* Twenty-six (26) turbines were identified to require assessment due to their proximity to adjacent property lines.	*Adjacent Properties* ~~Twenty-six (26)~~ Twenty-two (22) turbines were identified to require assessment due to their proximity to adjacent property lines.
Construction Plan Report		
Table 1-2 / page 5	**Project Area** *Total Area of Project Location (total disturbance area):* 1,760 acres **Wind Turbine Generators** *Total Number Permitted:* 49 turbines *Approximate Number Constructed:* 44 turbines *Nominal Turbine Power:* 2.257 to 3.2 MW **Access Roads** *Access Roads – Operations (includes shoulder, travel width and ditch):* 49 kilometres (“km”) x 8 to 12 m *Access Roads – Construction (with shoulder):* 49 km x 8 to 15 m **Collector Lines** *34.5 kV Collector Lines on Private Lands (underground):* 49 km x 2 to 6 m	**Project Area** *Total Area of Project Location (total disturbance area):* ~~1,760~~ 1,735 acres **Wind Turbine Generators** *Total Number Permitted:* ~~49~~ 46 turbines *Approximate Number Constructed:* ~~44~~ 41 turbines *Nominal Turbine Power:* ~~2.257~~ 2.37 to 3.2 MW **Access Roads** *Access Roads – Operations (includes shoulder, travel width and ditch):* ~~49~~ 45 kilometres (“km”) x 8 to 12 m *Access Roads – Construction (with shoulder):* ~~49~~ 45 km x 8 to 15 m **Collector Lines** *34.5 kV Collector Lines on Private Lands (underground):* ~~49~~ 45 km x 2 to 6 m
Table 2-1 / page 6	**Wind Turbine Generators:** The Project will include commercial wind turbines, namely the Siemens SWT-3.2-113 turbine, with a nominal power of 2.257 to 3.2 MW.	**Wind Turbine Generators:** The Project will include commercial wind turbines, namely the Siemens SWT-3.2-113 turbine, with a nominal power of ~~2.257~~ 2.37 to 3.2 MW.
Table 3-2 / page 15	**Road Length:** 50 km	**Road Length:** ~~50~~ 45 km
Section 4 / page 24	This description of effects was completed for all 49 turbines and associated infrastructure shown on the Project Location figures. However, note that only approximately 44 turbines will be constructed resulting in a conservative assessment of effects.	This description of effects was completed for all ~~49~~ 46 turbines and associated infrastructure shown on the Project Location figures. However, note that only approximately ~~44~~ 41 turbines will be constructed resulting in a conservative assessment of effects.
Design and Operations Report		
Table 1-2 / page 5	**Project Area** *Total Area of Project Location (total disturbance area):* 1,760 acres **Wind Turbine Generators** *Total Number Permitted:* 49 turbines *Approximate Number Constructed:* 44 turbines	**Project Area** *Total Area of Project Location (total disturbance area):* ~~1,760~~ 1,735 acres **Wind Turbine Generators** *Total Number Permitted:* ~~49~~ 46 turbines *Approximate Number Constructed:* ~~44~~ 41 turbines

Table 3-1 Edits to the REA Reports

Section / Page in REA Report	REA Report text	Revised Text (Underlined text represents additions and ~~strikethrough text~~ represents deletions.)
	Nominal Turbine Power: 2.257 to 3.2 MW **Access Roads** *Access Roads – Operations (includes shoulder, travel width and ditch):* 49 kilometres ("km") x 8 to 12 m *Access Roads – Construction (with shoulder):* 49 km x 8 to 15 m **Collector Lines** *34.5 kV Collector Lines on Private Lands (underground):* 49 km x 2 to 6 m	*Nominal Turbine Power:* ~~2.257~~ 2.37 to 3.2 MW **Access Roads** *Access Roads – Operations (includes shoulder, travel width and ditch):* ~~49~~ 45 kilometres ("km") x 8 to 12 m *Access Roads – Construction (with shoulder):* ~~49~~ 45 km x 8 to 15 m **Collector Lines** *34.5 kV Collector Lines on Private Lands (underground):* ~~49~~ 45 km x 2 to 6 m
Section 3.1 / page 14	Up to 49 turbine locations are currently being assessed for the Project.	Up to ~~49~~ 46 turbine locations are currently being assessed for the Project.
Table 3-1 / page 14	**Nominal Power:** 2.257 to 3.2 MW	**Nominal Power:** ~~2.257~~ 2.37 to 3.2 MW
Section 6.6 – page 35	*Adjacent Businesses and Properties* Twenty-six (26) turbines were identified to require assessment due to their proximity to adjacent property lines.	*Adjacent Businesses and Properties* ~~Twenty-six (26)~~ Twenty-two (22) turbines were identified to require assessment due to their proximity to adjacent property lines.
Appendix C: Noise Impact Assessment (NIA)		
An updated NIA report has been prepared to document the layout changes described in this report, and is included as **Appendix B**.		
Appendix D: Property Line Setback Assessment		
Section 1.1 / page 1	AECOM analyzed twenty-five (25) turbines within the Belle River Wind Project to evaluate any anticipated impacts to businesses, infrastructure, properties and land use activities and, where required, present mitigation measures to address any potential adverse impacts.	AECOM analyzed ~~twenty-five (25)~~ twenty-two (22) turbines within the Belle River Wind Project to evaluate any anticipated impacts to businesses, infrastructure, properties and land use activities and, where required, present mitigation measures to address any potential adverse impacts.
Table 1 / page 2	**Total Number Permitted:** 49 turbines **Approximate Number Constructed:** 44 turbines **Nominal Turbine Power:** 2.257 to 3.2 MW	**Total Number Permitted:** ~~49~~ 46 turbines **Approximate Number Constructed:** ~~44~~ 41 turbines **Nominal Turbine Power:** ~~2.257~~ 2.37 to 3.2 MW
Section 1.3 / page 2	For this Project there are twenty-five (25) turbines which require further assessment to identify any potential impacts associated with siting the turbines closer than the turbine hub height (99.5 m) from a property line.	For this Project there are ~~twenty-five (25)~~ twenty-two (22) turbines which require further assessment to identify any potential impacts associated with siting the turbines closer than the turbine hub height (99.5 m) from a property line.
Section 2 / page 5	**Desktop Analysis of Setback Distances** Based on a turbine hub height of 99.5 m, AECOM conducted an assessment of all turbines located within 100.5 m of a property line (Turbines 8, 12-13, 15-16, 28, 30, 34, 36, 40-41, 44-46, 51-53, 55, 57-58, 201, 205-206, 215, 219).	**Desktop Analysis of Setback Distances** Based on a turbine hub height of 99.5 m, AECOM conducted an assessment of all turbines located within 100.5 m of a property line (Turbines 8, 12~~-13~~, 15-16, 28, 30, ~~34,~~ 36, 40~~-41~~, 44-46, 51-53, 55, 57-58, 201, 205-206, 215, 219).
Section 3 / page 6	Based on the analysis of the twenty-five (25) turbines requiring justification for the reduced property line setback, there are no anticipated adverse impacts for the reduced setbacks once the standard preventative measures based on best management practices have been applied.	Based on the analysis of the ~~twenty-five (25)~~ twenty-two (22) turbines requiring justification for the reduced property line setback, there are no anticipated adverse impacts for the reduced setbacks once the standard preventative measures based on best management practices have been applied.
Appendix A / page 1	**Turbine ID: 13** **UTM Coordinates (X):** 360195.00 **UTM Coordinates (Y):** 4678053.00 **Host Land Parcel #:** 1795 **Host Land Parcel Street:** 2nd Concession Rd **Turbine Distance from Non-participating Lot Line (m):** 100.03 **Direction of Neighbouring Land Parcel from Turbine:** North **Neighbouring Land Parcel #:** 1749 **Neighbouring Land Parcel Street:** 2nd Concession Rd **Town of Lakeshore Official Plan Designation:** Agricultural **Town of Lakeshore Zoning By-law:** A* **Turbine ID: 15** **UTM Coordinates (Y):** 4677676.00 **Turbine Distance from Non-participating Lot Line:** 72.47 **Turbine ID: 34** **UTM Coordinates (X):** 364101.00 **UTM Coordinates (Y):** 4677811.00 **Host Land Parcel #:** 1751 **Host Land Parcel Street:** County Rd 31 **Turbine Distance from Non-participating Lot Line (m):** 66.99 **Direction of Neighbouring Land Parcel from Turbine:** North **Neighbouring Land Parcel #:** 1721 **Neighbouring Land Parcel Street:** County Rd 31 **Town of Lakeshore Official Plan Designation:** Agricultural **Town of Lakeshore Zoning By-law:** A* **Field Notes:** No structures (i.e., barns, storage buildings, stables) are present within 100.5 m of the turbine on nonparticipating properties as	~~**Turbine ID: 13**~~ ~~**UTM Coordinates (X):** 360195.00~~ ~~**UTM Coordinates (Y):** 4678053.00~~ ~~**Host Land Parcel #:** 1795~~ ~~**Host Land Parcel Street:** 2nd Concession Rd~~ ~~**Turbine Distance from Non-participating Lot Line (m):** 100.03~~ ~~**Direction of Neighbouring Land Parcel from Turbine:** North~~ ~~**Neighbouring Land Parcel #:** 1749~~ ~~**Neighbouring Land Parcel Street:** 2nd Concession Rd~~ ~~**Town of Lakeshore Official Plan Designation:** Agricultural~~ ~~**Town of Lakeshore Zoning By-law:** A*~~ **Turbine ID: 15** **UTM Coordinates (Y):** ~~4677676.00~~ 4677673.00 **Turbine Distance from Non-participating Lot Line:** ~~72.47~~ 75.46 ~~**Turbine ID: 34**~~ ~~**UTM Coordinates (X):** 364101.00~~ ~~**UTM Coordinates (Y):** 4677811.00~~ ~~**Host Land Parcel #:** 1751~~ ~~**Host Land Parcel Street:** County Rd 31~~ ~~**Turbine Distance from Non-participating Lot Line (m):** 66.99~~ ~~**Direction of Neighbouring Land Parcel from Turbine:** North~~ ~~**Neighbouring Land Parcel #:** 1721~~ ~~**Neighbouring Land Parcel Street:** County Rd 31~~ ~~**Town of Lakeshore Official Plan Designation:** Agricultural~~ ~~**Town of Lakeshore Zoning By-law:** A*~~ ~~**Field Notes:** No structures (i.e., barns, storage buildings, stables) are present within 100.5 m of the turbine on nonparticipating properties as~~

Table 3-1 Edits to the REA Reports

Section / Page in REA Report	REA Report text	Revised Text (Underlined text represents additions and ~~strikethrough text~~ represents deletions.)
	shown on the orthographic mapping in Appendix B. **Turbine ID: 41** **UTM Coordinates (X):** 365744.00 **UTM Coordinates (Y):** 4679900.00 **Host Land Parcel #:** 1429 **Host Land Parcel Street:** 6th Concession Rd **Turbine Distance from Non-participating Lot Line (m):** 85.80 / 65.71 **Direction of Neighbouring Land Parcel from Turbine:** Northeast / North **Neighbouring Land Parcel #:** 1399 **Neighbouring Land Parcel Street:** 6th Concession Rd **Town of Lakeshore Official Plan Designation:** Agricultural / Agricultural **Town of Lakeshore Zoning By-law:** A* / A* **Field Notes:** No structures (i.e., barns, storage buildings, stables) are present within 100.5 m of the turbine on nonparticipating properties as shown on the orthographic mapping in Appendix B. **Turbine ID: 51** **UTM Coordinates (Y):** 4680760.00 **Turbine Distance from Non-participating Lot Line:** 66.52 / 95.13 / 66.90 **Turbine ID: 57** **UTM Coordinates (X):** 370541.00 **UTM Coordinates (Y):** 4678833.00 **Turbine Distance from Non-participating Lot Line:** 67.57 **Turbine ID: 206** **UTM Coordinates (Y):** 4677986.00 **Turbine Distance from Non-participating Lot Line:** 74.92 / 83.52	~~shown on the orthographic mapping in Appendix B.~~ ~~**Turbine ID: 41**~~ ~~**UTM Coordinates (X):** 365744.00~~ ~~**UTM Coordinates (Y):** 4679900.00~~ ~~**Host Land Parcel #:** 1429~~ ~~**Host Land Parcel Street:** 6th Concession Rd~~ ~~**Turbine Distance from Non-participating Lot Line (m):** 85.80 / 65.71~~ ~~**Direction of Neighbouring Land Parcel from Turbine:** Northeast / North~~ ~~**Neighbouring Land Parcel #:** 1399~~ ~~**Neighbouring Land Parcel Street:** 6th Concession Rd~~ ~~**Town of Lakeshore Official Plan Designation:** Agricultural / Agricultural~~ ~~**Town of Lakeshore Zoning By-law:** A* / A*~~ ~~**Field Notes:** No structures (i.e., barns, storage buildings, stables) are present within 100.5 m of the turbine on nonparticipating properties as shown on the orthographic mapping in Appendix B.~~ **Turbine ID: 51** **UTM Coordinates (Y):** ~~4680760.00~~ 4680753.00 **Turbine Distance from Non-participating Lot Line:** ~~66.52~~ 73.50 / ~~95.13~~ 99.64 / ~~66.90~~ 66.05 **Turbine ID: 57** **UTM Coordinates (X):** ~~370541.00~~ 370544.00 **UTM Coordinates (Y):** ~~4678833.00~~ 4678825.00 **Turbine Distance from Non-participating Lot Line:** ~~67.57~~ 71.17 **Turbine ID: 206** **UTM Coordinates (Y):** ~~4677986.00~~ 4677992.00 **Turbine Distance from Non-participating Lot Line:** ~~74.92~~ 74.28 / ~~83.52~~ 78.37
Decommissioning Plan Report		
Table 1-2 / page 5	**Project Area** *Total Area of Project Location (total disturbance area):* 1,760 acres **Wind Turbine Generators** *Total Number Permitted:* 49 turbines *Approximate Number Constructed:* 44 turbines *Nominal Turbine Power:* 2.257 to 3.2 MW **Access Roads** *Access Roads – Operations (includes shoulder, travel width and ditch):* 49 kilometres (“km”) x 8 to 12 m *Access Roads – Construction (with shoulder):* 49 km x 8 to 15 m **Collector Lines** *34.5 kV Collector Lines on Private Lands (underground):* 49 km x 2 to 6 m	**Project Area** *Total Area of Project Location (total disturbance area):* ~~1,760~~ 1,735 acres **Wind Turbine Generators** *Total Number Permitted:* ~~49~~ 46 turbines *Approximate Number Constructed:* ~~44~~ 41 turbines *Nominal Turbine Power:* ~~2.257~~ 2.37 to 3.2 MW **Access Roads** *Access Roads – Operations (includes shoulder, travel width and ditch):* ~~49~~ 45 kilometres (“km”) x 8 to 12 m *Access Roads – Construction (with shoulder):* ~~49~~ 45 km x 8 to 15 m **Collector Lines** *34.5 kV Collector Lines on Private Lands (underground):* ~~49~~ 45 km x 2 to 6 m
Wind Turbine Specification Report		
Section 2.1 / page 5	Up to 49 turbines and associated infrastructure are being assessed for the Project. However, note that approximately 44 turbines will be constructed, depending on the nominal rating of each turbine.	Up to ~~49~~ 46 turbines and associated infrastructure are being assessed for the Project. However, note that approximately ~~44~~ 41 turbines will be constructed, depending on the nominal rating of each turbine.
Table 2-1 / page 5	**Project Area** *Total Area of Project Location (total disturbance area):* 1,760 acres **Wind Turbine Generators** *Total Number Permitted:* 49 turbines *Approximate Number Constructed:* 44 turbines *Nominal Turbine Power:* 2.257 to 3.2 MW	**Project Area** *Total Area of Project Location (total disturbance area):* ~~1,760~~ 1,735 acres **Wind Turbine Generators** *Total Number Permitted:* ~~49~~ 46 turbines *Approximate Number Constructed:* ~~44~~ 41 turbines *Nominal Turbine Power:* ~~2.257~~ 2.37 to 3.2 MW

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Natural Heritage Assessment (NHA) & Environmental Impact Study		
An Addendum to the NHA has been prepared to provide an overview of changes to the proposed Project layout, and is included as **Appendix C** along with a confirmation letter from the Ministry of Natural Resources and Forestry. Due to the proposed changes in layout, there have been minor changes in distances from significant natural features and wildlife habitats to project components. Two treated as significant wildlife habitats, AWO-004 and MBB-001, are no longer within 120m of a project component. Minor changes in distances to the following significant natural features or wildlife habitats will occur: WOD-009, WET-015, EWP-004, PMI-002, CPR-002, UCF-004 and HHA-004, all of which are no longer located within 120m of a proposed wind turbine. In addition, these changes have not resulted in the presence of any additional candidate significant or significant natural features or wildlife habitats within the Project Area.		
Water Body Assessment and Water Body Report		
There are no edits to the Water Body Assessment or Water Body Report resulting from the modification described in **Section 2**.		
Revised Stage 1 Archaeological Assessment		
There are no edits to the Revised Stage 1 Archaeological Assessment resulting from the modification described in **Section 2**. The project modifications were submitted to the Ministry of Culture, Tourism and Sport for review and confirmation was received that no changes to the reports are required.		
Stage 2 Archaeological Assessment		
There are no edits to the Revised Stage 1 Archaeological Assessment resulting from the modification described in **Section 2**. The project modifications were submitted to the Ministry of Culture, Tourism and Sport for review and confirmation was received that no changes to the reports are required.		
Heritage Impact Assessment		
There are no edits to the Heritage Impact Assessment resulting from the modification described in **Section 2**.		

4. Public, Agency and Stakeholder Notification

A Notice of a Proposed Change to the Renewable Energy Approval Application for the Belle River Wind Project was published and distributed within the local community to inform them of the changes to the Project. The notice identified that a Project Modifications Report had been prepared and was available for review on the project website. A copy of the public notice is provided in **Appendix E**.

In accordance with the amended O. Reg. 359/09, the notice was distributed broadly within the Town of Lakeshore. It was mailed via Canada Post Admail to approximately 12,000 residences and businesses throughout the PSA and was published in the following newspapers:

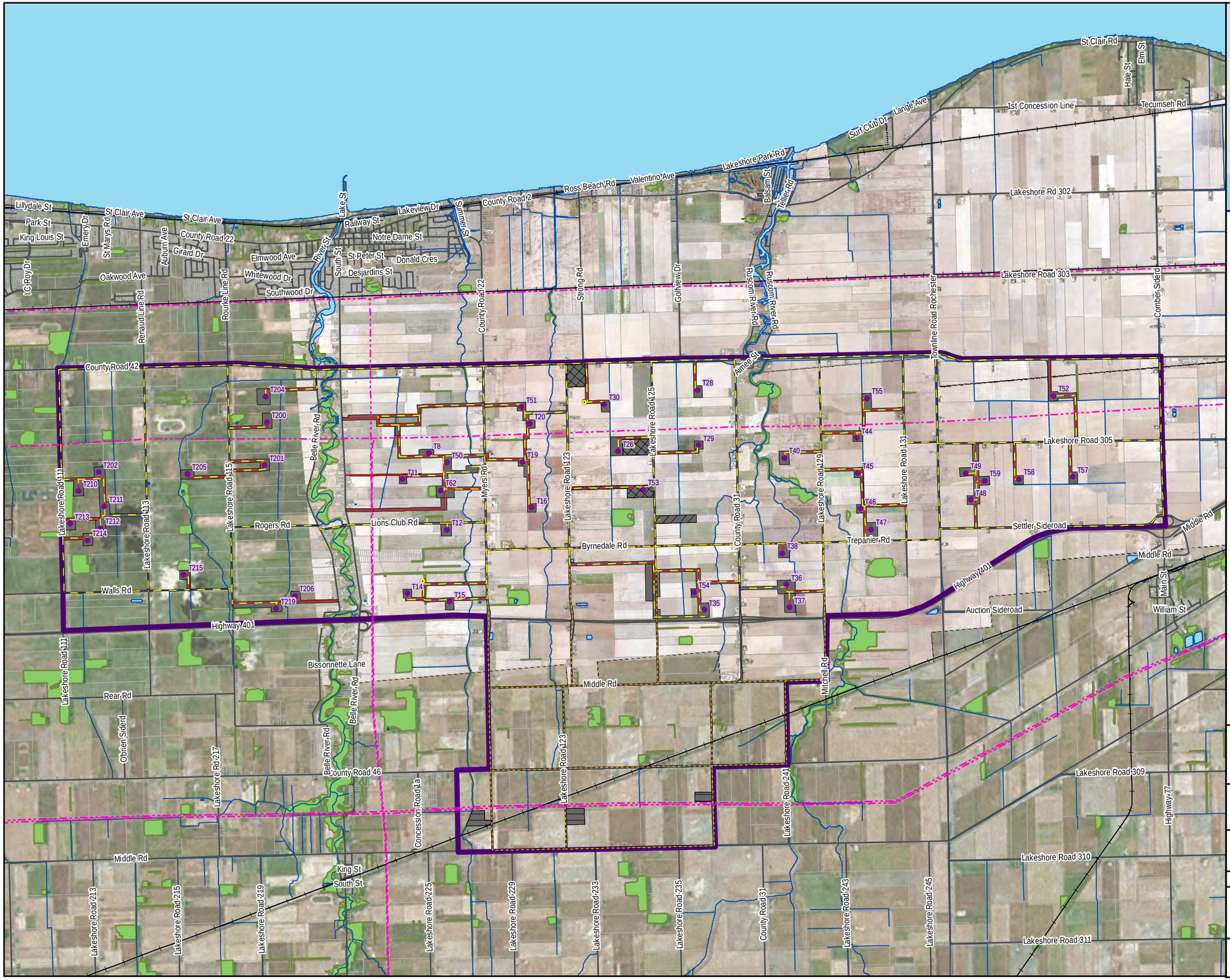
- Turtle Island News on November 25, 2015;
- Le Rampart (French language notice) on November 25, 2015;
- Lakeshore News on November 26, 2015; and,
- Essex Free Press on November 26, 2015.

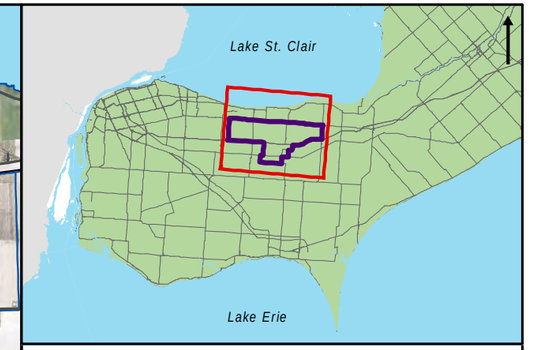
In addition, the notice was posted on the Project's website (www.belleriverwind.com) on November 25, 2015, and was mailed to relevant federal and provincial agency contacts, local municipalities and potentially interested Aboriginal communities.

5. Summary and Conclusion

The Project modifications described in this report do not change the overall conclusion of the Project Description Report (May, 2015) which states that **"this Project can be constructed, installed, operated, and decommissioned without any significant adverse net effects to the environment. Post-construction monitoring, including effects on wildlife such as birds and bats, will be undertaken to confirm this conclusion**".

Appendix A – Project Layout Modifications





N

Project Layout

- Turbines
- Meteorological Tower
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operations & Maintenance Building

Base Layers

- Roads
- Rail Roads
- Existing Transmission Lines
- Property Boundaries
- Waterbodies
- Wooded Areas
- Project Study Area

0 1 2 4
Kilometres

Belle River Wind Project

Project Location

November 2015	1:60,000	Datum: NAD 83, Zone 17 Source: OBM, BING 2012
P#: 60321891	V#: 002	

AECOM

Figure 2-1

Map location: F:\AECOM-Work\60321891-Belle River\Design\REA\FINAL_Feb2015\Belle_Project Location_20150209.mxd
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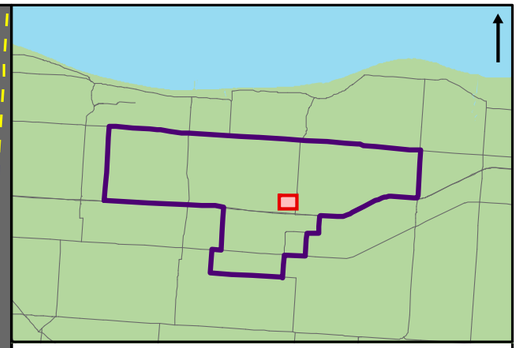

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

N

0 50 100 200

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:3,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM
AECOM Canada Ltd.

Figure 1-A

Map location: F:\AECOM Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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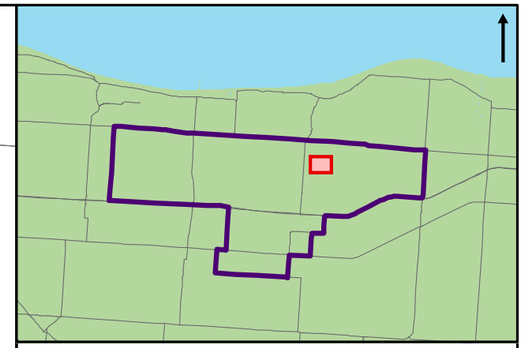

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 60 120 240

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:3,500	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM
AECOM Canada Ltd.

Figure 1-B

Map location: F:\AECOM-Wo\60\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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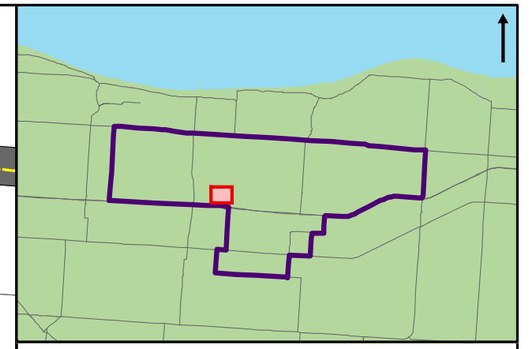

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

N

0 60 120 240

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:3,500	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

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Figure 1-C

Map location: F:\AECOM-Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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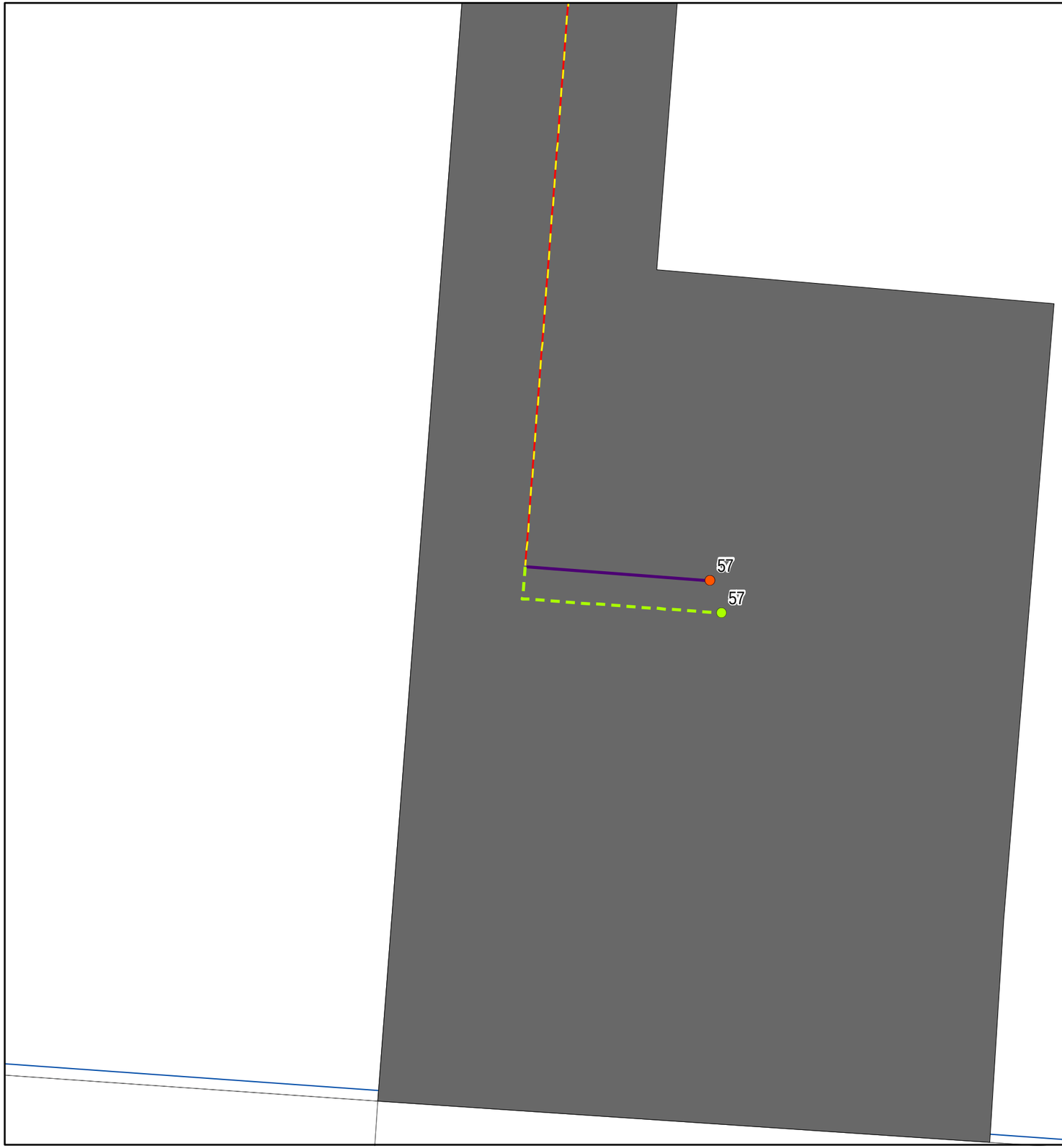

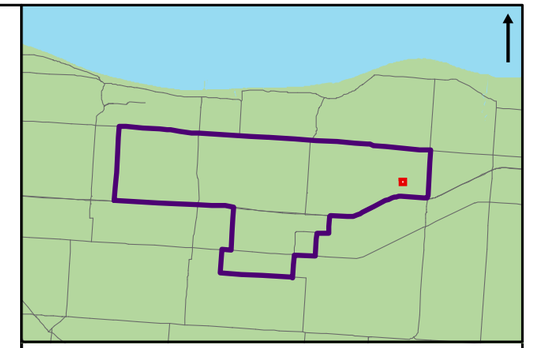

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

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Figure 1-D

Map location: F:\AECOM Work\60321891 Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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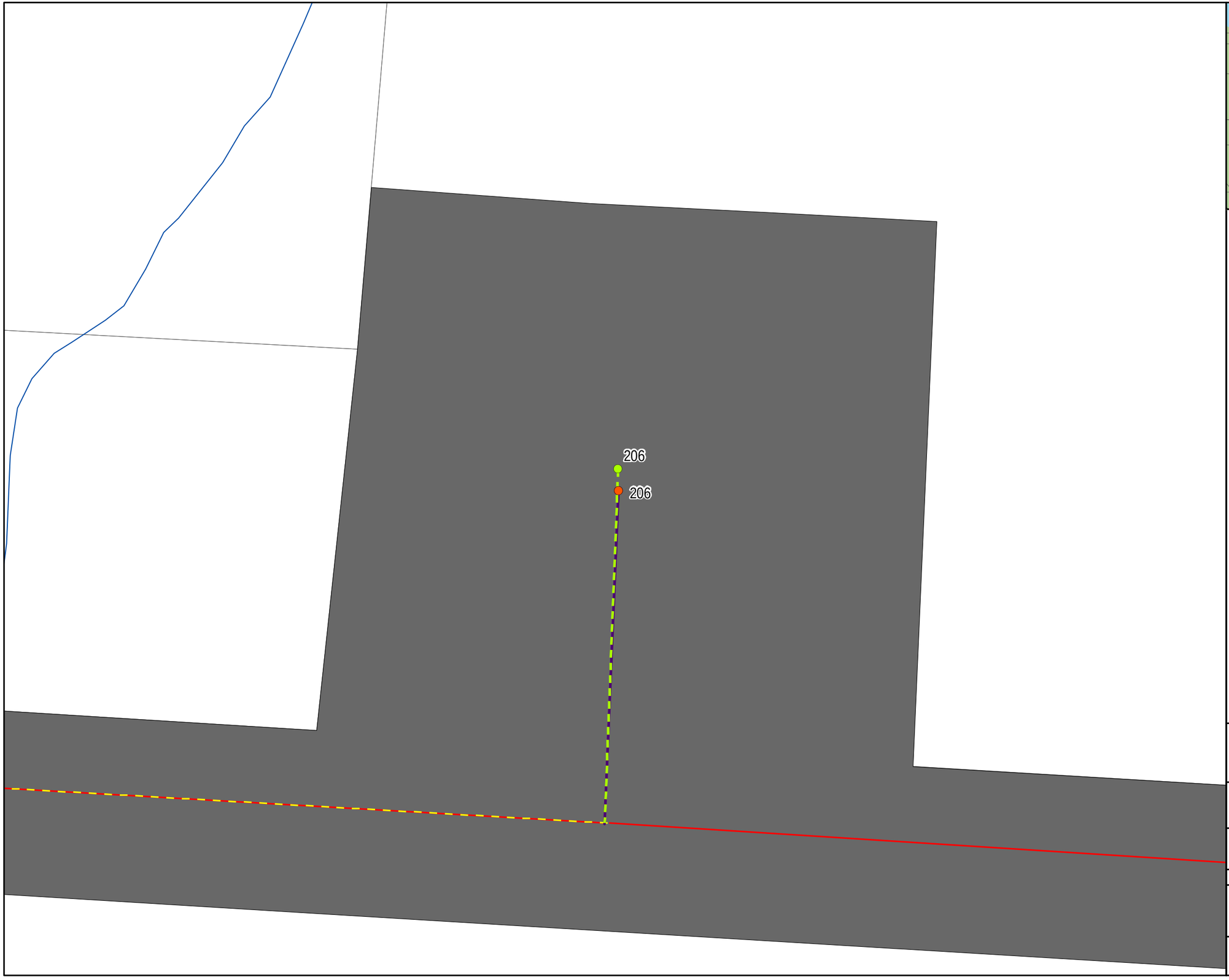

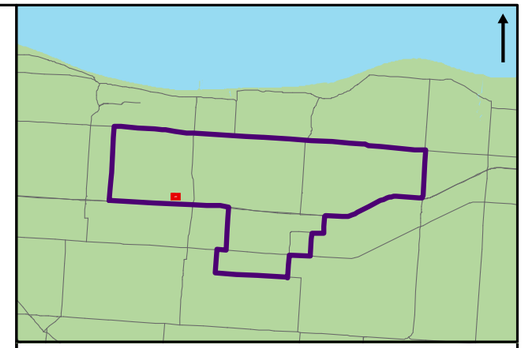

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

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Figure 1-E

Map location: F:\AECOM-Wk\60321891-Belle River\Design\Change Maps\Post_Submission_Change_2015 1111.mxd
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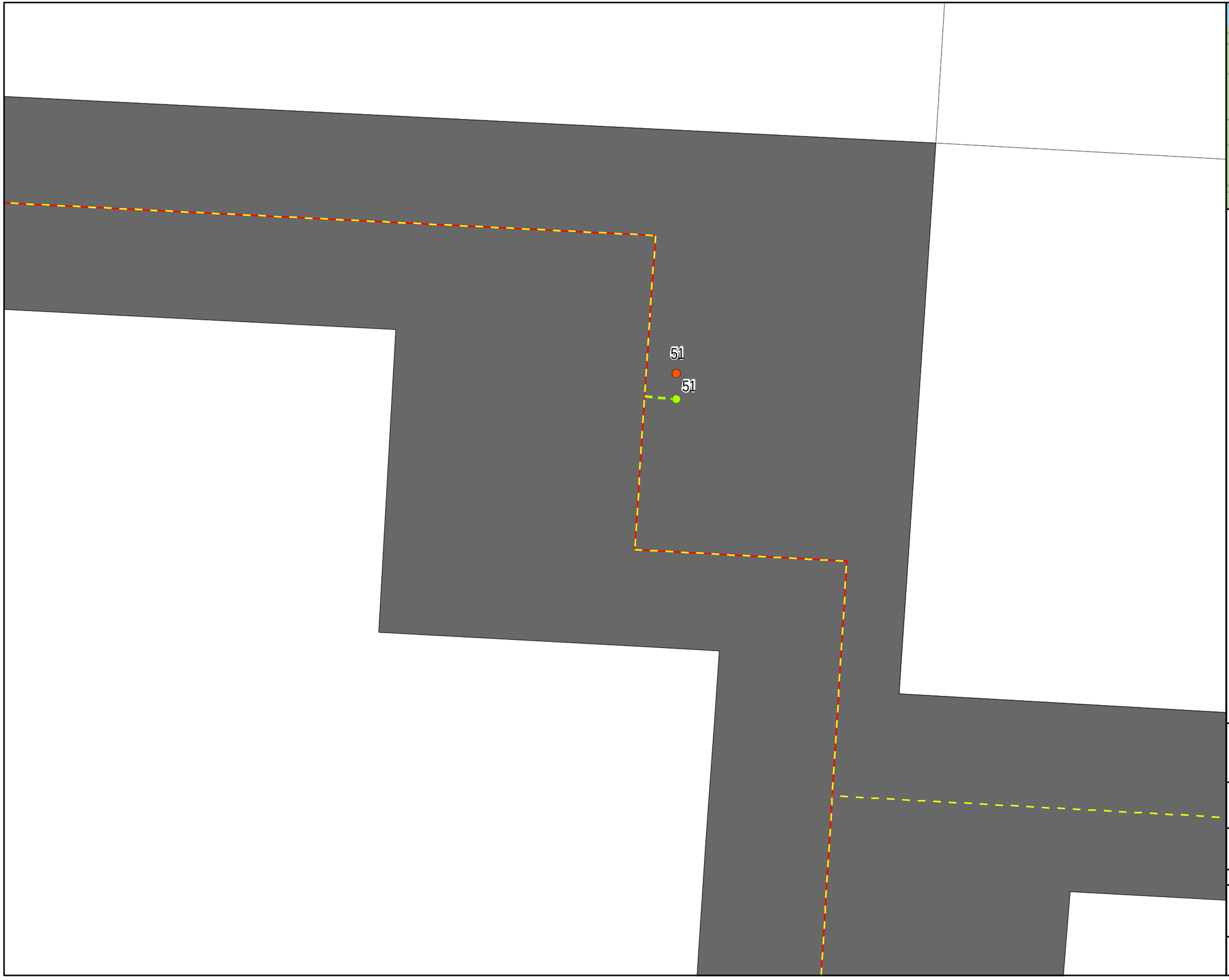

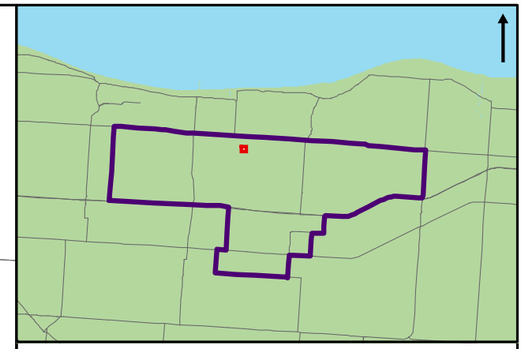

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

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Figure 1-F

Map location: F:\AECOM-Wtr\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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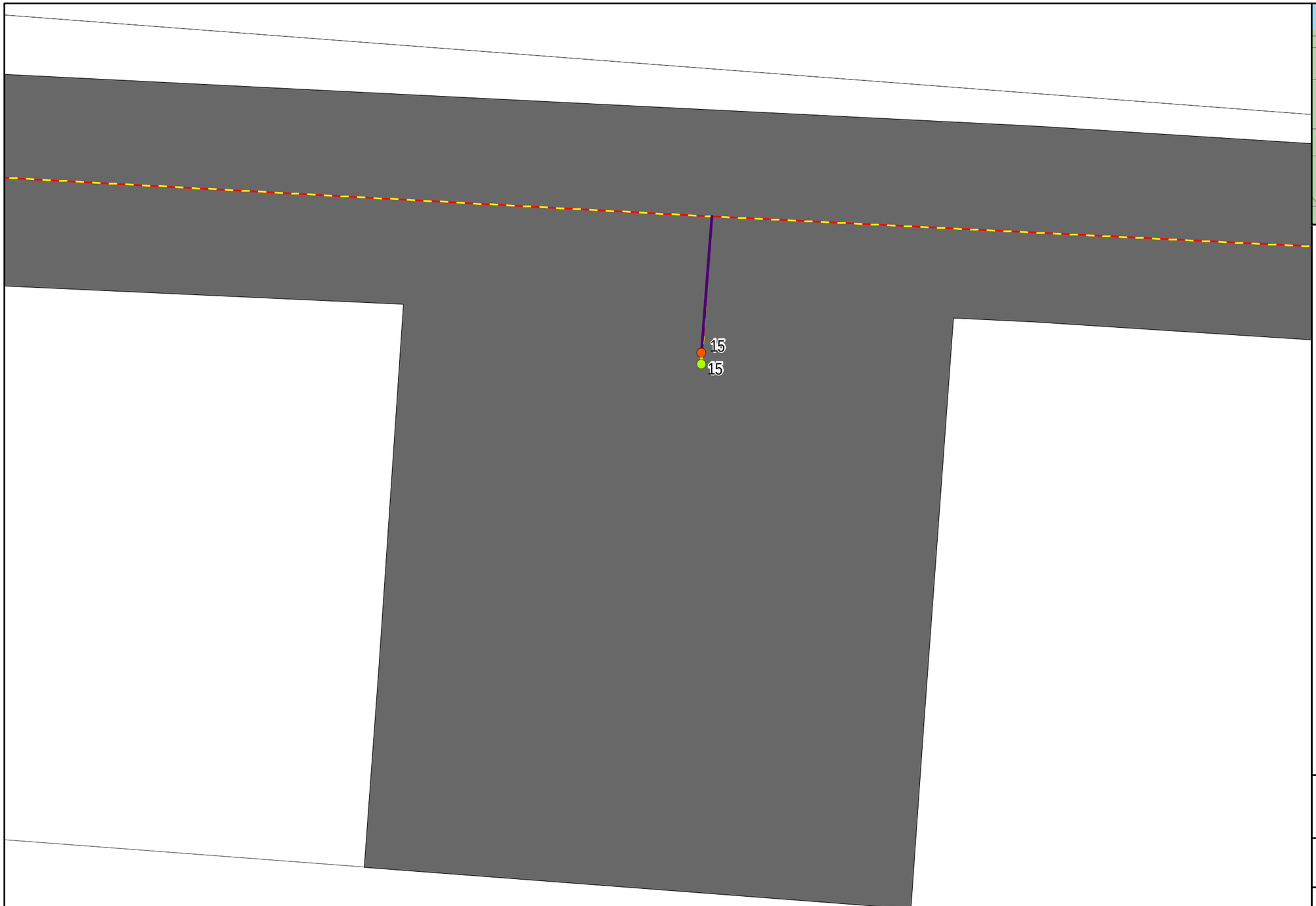

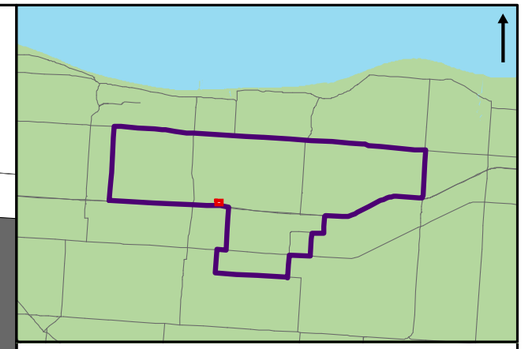

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

N

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM
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Figure 1-G

Map location: F:\AECOM\Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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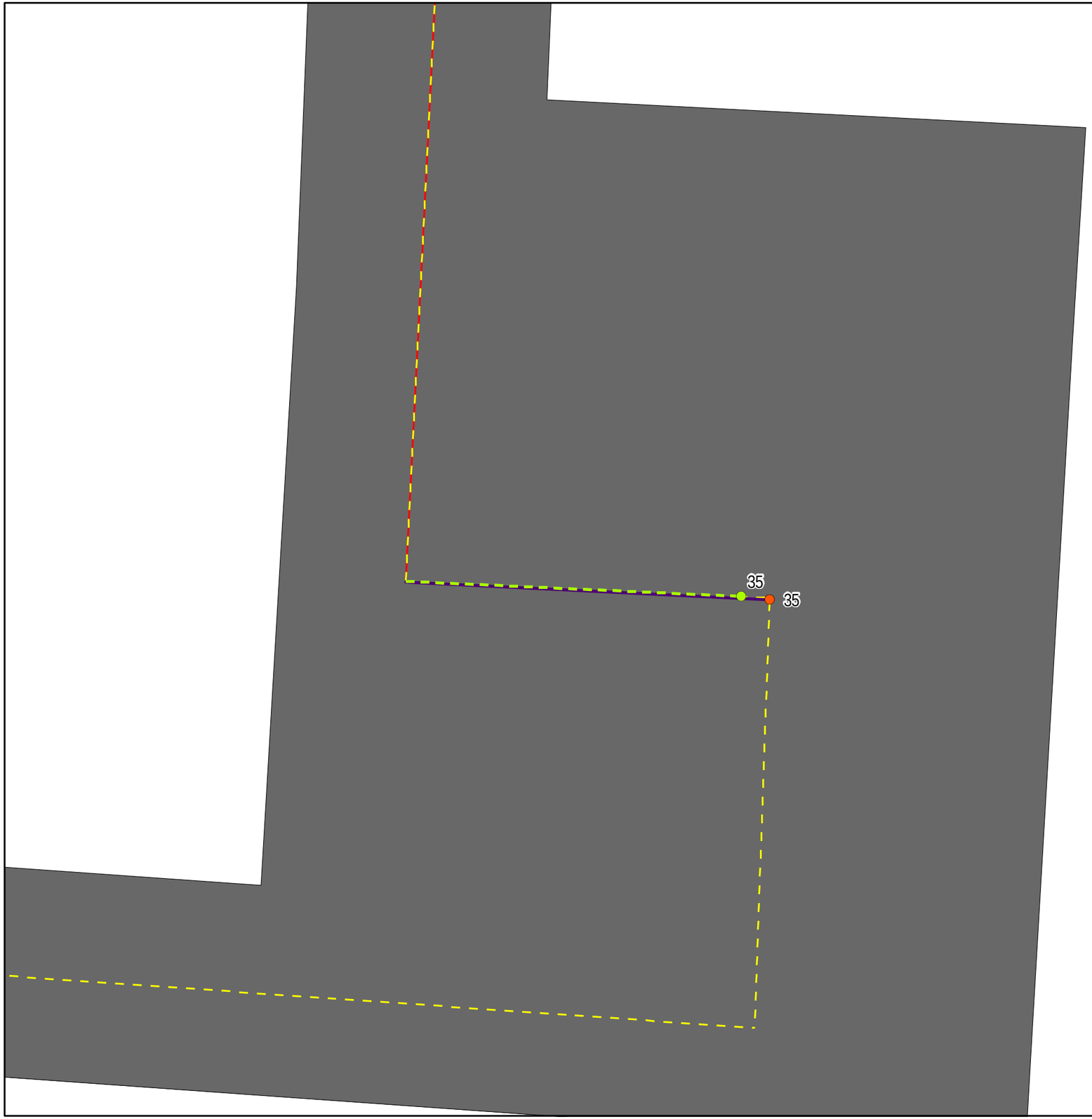

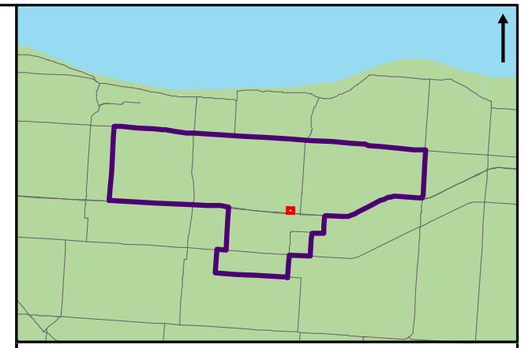

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

N

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM
AECOM Canada Ltd.

Figure 1-H

Map location: F:\AECOM Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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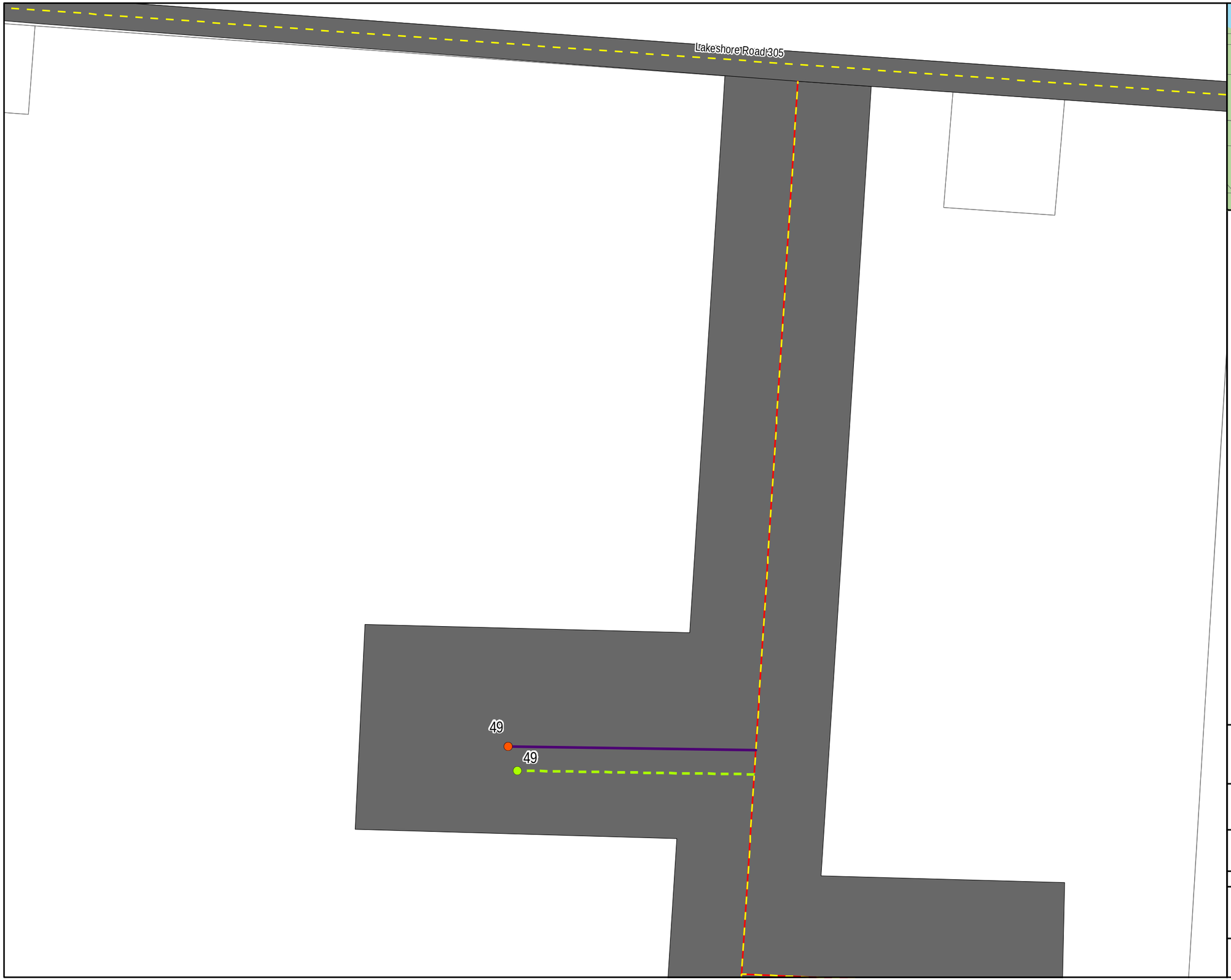

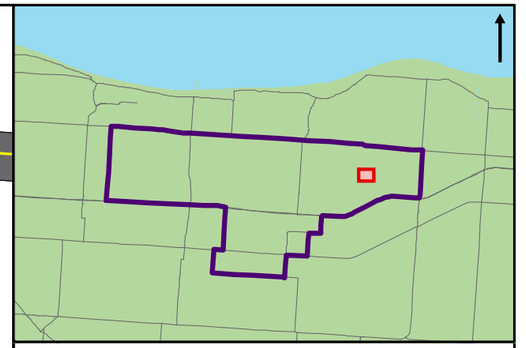

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
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- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 40 80 160

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:2,500	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM
AECOM Canada Ltd.

Figure 1-I

Map location: F:\AECOM-Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
Date Saved: 11/17/2015 4:28:10 PM

Appendix B – Noise Impact Assessment Amendments

Sarah Raetsen
Senior Project Evaluator - Approval Services Unit - Team 5
Environmental Approvals Branch - Ministry of the Environment and Climate Change
135 St. Clair Avenue West
Toronto, Ontario, M4V 1P5
Tel: 416-326-6089

DNV GL – Renewable Advisory
151 Slater Street, Suite 806
Ottawa, ON, K1P 5H3

Tel: + 1 613 230 3787
Fax: +1 613 230 1742

Mahdi Zangeneh, Ph.D., P.Eng.
Senior Noise Engineer – Environmental Approval Branch
Ministry of the Environment and Climate Change
135 St. Clair Avenue West
Toronto, Ontario, M4V 1P5
Tel: 416-314-1825

Date:
20/11/2015

RE: Belle River Wind Project - comments on noise impact assessment and next steps

Dear Miss Raetsen and Mr. Zangeneh,

The Ministry is currently completing its technical review following the submission of the SP Belle River Wind LP Renewable Energy Approval (REA) application dated 29 May 2015 for the Belle River Wind Project (the "Project"). A comment has been raised by the Ministry in an email dated 18 November 2015 in relation to the latest Noise Impact Assessment (NIA) [1] for the Project.

GL Garrad Hassan Canada Inc. (DNV GL) has prepared this letter to answer the following Ministry's comment:

> *The Ministry of the Environment and Climate Change (MOECC) has reviewed the revised Noise Impact Assessment (NIA) report for the Belle River Wind Project, dated November 10, 2015 and submitted on November 11, 2015. The NIA report removes three wind turbine locations (and two turbines from the final project layout) from the project scope.*
>
> *The MOECC considers the change in project scope to be a project design change. However, in order to confirm this, the MOECC requires Belle River Wind to include the following in a revised NIA report in both hard and electronic format by November 25, 2015:*
>
> *Please provide a comparison table for the difference of noise impact at receptors in the following format:*

Rev F, October 22, 2015				*Rev G, November 10, 2015*				*Coordinate change (m)*	*Change in level (dB)*
ID	*Easting (m)*	*Northing (m)*	*Level (dBA)*	*ID*	*Easting (m)*	*Northing (m)*	*Level (dBA)*		
R1107	*367,822*	*4,680,053*	*37.6*	*R1107*	*367,822*	*4,680,053*	*38.2*	*0.0*	*+0.6*

Response: During a phone conversation with Mr. Zangeneh that occurred on 19 November 2015, DNV GL confirmed that the comparison table could be provided in a letter addressed to the MOECC instead of updating the latest NIA [1]. Therefore, a comparison table is presented in Appendix A of this letter to illustrate the differences in the location and sound pressure level of the Project receptors and participants between the previous NIA completed on 22 October 2015 (Issue F) [2] and the latest NIA (Issue G) [1]. A total of five receptors were moved between the NIA Issue F [2] and NIA Issue G [1]. Here is the rationale for the five relocations:

- R2511: A recent building permit indicates a new dwelling structure; therefore, the Vacant lot Receptor (VLR) became a receptor. The new receptor was placed where there is evidence of the new building in aerial imagery.
- R2512: A recent building permit indicates a new dwelling structure; therefore, the VLR became a receptor. The new receptor was placed where there is evidence of the new building in aerial imagery.
- R2513: A recent building permit indicates a new dwelling structure; therefore, the VLR became a receptor. The new receptor was placed where there is evidence of the new building in aerial imagery.
- R2514: A recent building permit indicates a new dwelling structure; therefore, the VLR became a receptor. The new receptor was placed where there is evidence of the new building in aerial imagery.
- R2515: New aerial imagery indicates an additional building east of Receptor 1470. It is possible that this building is a dwelling and has been added to the most recent NIA [1].

DNV GL trusts that the above answer is satisfactory and complete. Please do not hesitate to contact me if you have any additional questions.

Sincerely,

Shant Dokouzian, P. Eng.
Senior Project Manager, Development
and Engineering Services
DNV GL

Direct +1 514 272 2175 x234
shant.dokouzian@dnvgl.com

cc: Gabriel Constantin, Project Manager, DNV GL
cc: Jody Law, Wind Development Associate, Pattern Development
cc: Brian Edwards, Project Developer, Samsung Renewable Energy Inc.

Reference

[1] DNV GL, Noise Impact Assessment (Issue G) – Belle River Wind Project, 10 November 2015.
[2] DNV GL, Noise Impact Assessment (Issue F) – Belle River Wind Project, 22 October 2015.

APPENDIX A: COMPARISON OF THE NOISE IMPACT AT RECEPTORS AND PARTICIPANTS

Coordinates of the receptors and participants of the Belle River Project are listed below in UTM17-NAD83 projection in 2 separate tables. The receptors that have an increase in sound pressure level from Issue F to Issue G are highlighted in blue.

Receptor comparison table

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R174	360772	4676636	37.6	R174	360772	4676636	37.6	0	0
R175	360682	4676598	39.4	R175	360682	4676598	39.4	0	0
R176	360680	4676517	39.4	R176	360680	4676517	39.4	0	0
R177	360747	4676418	39.4	R177	360747	4676418	39.3	0	-0.1
R181	360638	4676281	39.6	R181	360638	4676281	39.5	0	-0.1
R205	360692	4676751	39.5	R205	360692	4676751	39.5	0	0
R206	360788	4676785	39.7	R206	360788	4676785	39.7	0	0
R207	360706	4676850	39.5	R207	360706	4676850	39.5	0	0
R208	360707	4676877	37.7	R208	360707	4676877	37.7	0	0
R209	360706	4676914	37.7	R209	360706	4676914	37.7	0	0
R210	360707	4676951	39.5	R210	360707	4676951	39.5	0	0
R211	360813	4676980	40.0	R211	360813	4676980	40.0	0	0
R212	360721	4676995	38.2	R212	360721	4676995	38.2	0	0
R213	360706	4677124	39.5	R213	360706	4677124	39.6	0	0.1
R214	360741	4677259	39.6	R214	360741	4677259	39.6	0	0
R215	358711	4677274	35.1	R215	358711	4677274	35.1	0	0
R216	358611	4677248	34.8	R216	358611	4677248	34.8	0	0
R217	358582	4677205	36.3	R217	358582	4677205	36.3	0	0
R218	358685	4677217	35.0	R218	358685	4677217	35.0	0	0
R219	358682	4677190	36.7	R219	358682	4677190	36.7	0	0
R220	358680	4677159	35.1	R220	358680	4677159	35.1	0	0
R221	358678	4677130	36.7	R221	358678	4677130	36.7	0	0
R222	358668	4677096	36.7	R222	358668	4677096	36.7	0	0
R223	358664	4677064	35.1	R223	358664	4677064	35.1	0	0
R224	358661	4677026	35.1	R224	358661	4677026	35.1	0	0
R225	358587	4677167	34.7	R225	358587	4677167	34.7	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R226	358589	4677118	36.4	R226	358589	4677118	36.4	0	0
R227	358576	4677084	36.3	R227	358576	4677084	36.3	0	0
R228	358571	4677033	36.3	R228	358571	4677033	36.3	0	0
R229	358572	4676988	36.4	R229	358572	4676988	36.4	0	0
R230	358651	4676919	36.8	R230	358651	4676919	36.8	0	0
R231	358654	4676966	36.8	R231	358654	4676966	36.8	0	0
R232	358570	4676937	34.7	R232	358570	4676937	34.7	0	0
R233	358571	4676911	36.4	R233	358571	4676911	36.4	0	0
R234	358567	4676872	36.4	R234	358567	4676872	36.4	0	0
R235	358557	4676837	34.7	R235	358557	4676837	34.7	0	0
R236	358553	4676808	36.4	R236	358553	4676808	36.4	0	0
R237	358507	4676814	36.1	R237	358507	4676814	36.1	0	0
R239	358529	4676739	34.6	R239	358529	4676739	34.6	0	0
R240	358477	4676733	36.0	R240	358477	4676733	36.0	0	0
R241	358447	4676733	35.8	R241	358447	4676733	35.8	0	0
R242	358422	4676733	35.7	R242	358422	4676733	35.7	0	0
R243	358390	4676738	35.5	R243	358390	4676738	35.5	0	0
R244	358355	4676738	35.4	R244	358355	4676738	35.4	0	0
R245	358328	4676744	33.6	R245	358328	4676744	33.6	0	0
R246	358268	4676754	33.4	R246	358268	4676754	33.4	0	0
R247	358475	4676814	36.0	R247	358475	4676814	36.0	0	0
R248	358444	4676818	34.2	R248	358444	4676818	34.1	0	-0.1
R249	358415	4676823	35.7	R249	358415	4676823	35.7	0	0
R250	358389	4676826	35.6	R250	358389	4676826	35.6	0	0
R251	358355	4676830	33.8	R251	358355	4676830	33.8	0	0
R252	358328	4676826	35.4	R252	358328	4676826	35.4	0	0
R253	358264	4676843	33.5	R253	358264	4676843	33.5	0	0
R254	358093	4676840	33.2	R254	358093	4676840	33.2	0	0
R255	358039	4676858	33.2	R255	358039	4676858	33.2	0	0
R256	358000	4676868	34.7	R256	358000	4676868	34.7	0	0
R257	358009	4676942	35.0	R257	358009	4676942	35.0	0	0
R258	358009	4676982	35.1	R258	358009	4676982	35.1	0	0
R259	358013	4677005	35.2	R259	358013	4677005	35.2	0	0
R260	358012	4677048	35.3	R260	358012	4677048	35.3	0	0
R261	357931	4677091	35.6	R261	357931	4677091	35.6	0	0
R262	357941	4677135	35.8	R262	357941	4677135	35.8	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R263	358042	4677151	34.4	R263	358042	4677151	34.3	0	-0.1
R264	358041	4677203	36.0	R264	358041	4677203	36.0	0	0
R265	358056	4677227	36.1	R265	358056	4677227	36.1	0	0
R266	357962	4677298	36.7	R266	357962	4677298	36.7	0	0
R267	358070	4677254	36.2	R267	358070	4677254	36.1	0	-0.1
R268	358081	4677286	36.3	R268	358081	4677286	36.3	0	0
R269	358072	4677396	37.3	R269	358072	4677396	37.3	0	0
R270	365268	4681050	36.4	R270	365268	4681050	36.0	0	-0.4
R271	365296	4681107	34.9	R271	365296	4681107	34.6	0	-0.3
R272	365324	4681028	36.3	R272	365324	4681028	35.9	0	-0.4
R273	365385	4681028	36.2	R273	365385	4681028	35.8	0	-0.4
R274	365359	4681099	34.8	R274	365359	4681099	34.4	0	-0.4
R275	365430	4681096	36.0	R275	365430	4681096	35.7	0	-0.3
R276	365456	4681026	34.9	R276	365456	4681026	34.4	0	-0.5
R277	365513	4681030	34.9	R277	365513	4681030	34.4	0	-0.5
R278	365541	4681077	34.7	R278	365541	4681077	34.3	0	-0.4
R279	365539	4681118	36.1	R279	365539	4681118	35.7	0	-0.4
R280	365380	4681184	34.6	R280	365380	4681184	34.2	0	-0.4
R281	365403	4681193	36.4	R281	365403	4681193	36.1	0	-0.3
R282	365340	4681177	35.9	R282	365340	4681177	35.6	0	-0.3
R283	365318	4681198	35.9	R283	365318	4681198	35.6	0	-0.3
R284	365230	4681179	34.8	R284	365230	4681179	34.6	0	-0.2
R285	365233	4681251	35.8	R285	365233	4681251	35.6	0	-0.2
R286	365244	4681312	35.7	R286	365244	4681312	35.5	0	-0.2
R287	365255	4681245	35.8	R287	365255	4681245	35.6	0	-0.2
R288	365270	4681244	35.8	R288	365270	4681244	35.6	0	-0.2
R342	358584	4677358	36.3	R342	358584	4677358	36.3	0	0
R343	358094	4676761	33.0	R343	358094	4676761	33.0	0	0
R344	358042	4676769	34.6	R344	358042	4676769	34.5	0	-0.1
R345	357992	4676767	34.5	R345	357992	4676767	34.5	0	0
R355	358073	4677329	36.5	R355	358073	4677329	36.5	0	0
R356	358010	4677418	36.2	R356	358010	4677418	36.2	0	0
R394	368274	4677219	37.6	R394	368274	4677219	37.7	0	0.1
R395	368301	4677587	35.5	R395	368301	4677587	35.6	0	0.1
R396	368299	4677534	37.3	R396	368299	4677534	37.4	0	0.1
R397	368305	4677912	35.8	R397	368305	4677912	36.0	0	0.2

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R398	365320	4681299	34.5	R398	365320	4681299	34.2	0	-0.3
R399	365318	4681322	35.7	R399	365318	4681322	35.5	0	-0.2
R400	365315	4681342	35.7	R400	365315	4681342	35.5	0	-0.2
R401	365319	4681359	35.7	R401	365319	4681359	35.5	0	-0.2
R402	365315	4681378	35.6	R402	365315	4681378	35.4	0	-0.2
R403	365333	4681411	35.7	R403	365333	4681411	35.5	0	-0.2
R404	365339	4681430	35.0	R404	365339	4681430	34.8	0	-0.2
R405	365351	4681445	35.6	R405	365351	4681445	35.4	0	-0.2
R406	365360	4681462	35.6	R406	365360	4681462	35.3	0	-0.3
R407	365357	4681314	35.8	R407	365357	4681314	35.6	0	-0.2
R408	365359	4681288	35.8	R408	365359	4681288	35.5	0	-0.3
R409	365351	4681269	35.8	R409	365351	4681269	35.6	0	-0.2
R410	365386	4681235	35.9	R410	365386	4681235	35.6	0	-0.3
R411	365406	4681234	35.9	R411	365406	4681234	35.7	0	-0.2
R412	365436	4681231	36.1	R412	365436	4681231	35.8	0	-0.3
R413	365467	4681232	36.2	R413	365467	4681232	36.0	0	-0.2
R414	365487	4681227	36.4	R414	365487	4681227	36.2	0	-0.2
R415	365769	4681130	36.9	R415	365769	4681130	36.6	0	-0.3
R416	365657	4681455	36.5	R416	365657	4681455	36.3	0	-0.2
R417	365654	4681414	36.4	R417	365654	4681414	36.2	0	-0.2
R418	365639	4681387	36.7	R418	365639	4681387	36.5	0	-0.2
R419	365707	4681348	36.6	R419	365707	4681348	36.4	0	-0.2
R420	365693	4681231	36.8	R420	365693	4681231	36.6	0	-0.2
R421	365824	4681232	35.5	R421	365824	4681232	35.3	0	-0.2
R422	365518	4681227	36.0	R422	365518	4681227	35.8	0	-0.2
R440	365767	4681636	37.5	R440	365767	4681636	37.4	0	-0.1
R442	365724	4681585	37.2	R442	365724	4681585	37.1	0	-0.1
R443	365709	4681561	37.0	R443	365709	4681561	36.9	0	-0.1
R444	365669	4681481	36.6	R444	365669	4681481	36.4	0	-0.2
R445	365468	4681497	35.6	R445	365468	4681497	35.4	0	-0.2
R446	365494	4681534	36.0	R446	365494	4681534	35.8	0	-0.2
R447	365544	4681595	36.3	R447	365544	4681595	36.2	0	-0.1
R448	365378	4681490	35.5	R448	365378	4681490	35.3	0	-0.2
R449	365398	4681521	35.5	R449	365398	4681521	35.4	0	-0.1
R450	365416	4681537	34.2	R450	365416	4681537	34.0	0	-0.2
R451	365427	4681554	34.2	R451	365427	4681554	34.1	0	-0.1

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R452	365449	4681583	34.3	R452	365449	4681583	34.1	0	-0.2
R453	365467	4681626	34.4	R453	365467	4681626	34.2	0	-0.2
R454	365474	4681646	34.4	R454	365474	4681646	34.2	0	-0.2
R455	365482	4681669	34.4	R455	365482	4681669	34.3	0	-0.1
R456	365490	4681693	34.5	R456	365490	4681693	34.3	0	-0.2
R457	365499	4681737	35.8	R457	365499	4681737	35.7	0	-0.1
R458	365506	4681759	35.8	R458	365506	4681759	35.7	0	-0.1
R459	365512	4681781	34.6	R459	365512	4681781	34.5	0	-0.1
R460	365561	4681661	36.2	R460	365561	4681661	36.1	0	-0.1
R461	365671	4681701	38.3	R461	365671	4681701	38.3	0	0
R462	365622	4681704	35.4	R462	365622	4681704	35.3	0	-0.1
R463	365590	4681702	35.1	R463	365590	4681702	35.0	0	-0.1
R464	365560	4681702	36.2	R464	365560	4681702	36.1	0	-0.1
R465	365574	4681767	36.3	R465	365574	4681767	36.2	0	-0.1
R466	365605	4681763	36.6	R466	365605	4681763	36.5	0	-0.1
R467	365640	4681759	35.5	R467	365640	4681759	35.4	0	-0.1
R468	365671	4681761	37.5	R468	365671	4681761	37.4	0	-0.1
R469	365535	4681841	36.0	R469	365535	4681841	35.9	0	-0.1
R470	365582	4681856	36.5	R470	365582	4681856	36.4	0	-0.1
R471	365532	4681869	36.1	R471	365532	4681869	36.0	0	-0.1
R481	364290	4682118	32.2	R481	364290	4682118	32.1	0	-0.1
R482	364270	4682128	32.2	R482	364270	4682128	32.0	0	-0.2
R713	369399	4680812	34.0	R713	369399	4680812	34.1	0	0.1
R715	370627	4680674	38.5	R715	370627	4680674	38.6	0	0.1
R716	370803	4680774	37.0	R716	370803	4680774	37.0	0	0
R717	371229	4680767	36.8	R717	371229	4680767	36.9	0	0.1
R718	371328	4680657	34.7	R718	371328	4680657	34.7	0	0
R719	371497	4680736	36.0	R719	371497	4680736	36.0	0	0
R727	371408	4679379	33.2	R727	371408	4679379	33.4	0	0.2
R728	371310	4679279	35.2	R728	371310	4679279	35.4	0	0.2
R729	371101	4679319	34.6	R729	371101	4679319	34.9	0	0.3
R730	370794	4679345	37.7	R730	370794	4679345	38.0	0	0.3
R731	370758	4679415	38.2	R731	370758	4679415	38.4	0	0.2
R732	370722	4679347	38.0	R732	370722	4679347	38.3	0	0.3
R733	370676	4679361	36.8	R733	370676	4679361	37.2	0	0.4
R734	370502	4679428	38.6	R734	370502	4679428	38.9	0	0.3

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R735	370419	4679389	39.1	R735	370419	4679389	39.4	0	0.3
R736	370061	4679409	39.3	R736	370061	4679409	39.5	0	0.2
R737	369992	4679407	37.5	R737	369992	4679407	37.7	0	0.2
R738	369861	4679397	37.8	R738	369861	4679397	38.0	0	0.2
R739	369790	4679486	39.1	R739	369790	4679486	39.3	0	0.2
R740	369582	4679431	38.9	R740	369582	4679431	39.2	0	0.3
R741	369335	4679465	39.2	R741	369335	4679465	39.6	0	0.4
R742	369143	4679464	39.1	R742	369143	4679464	39.6	0	0.5
R751	368442	4681295	34.9	R751	368442	4681295	35.0	0	0.1
R752	368488	4680883	35.5	R752	368488	4680883	35.6	0	0.1
R753	368423	4680625	35.4	R753	368423	4680625	35.6	0	0.2
R754	368464	4680273	34.0	R754	368464	4680273	34.3	0	0.3
R755	368437	4679949	36.0	R755	368437	4679949	36.4	0	0.4
R756	368446	4679982	34.6	R756	368446	4679982	34.9	0	0.3
R757	368428	4679762	36.5	R757	368428	4679762	36.9	0	0.4
R758	368341	4679631	36.8	R758	368341	4679631	37.3	0	0.5
R759	368413	4679581	37.2	R759	368413	4679581	37.6	0	0.4
R760	368406	4679532	37.4	R760	368406	4679532	37.9	0	0.5
R761	368406	4679512	37.5	R761	368406	4679512	38.0	0	0.5
R762	368334	4679425	36.6	R762	368334	4679425	37.1	0	0.5
R763	368283	4678525	38.6	R763	368283	4678525	39.0	0	0.4
R764	368265	4678489	37.3	R764	368265	4678489	37.7	0	0.4
R765	368446	4681058	35.8	R765	368446	4681058	36.0	0	0.2
R766	369091	4678074	39.6	R766	369091	4678074	40.0	0	0.4
R767	369532	4678128	39.3	R767	369532	4678128	39.5	0	0.2
R768	369674	4678102	39.0	R768	369674	4678102	39.2	0	0.2
R769	369771	4678017	37.3	R769	369771	4678017	37.5	0	0.2
R770	369813	4678004	38.9	R770	369813	4678004	39.0	0	0.1
R771	370135	4678010	36.0	R771	370135	4678010	36.2	0	0.2
R772	370438	4678051	35.3	R772	370438	4678051	35.5	0	0.2
R773	370616	4678045	34.9	R773	370616	4678045	35.2	0	0.3
R774	371113	4678119	35.6	R774	371113	4678119	35.8	0	0.2
R775	360863	4677630	37.6	R775	360863	4677630	37.5	0	-0.1
R776	365882	4681225	37.0	R776	365882	4681225	36.8	0	-0.2
R781	371096	4679403	36.1	R781	371096	4679403	36.3	0	0.2
R782	369673	4678141	37.4	R782	369673	4678141	37.6	0	0.2

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R784	365688	4681328	35.8	R784	365688	4681328	35.6	0	-0.2
R785	365664	4681516	36.6	R785	365664	4681516	36.5	0	-0.1
R794	365447	4681484	36.4	R794	365447	4681484	36.3	0	-0.1
R795	365492	4681713	34.5	R795	365492	4681713	34.3	0	-0.2
R821	356721	4678033	37.6	R821	356721	4678033	37.6	0	0
R822	358070	4677607	38.2	R822	358070	4677607	38.2	0	0
R823	358247	4677708	37.3	R823	358247	4677708	37.3	0	0
R824	358324	4677897	36.0	R824	358324	4677897	36.0	0	0
R825	358420	4677725	35.2	R825	358420	4677725	35.2	0	0
R826	358453	4677886	36.6	R826	358453	4677886	36.6	0	0
R827	358455	4677918	36.6	R827	358455	4677918	36.6	0	0
R828	358457	4677943	36.5	R828	358457	4677943	36.6	0	0.1
R829	358458	4677974	36.5	R829	358458	4677974	36.6	0	0.1
R830	358493	4678052	35.1	R830	358493	4678052	35.0	0	-0.1
R831	358442	4678095	36.5	R831	358442	4678095	36.5	0	0
R832	358439	4678128	36.5	R832	358439	4678128	36.5	0	0
R833	358444	4678162	36.4	R833	358444	4678162	36.4	0	0
R834	358394	4678233	36.5	R834	358394	4678233	36.5	0	0
R835	358374	4678334	35.0	R835	358374	4678334	35.0	0	0
R836	358412	4678473	34.6	R836	358412	4678473	34.6	0	0
R837	358657	4678478	35.8	R837	358657	4678478	35.8	0	0
R838	358744	4678464	35.9	R838	358744	4678464	35.9	0	0
R839	358660	4678433	35.8	R839	358660	4678433	35.9	0	0.1
R840	358742	4678408	34.6	R840	358742	4678408	34.6	0	0
R841	358660	4678388	34.5	R841	358660	4678388	34.5	0	0
R842	358746	4678377	36.0	R842	358746	4678377	36.1	0	0.1
R843	358659	4678337	36.0	R843	358659	4678337	36.0	0	0
R844	358598	4678334	34.6	R844	358598	4678334	34.6	0	0
R845	358750	4678316	34.8	R845	358750	4678316	34.8	0	0
R846	358751	4678279	34.8	R846	358751	4678279	34.9	0	0.1
R847	358667	4678265	36.1	R847	358667	4678265	36.1	0	0
R848	358751	4678250	34.9	R848	358751	4678250	34.9	0	0
R849	358677	4678238	34.8	R849	358677	4678238	34.8	0	0
R850	358659	4678207	34.8	R850	358659	4678207	34.8	0	0
R851	358750	4678216	34.9	R851	358750	4678216	35.0	0	0.1
R852	358755	4678194	35.0	R852	358755	4678194	35.0	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R853	358675	4678173	36.2	R853	358675	4678173	36.3	0	0.1
R854	358759	4678135	35.1	R854	358759	4678135	35.1	0	0
R855	358768	4678104	35.1	R855	358768	4678104	35.2	0	0.1
R856	358674	4678112	34.9	R856	358674	4678112	34.9	0	0
R857	358685	4678074	36.3	R857	358685	4678074	36.4	0	0.1
R858	358763	4678076	35.2	R858	358763	4678076	35.2	0	0
R859	358757	4678050	36.5	R859	358757	4678050	36.6	0	0.1
R860	358682	4678041	36.4	R860	358682	4678041	36.4	0	0
R861	358761	4678021	35.2	R861	358761	4678021	35.3	0	0.1
R862	358764	4677995	35.3	R862	358764	4677995	35.3	0	0
R863	358764	4677969	36.6	R863	358764	4677969	36.7	0	0.1
R864	358685	4677981	36.4	R864	358685	4677981	36.5	0	0.1
R865	358772	4677940	36.6	R865	358772	4677940	36.8	0	0.2
R866	358679	4677888	36.5	R866	358679	4677888	36.5	0	0
R867	358690	4677916	36.5	R867	358690	4677916	36.5	0	0
R868	358689	4677854	36.5	R868	358689	4677854	36.6	0	0.1
R869	358782	4677858	35.8	R869	358782	4677858	35.9	0	0.1
R870	358766	4677766	36.7	R870	358766	4677766	36.8	0	0.1
R871	358661	4678511	35.7	R871	358661	4678511	35.8	0	0.1
R872	358742	4678514	35.8	R872	358742	4678514	35.8	0	0
R873	358740	4678575	35.8	R873	358740	4678575	35.8	0	0
R874	358738	4678606	35.7	R874	358738	4678606	35.7	0	0
R875	358736	4678634	35.7	R875	358736	4678634	35.7	0	0
R876	358736	4678671	35.7	R876	358736	4678671	35.7	0	0
R877	358649	4678556	36.1	R877	358649	4678556	36.2	0	0.1
R878	358657	4678598	34.3	R878	358657	4678598	34.2	0	-0.1
R879	358652	4678643	34.2	R879	358652	4678643	34.2	0	0
R880	358651	4678679	35.6	R880	358651	4678679	35.6	0	0
R881	358652	4678731	34.1	R881	358652	4678731	34.1	0	0
R882	358628	4678872	35.4	R882	358628	4678872	35.4	0	0
R883	358718	4678902	35.5	R883	358718	4678902	35.5	0	0
R884	358718	4678932	35.5	R884	358718	4678932	35.5	0	0
R885	358644	4678936	34.1	R885	358644	4678936	34.0	0	-0.1
R886	358632	4678909	34.0	R886	358632	4678909	34.0	0	0
R887	358714	4678960	35.5	R887	358714	4678960	35.5	0	0
R888	358712	4678989	35.5	R888	358712	4678989	35.5	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R889	358711	4679018	35.5	R889	358711	4679018	35.5	0	0
R890	358652	4678961	34.1	R890	358652	4678961	34.0	0	-0.1
R891	358639	4678996	34.1	R891	358639	4678996	34.0	0	-0.1
R892	358640	4679021	35.4	R892	358640	4679021	35.4	0	0
R893	358310	4678481	36.1	R893	358310	4678481	36.1	0	0
R894	358359	4678604	35.7	R894	358359	4678604	35.7	0	0
R895	358338	4678699	36.0	R895	358338	4678699	36.0	0	0
R896	358271	4678705	34.3	R896	358271	4678705	34.2	0	-0.1
R897	358315	4678753	34.1	R897	358315	4678753	34.1	0	0
R898	358296	4678809	34.0	R898	358296	4678809	34.0	0	0
R899	358296	4678846	35.3	R899	358296	4678846	35.3	0	0
R900	358288	4678903	33.8	R900	358288	4678903	33.8	0	0
R901	358276	4678875	35.3	R901	358276	4678875	35.2	0	-0.1
R902	358188	4678875	35.8	R902	358188	4678875	35.8	0	0
R903	358178	4678917	33.9	R903	358178	4678917	33.9	0	0
R904	358283	4678927	35.7	R904	358283	4678927	35.6	0	-0.1
R905	358283	4678962	35.1	R905	358283	4678962	35.1	0	0
R906	358255	4678979	35.1	R906	358255	4678979	35.1	0	0
R907	358269	4679019	33.7	R907	358269	4679019	33.7	0	0
R908	358342	4678997	35.1	R908	358342	4678997	35.1	0	0
R909	358374	4679017	33.8	R909	358374	4679017	33.7	0	-0.1
R910	356653	4678805	36.0	R910	356653	4678805	35.9	0	-0.1
R911	356692	4679295	36.4	R911	356692	4679295	36.4	0	0
R912	358009	4679396	34.0	R912	358009	4679396	34.0	0	0
R913	358165	4679143	35.1	R913	358165	4679143	35.0	0	-0.1
R914	358137	4679202	33.7	R914	358137	4679202	33.6	0	-0.1
R915	358098	4679408	33.9	R915	358098	4679408	33.9	0	0
R916	358100	4679362	33.8	R916	358100	4679362	33.8	0	0
R917	358020	4679435	35.4	R917	358020	4679435	35.4	0	0
R918	358016	4679761	35.1	R918	358016	4679761	35.1	0	0
R919	358066	4679741	36.1	R919	358066	4679741	36.1	0	0
R920	357983	4679732	36.3	R920	357983	4679732	36.3	0	0
R921	358120	4679882	36.3	R921	358120	4679882	36.3	0	0
R922	358197	4679518	35.3	R922	358197	4679518	35.3	0	0
R923	358711	4679046	35.6	R923	358711	4679046	35.5	0	-0.1
R924	358194	4679070	33.7	R924	358194	4679070	33.7	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R925	358251	4679084	33.7	R925	358251	4679084	33.7	0	0
R926	358621	4679156	35.4	R926	358621	4679156	35.4	0	0
R927	358609	4679187	34.1	R927	358609	4679187	34.0	0	-0.1
R928	358600	4679237	34.1	R928	358600	4679237	34.0	0	-0.1
R929	358600	4679279	35.4	R929	358600	4679279	35.4	0	0
R930	358667	4679366	35.6	R930	358667	4679366	35.6	0	0
R931	358669	4679413	35.7	R931	358669	4679413	35.7	0	0
R932	358671	4679477	34.4	R932	358671	4679477	34.4	0	0
R933	358590	4679413	34.2	R933	358590	4679413	34.1	0	-0.1
R934	358588	4679446	36.0	R934	358588	4679446	35.9	0	-0.1
R935	358567	4679508	35.5	R935	358567	4679508	35.5	0	0
R936	358571	4679539	35.5	R936	358571	4679539	35.5	0	0
R937	358572	4679574	36.0	R937	358572	4679574	36.0	0	0
R938	358573	4679602	34.2	R938	358573	4679602	34.2	0	0
R939	358569	4679634	35.6	R939	358569	4679634	35.6	0	0
R940	358683	4679698	35.9	R940	358683	4679698	35.9	0	0
R941	358684	4679719	34.6	R941	358684	4679719	34.6	0	0
R942	358685	4679743	35.9	R942	358685	4679743	35.9	0	0
R943	358683	4679772	34.6	R943	358683	4679772	34.6	0	0
R944	358609	4679704	34.4	R944	358609	4679704	34.4	0	0
R945	358611	4679731	35.7	R945	358611	4679731	35.7	0	0
R946	358580	4679784	35.7	R946	358580	4679784	35.7	0	0
R947	358582	4679823	35.7	R947	358582	4679823	35.7	0	0
R948	358588	4679855	35.7	R948	358588	4679855	35.7	0	0
R949	358694	4679813	34.7	R949	358694	4679813	34.7	0	0
R950	358704	4679909	34.7	R950	358704	4679909	34.7	0	0
R951	358704	4679940	34.7	R951	358704	4679940	34.7	0	0
R952	358704	4679969	34.7	R952	358704	4679969	34.7	0	0
R953	358703	4680000	34.7	R953	358703	4680000	34.7	0	0
R954	358632	4679966	35.9	R954	358632	4679966	35.8	0	-0.1
R955	358625	4680016	35.9	R955	358625	4680016	35.8	0	-0.1
R956	358712	4680028	34.7	R956	358712	4680028	34.7	0	0
R957	358712	4680062	36.0	R957	358712	4680062	36.0	0	0
R958	358621	4680065	34.5	R958	358621	4680065	34.5	0	0
R959	358644	4680101	35.9	R959	358644	4680101	35.9	0	0
R960	358635	4680190	34.5	R960	358635	4680190	34.5	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R961	358711	4680333	34.5	R961	358711	4680333	34.5	0	0
R962	358712	4680361	34.5	R962	358712	4680361	34.5	0	0
R963	358712	4680388	34.5	R963	358712	4680388	34.5	0	0
R964	358713	4680419	34.5	R964	358713	4680419	34.5	0	0
R965	358717	4680447	36.0	R965	358717	4680447	35.9	0	-0.1
R966	358715	4680468	36.0	R966	358715	4680468	35.9	0	-0.1
R967	358718	4680504	34.5	R967	358718	4680504	34.5	0	0
R968	358715	4680534	34.5	R968	358715	4680534	34.5	0	0
R969	358720	4680559	34.5	R969	358720	4680559	34.5	0	0
R970	358716	4680593	34.5	R970	358716	4680593	34.5	0	0
R971	358638	4680334	35.9	R971	358638	4680334	35.9	0	0
R972	358631	4680360	34.5	R972	358631	4680360	34.4	0	-0.1
R973	358627	4680390	35.9	R973	358627	4680390	35.9	0	0
R974	358635	4680419	34.5	R974	358635	4680419	34.4	0	-0.1
R975	358636	4680450	34.5	R975	358636	4680450	34.4	0	-0.1
R976	358646	4680542	36.0	R976	358646	4680542	36.0	0	0
R977	358636	4680516	34.5	R977	358636	4680516	34.5	0	0
R978	358646	4680569	34.5	R978	358646	4680569	34.5	0	0
R979	358646	4680595	36.0	R979	358646	4680595	36.0	0	0
R980	358641	4680624	36.0	R980	358641	4680624	36.0	0	0
R981	358647	4680652	34.5	R981	358647	4680652	34.5	0	0
R982	358642	4680714	35.2	R982	358642	4680714	35.2	0	0
R983	358646	4680743	35.3	R983	358646	4680743	35.3	0	0
R984	358648	4680780	35.3	R984	358648	4680780	35.3	0	0
R985	358649	4680819	36.3	R985	358649	4680819	36.3	0	0
R986	358214	4680033	36.3	R986	358214	4680033	36.3	0	0
R987	358192	4680072	36.5	R987	358192	4680072	36.5	0	0
R988	358239	4680145	36.4	R988	358239	4680145	36.4	0	0
R989	358232	4680176	36.5	R989	358232	4680176	36.5	0	0
R990	358242	4680199	36.5	R990	358242	4680199	36.5	0	0
R991	358144	4680208	35.8	R991	358144	4680208	35.8	0	0
R992	358232	4680267	35.4	R992	358232	4680267	35.4	0	0
R993	358263	4680468	36.9	R993	358263	4680468	36.9	0	0
R994	358295	4680543	36.9	R994	358295	4680543	36.9	0	0
R995	358332	4680571	37.1	R995	358332	4680571	37.1	0	0
R996	358285	4680615	37.0	R996	358285	4680615	37.0	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R997	358314	4680661	36.9	R997	358314	4680661	36.9	0	0
R998	358322	4680688	36.9	R998	358322	4680688	36.9	0	0
R999	358239	4680688	36.2	R999	358239	4680688	36.2	0	0
R1000	358314	4680776	37.1	R1000	358314	4680776	37.1	0	0
R1002	356771	4680590	38.6	R1002	356771	4680590	38.5	0	-0.1
R1003	356829	4681163	37.6	R1003	356829	4681163	37.6	0	0
R1004	356846	4681414	37.9	R1004	356846	4681414	37.9	0	0
R1005	356913	4681430	37.6	R1005	356913	4681430	37.6	0	0
R1006	358359	4680913	36.9	R1006	358359	4680913	36.9	0	0
R1007	358365	4680943	35.6	R1007	358365	4680943	35.6	0	0
R1008	358350	4680991	35.7	R1008	358350	4680991	35.7	0	0
R1009	358305	4681046	37.3	R1009	358305	4681046	37.3	0	0
R1010	358414	4681213	36.7	R1010	358414	4681213	36.7	0	0
R1011	358356	4681190	36.9	R1011	358356	4681190	36.9	0	0
R1012	358376	4681240	36.7	R1012	358376	4681240	36.7	0	0
R1013	358373	4681278	36.8	R1013	358373	4681278	36.8	0	0
R1014	358366	4681309	36.7	R1014	358366	4681309	36.7	0	0
R1015	358357	4681337	36.6	R1015	358357	4681337	36.6	0	0
R1016	358302	4681454	36.6	R1016	358302	4681454	36.6	0	0
R1017	358652	4680855	36.4	R1017	358652	4680855	36.4	0	0
R1018	358718	4680849	36.3	R1018	358718	4680849	36.3	0	0
R1019	358660	4680883	35.3	R1019	358660	4680883	35.3	0	0
R1020	358730	4680935	36.5	R1020	358730	4680935	36.5	0	0
R1021	358731	4680960	35.0	R1021	358731	4680960	35.0	0	0
R1022	358732	4680991	35.1	R1022	358732	4680991	35.1	0	0
R1023	358734	4681018	36.7	R1023	358734	4681018	36.7	0	0
R1024	358727	4681050	35.2	R1024	358727	4681050	35.2	0	0
R1025	358656	4681031	36.5	R1025	358656	4681031	36.5	0	0
R1026	358657	4681083	35.0	R1026	358657	4681083	35.0	0	0
R1027	358663	4681109	36.6	R1027	358663	4681109	36.6	0	0
R1028	358658	4681138	37.0	R1028	358658	4681138	37.0	0	0
R1029	358739	4681174	35.6	R1029	358739	4681174	35.6	0	0
R1030	358757	4681254	35.9	R1030	358757	4681254	35.9	0	0
R1031	358660	4681302	36.8	R1031	358660	4681302	36.8	0	0
R1032	358611	4681342	36.6	R1032	358611	4681342	36.6	0	0
R1033	358682	4681358	35.3	R1033	358682	4681358	35.3	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R1034	358683	4681391	36.8	R1034	358683	4681391	36.8	0	0
R1035	358687	4681420	36.8	R1035	358687	4681420	36.8	0	0
R1036	358689	4681449	35.3	R1036	358689	4681449	35.3	0	0
R1037	358613	4681441	36.4	R1037	358613	4681441	36.4	0	0
R1038	358653	4681504	34.9	R1038	358653	4681504	34.9	0	0
R1039	358765	4681497	37.2	R1039	358765	4681497	37.2	0	0
R1040	359791	4681482	36.3	R1040	359791	4681482	36.3	0	0
R1042	359941	4681494	33.7	R1042	359941	4681494	33.7	0	0
R1043	365126	4681195	35.2	R1043	365126	4681195	34.9	0	-0.3
R1044	365106	4681197	36.4	R1044	365106	4681197	36.2	0	-0.2
R1045	365083	4681196	36.5	R1045	365083	4681196	36.3	0	-0.2
R1046	364962	4681421	34.5	R1046	364962	4681421	34.3	0	-0.2
R1047	365049	4681415	34.3	R1047	365049	4681415	34.1	0	-0.2
R1048	365037	4681250	35.3	R1048	365037	4681250	35.1	0	-0.2
R1049	364953	4681257	35.6	R1049	364953	4681257	35.5	0	-0.1
R1050	365094	4681312	35.9	R1050	365094	4681312	35.7	0	-0.2
R1051	365124	4681286	35.9	R1051	365124	4681286	35.7	0	-0.2
R1052	365158	4681280	35.9	R1052	365158	4681280	35.7	0	-0.2
R1053	365196	4681281	35.8	R1053	365196	4681281	35.6	0	-0.2
R1054	358846	4681590	37.6	R1054	358846	4681590	37.6	0	0
R1055	358701	4681535	36.6	R1055	358701	4681535	36.6	0	0
R1056	358693	4681573	35.5	R1056	358693	4681573	35.5	0	0
R1057	358476	4681555	34.4	R1057	358476	4681555	34.4	0	0
R1058	358279	4681546	36.3	R1058	358279	4681546	36.3	0	0
R1059	358289	4681591	34.8	R1059	358289	4681591	34.8	0	0
R1060	358016	4681622	36.6	R1060	358016	4681622	36.6	0	0
R1061	357995	4681664	37.5	R1061	357995	4681664	37.5	0	0
R1062	358764	4681711	36.1	R1062	358764	4681711	36.1	0	0
R1063	358707	4681734	35.0	R1063	358707	4681734	35.0	0	0
R1064	358699	4681775	35.4	R1064	358699	4681775	35.4	0	0
R1065	358664	4681804	34.5	R1065	358664	4681804	34.5	0	0
R1066	358708	4681900	33.2	R1066	358708	4681900	33.2	0	0
R1067	358708	4681953	34.3	R1067	358708	4681953	34.3	0	0
R1068	358735	4682001	34.1	R1068	358735	4682001	34.1	0	0
R1069	358667	4682005	34.0	R1069	358667	4682005	34.0	0	0
R1074	358258	4681830	35.1	R1074	358258	4681830	35.1	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R1075	358229	4681930	34.7	R1075	358229	4681930	34.7	0	0
R1076	358228	4681965	34.6	R1076	358228	4681965	34.6	0	0
R1077	358222	4681995	34.5	R1077	358222	4681995	34.4	0	-0.1
R1078	358228	4682059	34.2	R1078	358228	4682059	34.2	0	0
R1079	358223	4682095	32.7	R1079	358223	4682095	32.7	0	0
R1080	358261	4682223	31.8	R1080	358261	4682223	31.8	0	0
R1081	358271	4682268	33.0	R1081	358271	4682268	33.0	0	0
R1082	358306	4682324	32.6	R1082	358306	4682324	32.6	0	0
R1083	357367	4681851	37.8	R1083	357367	4681851	37.8	0	0
R1084	356872	4681832	35.4	R1084	356872	4681832	35.4	0	0
R1085	356880	4681880	35.1	R1085	356880	4681880	35.1	0	0
R1086	356929	4681889	34.2	R1086	356929	4681889	34.2	0	0
R1087	356851	4682226	32.8	R1087	356851	4682226	32.8	0	0
R1106	367791	4679456	36.4	R1106	367791	4679456	36.9	0	0.5
R1107	367822	4680053	37.6	R1107	367822	4680053	38.2	0	0.6
R1108	366724	4681059	38.9	R1108	366724	4681059	39.0	0	0.1
R1109	366895	4681162	38.7	R1109	366895	4681162	38.7	0	0
R1110	366999	4681050	39.4	R1110	366999	4681050	39.6	0	0.2
R1111	367362	4681126	39.8	R1111	367362	4681126	40.0	0	0.2
R1112	367767	4680998	38.0	R1112	367767	4680998	38.2	0	0.2
R1113	368082	4681086	37.1	R1113	368082	4681086	37.2	0	0.1
R1114	361029	4681295	36.1	R1114	361029	4681295	36.1	0	0
R1115	361017	4681057	37.5	R1115	361017	4681057	37.5	0	0
R1116	360987	4680969	37.8	R1116	360987	4680969	37.8	0	0
R1117	361001	4680908	38.2	R1117	361001	4680908	38.1	0	-0.1
R1118	360988	4680724	38.7	R1118	360988	4680724	38.7	0	0
R1120	360954	4680551	37.8	R1120	360954	4680551	37.7	0	-0.1
R1121	361064	4680467	40.0	R1121	361064	4680467	40.0	0	0
R1122	361041	4680281	38.5	R1122	361041	4680281	38.4	0	-0.1
R1123	360951	4680270	39.4	R1123	360951	4680270	39.4	0	0
R1124	360937	4680161	38.4	R1124	360937	4680161	38.4	0	0
R1125	361054	4680082	39.8	R1125	361054	4680082	39.8	0	0
R1126	360951	4680114	39.7	R1126	360951	4680114	39.7	0	0
R1127	360915	4679981	38.8	R1127	360915	4679981	38.8	0	0
R1128	360917	4679944	39.9	R1128	360917	4679944	39.9	0	0
R1129	360915	4679779	38.8	R1129	360915	4679779	38.8	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R1130	360981	4679716	39.7	R1130	360981	4679716	39.7	0	0
R1131	360905	4679716	39.8	R1131	360905	4679716	39.8	0	0
R1132	360911	4679633	39.7	R1132	360911	4679633	39.7	0	0
R1133	360980	4679626	38.4	R1133	360980	4679626	38.4	0	0
R1134	360967	4679507	39.4	R1134	360967	4679507	39.4	0	0
R1135	360884	4679351	38.2	R1135	360884	4679351	38.2	0	0
R1136	361057	4679287	38.0	R1136	361057	4679287	37.9	0	-0.1
R1137	360880	4679258	38.0	R1137	360880	4679258	38.1	0	0.1
R1138	360853	4679155	39.2	R1138	360853	4679155	39.2	0	0
R1139	360857	4678963	37.8	R1139	360857	4678963	37.9	0	0.1
R1140	360926	4678970	38.8	R1140	360926	4678970	38.8	0	0
R1141	360821	4678961	39.1	R1141	360821	4678961	39.2	0	0.1
R1143	360813	4678573	37.5	R1143	360813	4678573	37.3	0	-0.2
R1144	360902	4678513	37.0	R1144	360902	4678513	36.7	0	-0.3
R1145	360805	4678408	38.5	R1145	360805	4678408	38.2	0	-0.3
R1146	360877	4678256	38.3	R1146	360877	4678256	37.9	0	-0.4
R1147	360796	4678160	37.5	R1147	360796	4678160	36.7	0	-0.8
R1148	360779	4678084	37.7	R1148	360779	4678084	36.8	0	-0.9
R1149	360769	4678041	37.8	R1149	360769	4678041	36.9	0	-0.9
R1150	360877	4678051	37.1	R1150	360877	4678051	36.5	0	-0.6
R1151	360867	4678002	37.2	R1151	360867	4678002	36.7	0	-0.5
R1152	360876	4677946	38.6	R1152	360876	4677946	38.2	0	-0.4
R1153	360873	4677911	37.3	R1153	360873	4677911	36.8	0	-0.5
R1154	360849	4677843	38.9	R1154	360849	4677843	38.6	0	-0.3
R1155	360778	4677789	39.2	R1155	360778	4677789	39.0	0	-0.2
R1156	360881	4677684	37.5	R1156	360881	4677684	37.3	0	-0.2
R1158	361501	4678450	37.7	R1158	361501	4678450	37.6	0	-0.1
R1159	361527	4678453	37.8	R1159	361527	4678453	37.6	0	-0.2
R1160	362423	4678429	35.4	R1160	362423	4678429	35.3	0	-0.1
R1163	363715	4680245	38.1	R1163	363715	4680245	38.0	0	-0.1
R1164	363734	4680579	37.0	R1164	363734	4680579	36.9	0	-0.1
R1165	366543	4681084	38.7	R1165	366543	4681084	38.7	0	0
R1166	366496	4680547	36.3	R1166	366496	4680547	36.2	0	-0.1
R1167	366551	4680197	37.2	R1167	366551	4680197	37.3	0	0.1
R1168	366472	4680147	37.2	R1168	366472	4680147	37.1	0	-0.1
R1170	366413	4679720	39.4	R1170	366413	4679720	39.3	0	-0.1

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R1171	366432	4679481	39.8	R1171	366432	4679481	39.9	0	0.1
R1172	366464	4679162	39.2	R1172	366464	4679162	39.4	0	0.2
R1173	366250	4678999	38.6	R1173	366250	4678999	38.6	0	0
R1174	366396	4678991	37.7	R1174	366396	4678991	37.8	0	0.1
R1176	366340	4678761	38.5	R1176	366340	4678761	38.6	0	0.1
R1178	365054	4681197	35.5	R1178	365054	4681197	35.3	0	-0.2
R1182	362223	4677817	36.1	R1182	362223	4677817	36.0	0	-0.1
R1183	362233	4677935	35.8	R1183	362233	4677935	35.6	0	-0.2
R1184	362235	4677988	35.7	R1184	362235	4677988	35.5	0	-0.2
R1185	362171	4678164	37.5	R1185	362171	4678164	37.4	0	-0.1
R1186	362257	4678242	35.8	R1186	362257	4678242	35.7	0	-0.1
R1187	362188	4678418	37.0	R1187	362188	4678418	36.9	0	-0.1
R1188	362270	4678536	35.7	R1188	362270	4678536	35.6	0	-0.1
R1189	362274	4678697	37.4	R1189	362274	4678697	37.3	0	-0.1
R1190	362206	4678783	37.8	R1190	362206	4678783	37.7	0	-0.1
R1191	362292	4678800	37.6	R1191	362292	4678800	37.5	0	-0.1
R1192	362347	4678849	37.5	R1192	362347	4678849	37.4	0	-0.1
R1193	362294	4678907	36.5	R1193	362294	4678907	36.4	0	-0.1
R1194	362327	4678961	37.8	R1194	362327	4678961	37.7	0	-0.1
R1195	362219	4679051	37.3	R1195	362219	4679051	37.2	0	-0.1
R1196	362296	4679140	38.1	R1196	362296	4679140	38.0	0	-0.1
R1197	362314	4679235	36.9	R1197	362314	4679235	36.8	0	-0.1
R1198	362324	4679298	38.1	R1198	362324	4679298	38.1	0	0
R1199	362254	4679419	37.2	R1199	362254	4679419	37.2	0	0
R1200	362335	4679503	38.2	R1200	362335	4679503	38.2	0	0
R1201	362342	4679598	37.1	R1201	362342	4679598	37.0	0	-0.1
R1202	362360	4679840	38.6	R1202	362360	4679840	38.5	0	-0.1
R1203	362300	4679949	38.8	R1203	362300	4679949	38.8	0	0
R1204	362375	4680132	37.8	R1204	362375	4680132	37.7	0	-0.1
R1205	362324	4680372	39.5	R1205	362324	4680372	39.5	0	0
R1206	362423	4680516	39.2	R1206	362423	4680516	39.2	0	0
R1207	362309	4680743	38.3	R1207	362309	4680743	38.3	0	0
R1208	362445	4680897	38.4	R1208	362445	4680897	38.4	0	0
R1210	361082	4682133	30.5	R1210	361082	4682133	30.4	0	-0.1
R1211	361085	4682041	32.1	R1211	361085	4682041	32.0	0	-0.1
R1212	361177	4682064	32.0	R1212	361177	4682064	32.0	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R1213	361303	4681939	32.8	R1213	361303	4681939	32.7	0	-0.1
R1214	361050	4681773	33.3	R1214	361050	4681773	33.3	0	0
R1215	361057	4681732	33.6	R1215	361057	4681732	33.5	0	-0.1
R1216	361048	4681584	33.3	R1216	361048	4681584	33.2	0	-0.1
R1217	361045	4681511	34.8	R1217	361045	4681511	34.8	0	0
R1218	360504	4681468	32.9	R1218	360504	4681468	32.9	0	0
R1219	360535	4681466	32.9	R1219	360535	4681466	32.9	0	0
R1220	360584	4681563	32.6	R1220	360584	4681563	32.5	0	-0.1
R1221	360582	4681465	34.3	R1221	360582	4681465	34.2	0	-0.1
R1222	361220	4681428	34.9	R1222	361220	4681428	34.9	0	0
R1223	361281	4681499	34.5	R1223	361281	4681499	34.5	0	0
R1224	361658	4681405	36.3	R1224	361658	4681405	36.3	0	0
R1225	361699	4681392	37.4	R1225	361699	4681392	37.3	0	-0.1
R1226	362373	4681356	35.9	R1226	362373	4681356	35.9	0	0
R1227	362459	4681433	34.2	R1227	362459	4681433	34.2	0	0
R1228	362741	4681409	35.4	R1228	362741	4681409	35.3	0	-0.1
R1229	362972	4681322	36.1	R1229	362972	4681322	36.0	0	-0.1
R1230	363103	4681410	34.5	R1230	363103	4681410	34.4	0	-0.1
R1231	363429	4681307	35.9	R1231	363429	4681307	35.8	0	-0.1
R1232	363789	4681374	35.8	R1232	363789	4681374	35.7	0	-0.1
R1233	363780	4681258	34.6	R1233	363780	4681258	34.5	0	-0.1
R1234	360788	4678590	37.7	R1234	360788	4678590	37.5	0	-0.2
R1235	358689	4677814	35.1	R1235	358689	4677814	35.1	0	0
R1236	358680	4678142	36.3	R1236	358680	4678142	36.3	0	0
R1237	358595	4679881	35.8	R1237	358595	4679881	35.8	0	0
R1238	358575	4679942	35.8	R1238	358575	4679942	35.8	0	0
R1239	358695	4681594	35.8	R1239	358695	4681594	35.8	0	0
R1246	358773	4681593	37.1	R1246	358773	4681593	37.0	0	-0.1
R1247	358770	4681555	37.0	R1247	358770	4681555	37.0	0	0
R1248	358736	4681199	37.1	R1248	358736	4681199	37.1	0	0
R1250	362097	4677755	36.5	R1250	362097	4677755	36.4	0	-0.1
R1251	362264	4678414	37.0	R1251	362264	4678414	36.9	0	-0.1
R1252	362192	4678651	37.4	R1252	362192	4678651	37.4	0	0
R1253	362241	4679279	38.4	R1253	362241	4679279	38.4	0	0
R1255	358358	4682461	31.8	R1255	358358	4682461	31.8	0	0
R1256	358233	4681892	33.5	R1256	358233	4681892	33.5	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R1257	358400	4681693	34.0	R1257	358400	4681693	33.9	0	-0.1
R1258	358375	4681614	34.3	R1258	358375	4681614	34.3	0	0
R1259	358113	4679306	35.1	R1259	358113	4679306	35.1	0	0
R1260	358414	4678519	35.8	R1260	358414	4678519	35.8	0	0
R1261	358445	4677855	36.6	R1261	358445	4677855	36.6	0	0
R1262	358446	4677818	36.6	R1262	358446	4677818	36.6	0	0
R1263	358302	4678305	36.7	R1263	358302	4678305	36.7	0	0
R1264	358505	4681710	33.8	R1264	358505	4681710	33.8	0	0
R1265	356914	4681667	35.9	R1265	356914	4681667	35.9	0	0
R1266	356917	4681628	36.3	R1266	356917	4681628	36.3	0	0
R1267	356710	4678197	37.6	R1267	356710	4678197	37.6	0	0
R1268	361130	4681438	34.5	R1268	361130	4681438	34.4	0	-0.1
R1269	365167	4680356	36.9	R1269	365167	4680356	36.1	0	-0.8
R1270	365171	4680392	36.8	R1270	365171	4680392	36.1	0	-0.7
R1271	365173	4680419	36.8	R1271	365173	4680419	36.0	0	-0.8
R1272	365173	4680446	36.8	R1272	365173	4680446	36.0	0	-0.8
R1273	365178	4680493	37.8	R1273	365178	4680493	37.2	0	-0.6
R1274	365182	4680538	36.6	R1274	365182	4680538	36.0	0	-0.6
R1275	365119	4680567	38.0	R1275	365119	4680567	37.5	0	-0.5
R1276	365186	4680568	37.7	R1276	365186	4680568	37.1	0	-0.6
R1277	365178	4680596	36.6	R1277	365178	4680596	36.0	0	-0.6
R1278	365123	4680598	36.9	R1278	365123	4680598	36.5	0	-0.4
R1279	365131	4680674	37.9	R1279	365131	4680674	37.4	0	-0.5
R1280	365125	4680712	37.9	R1280	365125	4680712	37.5	0	-0.4
R1281	365128	4680740	37.8	R1281	365128	4680740	37.4	0	-0.4
R1282	365129	4680791	36.7	R1282	365129	4680791	36.4	0	-0.3
R1283	365134	4680816	36.6	R1283	365134	4680816	36.3	0	-0.3
R1284	365134	4680840	37.6	R1284	365134	4680840	37.2	0	-0.4
R1285	365120	4680535	37.0	R1285	365120	4680535	36.5	0	-0.5
R1286	365138	4680883	36.4	R1286	365138	4680883	36.1	0	-0.3
R1287	365184	4680858	37.2	R1287	365184	4680858	36.9	0	-0.3
R1288	365189	4680887	37.1	R1288	365189	4680887	36.8	0	-0.3
R1289	365139	4680922	36.3	R1289	365139	4680922	36.0	0	-0.3
R1290	365206	4680936	37.3	R1290	365206	4680936	37.0	0	-0.3
R1291	365193	4680955	36.9	R1291	365193	4680955	36.6	0	-0.3
R1292	365199	4680976	35.7	R1292	365199	4680976	35.4	0	-0.3

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R1293	365197	4680990	36.8	R1293	365197	4680990	36.5	0	-0.3
R1294	365200	4681012	36.7	R1294	365200	4681012	36.4	0	-0.3
R1295	365198	4681039	36.6	R1295	365198	4681039	36.3	0	-0.3
R1296	365202	4681060	36.6	R1296	365202	4681060	36.3	0	-0.3
R1297	365201	4681084	36.5	R1297	365201	4681084	36.2	0	-0.3
R1298	365207	4681121	36.3	R1298	365207	4681121	36.1	0	-0.2
R1299	365120	4680626	38.0	R1299	365120	4680626	37.5	0	-0.5
R1300	365297	4680850	35.6	R1300	365297	4680850	35.1	0	-0.5
R1301	365135	4680865	37.5	R1301	365135	4680865	37.2	0	-0.3
R1302	365137	4680905	36.4	R1302	365137	4680905	36.1	0	-0.3
R1303	365141	4680943	36.2	R1303	365141	4680943	35.9	0	-0.3
R1304	365142	4680969	36.1	R1304	365142	4680969	35.8	0	-0.3
R1305	365143	4680997	36.0	R1305	365143	4680997	35.7	0	-0.3
R1306	365145	4681022	35.8	R1306	365145	4681022	35.6	0	-0.2
R1307	365148	4681049	35.7	R1307	365148	4681049	35.4	0	-0.3
R1308	365150	4681105	36.6	R1308	365150	4681105	36.3	0	-0.3
R1309	365148	4681074	36.7	R1309	365148	4681074	36.5	0	-0.2
R1310	365152	4681132	36.5	R1310	365152	4681132	36.2	0	-0.3
R1311	365165	4680295	37.1	R1311	365165	4680295	36.1	0	-1
R1312	365208	4681162	36.2	R1312	365208	4681162	35.9	0	-0.3
R1313	365210	4681185	36.1	R1313	365210	4681185	35.8	0	-0.3
R1314	365169	4681209	36.1	R1314	365169	4681209	35.9	0	-0.2
R1315	365163	4681172	36.7	R1315	365163	4681172	36.5	0	-0.2
R1367	366264	4675706	38.1	R1367	366264	4675706	38.1	0	0
R1368	366255	4675739	37.9	R1368	366255	4675739	37.9	0	0
R1369	366014	4675825	38.4	R1369	366014	4675825	38.4	0	0
R1370	365095	4675903	34.1	R1370	365095	4675903	34.0	0	-0.1
R1371	364875	4675971	36.1	R1371	364875	4675971	36.1	0	0
R1372	364669	4675916	36.3	R1372	364669	4675916	36.2	0	-0.1
R1373	364289	4675895	37.2	R1373	364289	4675895	37.2	0	0
R1374	364298	4675953	37.3	R1374	364298	4675953	37.3	0	0
R1375	364834	4676315	37.0	R1375	364834	4676315	36.9	0	-0.1
R1376	364855	4676528	37.6	R1376	364855	4676528	37.6	0	0
R1377	364933	4676518	36.0	R1377	364933	4676518	35.9	0	-0.1
R1378	364915	4676480	37.4	R1378	364915	4676480	37.3	0	-0.1
R1379	364964	4676292	36.8	R1379	364964	4676292	36.7	0	-0.1

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ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R1380	364881	4676202	36.6	R1380	364881	4676202	36.6	0	0
R1381	364881	4676109	36.4	R1381	364881	4676109	36.3	0	-0.1
R1382	366252	4676015	38.7	R1382	366252	4676015	38.7	0	0
R1383	366261	4676064	38.6	R1383	366261	4676064	38.6	0	0
R1384	366262	4676094	36.7	R1384	366262	4676094	36.7	0	0
R1385	366309	4676182	38.5	R1385	366309	4676182	38.5	0	0
R1386	366464	4676336	38.6	R1386	366464	4676336	38.6	0	0
R1396	366672	4676675	38.3	R1396	366672	4676675	38.3	0	0
R1397	364847	4676567	36.3	R1397	364847	4676567	36.2	0	-0.1
R1398	364845	4676612	37.9	R1398	364845	4676612	37.9	0	0
R1399	364850	4676650	36.7	R1399	364850	4676650	36.6	0	-0.1
R1400	364862	4676719	38.3	R1400	364862	4676719	38.3	0	0
R1401	364870	4676765	38.5	R1401	364870	4676765	38.5	0	0
R1402	364932	4676712	38.2	R1402	364932	4676712	38.2	0	0
R1403	364870	4676871	37.7	R1403	364870	4676871	37.6	0	-0.1
R1404	364935	4676839	38.7	R1404	364935	4676839	38.6	0	-0.1
R1405	364942	4676787	38.5	R1405	364942	4676787	38.4	0	-0.1
R1406	364892	4676351	35.4	R1406	364892	4676351	35.3	0	-0.1
R1409	365106	4680405	37.0	R1409	365106	4680405	36.4	0	-0.6
R1410	365108	4680477	37.0	R1410	365108	4680477	36.5	0	-0.5
R1411	365117	4680516	38.0	R1411	365117	4680516	37.5	0	-0.5
R1434	371937	4678283	34.8	R1434	371937	4678283	34.9	0	0.1
R1436	371915	4678537	32.4	R1436	371915	4678537	32.5	0	0.1
R1438	371998	4679154	31.9	R1438	371998	4679154	32.0	0	0.1
R1466	365096	4680333	37.1	R1466	365096	4680333	36.5	0	-0.6
R1467	365087	4680199	38.9	R1467	365087	4680199	38.1	0	-0.8
R1468	365151	4680027	37.7	R1468	365151	4680027	36.6	0	-1.1
R1469	365068	4679978	37.9	R1469	365068	4679978	37.1	0	-0.8
R1470	365196	4679917	39.1	R1470	365196	4679917	37.8	0	-1.3
R1471	365121	4679846	39.1	R1471	365121	4679846	38.1	0	-1
R1473	365154	4679715	38.0	R1473	365154	4679715	36.9	0	-1.1
R1474	365062	4679716	39.1	R1474	365062	4679716	38.3	0	-0.8
R1475	365043	4679673	37.9	R1475	365043	4679673	37.3	0	-0.6
R1476	365049	4679567	37.8	R1476	365049	4679567	37.2	0	-0.6
R1477	365022	4679522	38.9	R1477	365022	4679522	38.4	0	-0.5
R1478	365049	4679467	38.8	R1478	365049	4679467	38.3	0	-0.5

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ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R1479	365098	4679231	37.3	R1479	365098	4679231	36.9	0	-0.4
R1480	365082	4679161	38.5	R1480	365082	4679161	38.1	0	-0.4
R1481	365085	4679105	38.4	R1481	365085	4679105	38.1	0	-0.3
R1482	365100	4679072	38.4	R1482	365100	4679072	38.1	0	-0.3
R1483	365092	4678998	38.4	R1483	365092	4678998	38.1	0	-0.3
R1484	365013	4678928	38.6	R1484	365013	4678928	38.3	0	-0.3
R1485	365073	4678875	37.2	R1485	365073	4678875	36.9	0	-0.3
R1486	364986	4678802	37.5	R1486	364986	4678802	37.3	0	-0.2
R1487	365046	4678705	38.6	R1487	365046	4678705	38.3	0	-0.3
R1489	365004	4678752	38.7	R1489	365004	4678752	38.4	0	-0.3
R1490	365055	4678516	37.5	R1490	365055	4678516	37.2	0	-0.3
R1491	364989	4678533	38.8	R1491	364989	4678533	38.6	0	-0.2
R1492	365043	4678583	39.0	R1492	365043	4678583	38.8	0	-0.2
R1493	365033	4678449	38.8	R1493	365033	4678449	38.6	0	-0.2
R1494	364955	4678404	39.0	R1494	364955	4678404	38.8	0	-0.2
R1495	364950	4678303	39.2	R1495	364950	4678303	38.9	0	-0.3
R1496	365025	4678255	37.9	R1496	365025	4678255	37.6	0	-0.3
R1497	364951	4678142	38.1	R1497	364951	4678142	37.8	0	-0.3
R1498	364954	4678067	39.4	R1498	364954	4678067	39.2	0	-0.2
R1499	365009	4677993	38.2	R1499	365009	4677993	38.0	0	-0.2
R1501	364934	4677927	39.6	R1501	364934	4677927	39.3	0	-0.3
R1502	365011	4677821	38.4	R1502	365011	4677821	38.2	0	-0.2
R1505	365032	4677608	39.8	R1505	365032	4677608	39.7	0	-0.1
R1506	364985	4677562	38.5	R1506	364985	4677562	38.4	0	-0.1
R1509	364951	4677197	39.7	R1509	364951	4677197	39.6	0	-0.1
R1510	364888	4677144	38.6	R1510	364888	4677144	38.5	0	-0.1
R1511	364882	4677082	39.7	R1511	364882	4677082	39.6	0	-0.1
R1512	364954	4677042	39.3	R1512	364954	4677042	39.3	0	0
R1528	364933	4676866	37.5	R1528	364933	4676866	37.4	0	-0.1
R1591	356663	4677222	34.9	R1591	356663	4677222	34.9	0	0
R1734	358663	4677638	36.5	R1734	358663	4677638	36.5	0	0
R1735	358748	4678345	36.1	R1735	358748	4678345	36.1	0	0
R2088	353227	4678352	32.0	R2088	353227	4678352	32.0	0	0
R2089	353533	4678356	33.5	R2089	353533	4678356	33.5	0	0
R2103	353852	4678317	34.7	R2103	353852	4678317	34.7	0	0
R2105	353177	4678373	31.9	R2105	353177	4678373	31.9	0	0

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ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R2107	354146	4681381	32.9	R2107	354146	4681381	32.9	0	0
R2108	354055	4678734	39.4	R2108	354055	4678734	39.4	0	0
R2109	354098	4680977	35.7	R2109	354098	4680977	35.7	0	0
R2110	354128	4681318	32.1	R2110	354128	4681318	32.1	0	0
R2111	354099	4680994	34.4	R2111	354099	4680994	34.4	0	0
R2112	354149	4681499	32.2	R2112	354149	4681499	32.2	0	0
R2113	354123	4681127	34.6	R2113	354123	4681127	34.6	0	0
R2114	354131	4681348	33.1	R2114	354131	4681348	33.1	0	0
R2116	354199	4681654	30.2	R2116	354199	4681654	30.2	0	0
R2260	355467	4681472	32.9	R2260	355467	4681472	32.9	0	0
R2261	355528	4681421	33.1	R2261	355528	4681421	33.1	0	0
R2262	355526	4681332	33.5	R2262	355526	4681332	33.5	0	0
R2263	355441	4681301	33.7	R2263	355441	4681301	33.7	0	0
R2264	355515	4681155	34.4	R2264	355515	4681155	34.4	0	0
R2265	355649	4681129	34.5	R2265	355649	4681129	34.5	0	0
R2266	355428	4680991	35.2	R2266	355428	4680991	35.2	0	0
R2268	356628	4678513	36.7	R2268	356628	4678513	36.7	0	0
R2273	356588	4676580	30.2	R2273	356588	4676580	30.1	0	-0.1
R2274	356611	4676741	32.2	R2274	356611	4676741	32.2	0	0
R2286	355183	4677218	31.8	R2286	355183	4677218	31.8	0	0
R2287	356567	4677356	34.8	R2287	356567	4677356	34.8	0	0
R2288	356516	4677467	35.2	R2288	356516	4677467	35.1	0	-0.1
R2289	356603	4677800	36.8	R2289	356603	4677800	36.8	0	0
R2290	356600	4677837	36.9	R2290	356600	4677837	36.9	0	0
R2291	356624	4678169	36.4	R2291	356624	4678169	36.4	0	0
R2292	356631	4678227	36.5	R2292	356631	4678227	36.5	0	0
R2293	356681	4678198	37.7	R2293	356681	4678198	37.6	0	-0.1
R2294	356622	4676986	33.2	R2294	356622	4676986	33.2	0	0
R2295	355484	4680731	35.3	R2295	355484	4680731	35.3	0	0
R2296	355491	4680579	36.1	R2296	355491	4680579	36.1	0	0
R2297	355474	4680542	36.3	R2297	355474	4680542	36.3	0	0
R2298	355398	4680539	36.5	R2298	355398	4680539	36.5	0	0
R2299	355381	4680360	37.3	R2299	355381	4680360	37.3	0	0
R2300	355450	4680128	38.9	R2300	355450	4680128	38.9	0	0
R2302	355445	4679970	39.1	R2302	355445	4679970	39.1	0	0
R2303	355425	4679480	37.7	R2303	355425	4679480	37.7	0	0

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ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R2304	355200	4677519	33.4	R2304	355200	4677519	33.4	0	0
R2305	355230	4677861	35.6	R2305	355230	4677861	35.6	0	0
R2306	355218	4678124	37.2	R2306	355218	4678124	37.1	0	-0.1
R2307	355254	4678237	36.9	R2307	355254	4678237	36.9	0	0
R2308	355133	4678254	36.0	R2308	355133	4678254	36.0	0	0
R2309	355321	4679222	39.3	R2309	355321	4679222	39.3	0	0
R2310	355384	4679252	39.1	R2310	355384	4679252	39.0	0	-0.1
R2311	355376	4678868	39.6	R2311	355376	4678868	39.6	0	0
R2312	355293	4678766	39.4	R2312	355293	4678766	39.4	0	0
R2313	355287	4678649	39.4	R2313	355287	4678649	39.4	0	0
R2315	355238	4678388	38.6	R2315	355238	4678388	38.6	0	0
R2334	356665	4678016	37.5	R2334	356665	4678016	37.5	0	0
R2336	354123	4681026	35.4	R2336	354123	4681026	35.4	0	0
R2337	354148	4681436	31.4	R2337	354148	4681436	31.4	0	0
R2338	354160	4681414	31.6	R2338	354160	4681414	31.6	0	0
R2416	358772	4677913	35.3	R2416	358772	4677913	35.4	0	0.1
R2426	366385	4678036	38.8	R2426	366385	4678036	38.8	0	0
R2458	352631	4679348	29.8	R2458	352631	4679348	29.8	0	0
V3060	358431	4677783	36.6	R2511	358487	4677789	36.5	56	-0.1
V2687	358718	4682059	33.7	R2512	358714	4682071	33.7	13	0
V2556	365079	4680280	38.4	R2513	365067	4680279	37.7	12	-0.7
V2570	364899	4677379	40.0	R2514	364899	4677379	39.9	0	-0.1
#N/A	#N/A	#N/A	#N/A	R2515	365259	4679891	37.8	N/A	#N/A
V2479	361031	4681622	34.2	V2479	361031	4681622	34.1	0	-0.1
V2480	365300	4681264	35.8	V2480	365300	4681264	35.6	0	-0.2
V2481	365300	4681264	35.8	V2481	365300	4681264	35.6	0	-0.2
V2482	359518	4678440	38.6	V2482	359518	4678440	38.5	0	-0.1
V2483	358881	4681521	38.5	V2483	358881	4681521	38.5	0	0
V2484	359548	4678437	38.7	V2484	359548	4678437	38.6	0	-0.1
V2485	359579	4678435	38.8	V2485	359579	4678435	38.7	0	-0.1
V2486	359609	4678433	38.9	V2486	359609	4678433	38.8	0	-0.1
V2487	359640	4678431	39.0	V2487	359640	4678431	38.8	0	-0.2
V2488	359670	4678429	39.2	V2488	359670	4678429	38.9	0	-0.3
V2489	359700	4678427	39.3	V2489	359700	4678427	39.0	0	-0.3
V2490	359731	4678425	39.4	V2490	359731	4678425	39.1	0	-0.3
V2491	359770	4678412	39.6	V2491	359770	4678412	39.2	0	-0.4

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V2492	359799	4678441	39.7	V2492	359799	4678441	39.2	0	-0.5
V2495	359805	4678511	39.6	V2495	359805	4678511	39.3	0	-0.3
V2496	359780	4678544	39.4	V2496	359780	4678544	39.2	0	-0.2
V2497	359739	4678536	39.2	V2497	359739	4678536	39.0	0	-0.2
V2498	358762	4678163	36.4	V2498	358762	4678163	36.4	0	0
V2499	359222	4678572	37.1	V2499	359222	4678572	37.1	0	0
V2500	359191	4678574	36.9	V2500	359191	4678574	36.9	0	0
V2501	359161	4678576	36.8	V2501	359161	4678576	36.8	0	0
V2502	359131	4678578	36.7	V2502	359131	4678578	36.7	0	0
V2503	359100	4678580	36.6	V2503	359100	4678580	36.6	0	0
V2504	359070	4678582	36.5	V2504	359070	4678582	36.5	0	0
V2505	359039	4678584	36.4	V2505	359039	4678584	36.4	0	0
V2506	358956	4678590	36.2	V2506	358956	4678590	36.2	0	0
V2509	358700	4679670	35.9	V2509	358700	4679670	35.9	0	0
V2510	359708	4678538	39.1	V2510	359708	4678538	38.9	0	-0.2
V2511	359678	4678540	38.9	V2511	359678	4678540	38.7	0	-0.2
V2512	359647	4678542	38.8	V2512	359647	4678542	38.6	0	-0.2
V2513	359617	4678544	38.6	V2513	359617	4678544	38.5	0	-0.1
V2514	359587	4678546	38.5	V2514	359587	4678546	38.4	0	-0.1
V2515	359556	4678549	38.4	V2515	359556	4678549	38.3	0	-0.1
V2516	359526	4678551	38.2	V2516	359526	4678551	38.2	0	0
V2517	359495	4678553	38.1	V2517	359495	4678553	38.0	0	-0.1
V2518	359465	4678555	38.0	V2518	359465	4678555	37.9	0	-0.1
V2519	359435	4678557	37.9	V2519	359435	4678557	37.8	0	-0.1
V2520	359404	4678559	37.7	V2520	359404	4678559	37.7	0	0
V2521	359374	4678561	37.6	V2521	359374	4678561	37.6	0	0
V2522	358922	4678592	36.1	V2522	358922	4678592	36.1	0	0
V2523	358889	4678594	36.0	V2523	358889	4678594	36.0	0	0
V2524	358855	4678597	35.9	V2524	358855	4678597	36.0	0	0.1
V2525	358822	4678599	35.9	V2525	358822	4678599	35.9	0	0
V2526	358787	4678604	35.8	V2526	358787	4678604	35.8	0	0
V2527	358793	4678491	36.0	V2527	358793	4678491	36.0	0	0
V2528	358826	4678486	36.0	V2528	358826	4678486	36.0	0	0
V2529	358857	4678484	36.1	V2529	358857	4678484	36.1	0	0
V2530	359214	4678460	37.3	V2530	359214	4678460	37.3	0	0
V2531	359244	4678458	37.4	V2531	359244	4678458	37.5	0	0.1

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ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
V2532	359275	4678456	37.6	V2532	359275	4678456	37.6	0	0
V2533	359305	4678454	37.7	V2533	359305	4678454	37.7	0	0
V2534	359336	4678452	37.8	V2534	359336	4678452	37.8	0	0
V2535	359366	4678450	38.0	V2535	359366	4678450	38.0	0	0
V2536	359396	4678448	38.1	V2536	359396	4678448	38.1	0	0
V2537	359427	4678446	38.2	V2537	359427	4678446	38.2	0	0
V2538	359457	4678444	38.3	V2538	359457	4678444	38.3	0	0
V2539	359488	4678442	38.5	V2539	359488	4678442	38.4	0	-0.1
V2540	358887	4678482	36.2	V2540	358887	4678482	36.2	0	0
V2541	358917	4678480	36.2	V2541	358917	4678480	36.3	0	0.1
V2542	358948	4678478	36.3	V2542	358948	4678478	36.4	0	0.1
V2543	359032	4678472	36.6	V2543	359032	4678472	36.6	0	0
V2544	359062	4678470	36.7	V2544	359062	4678470	36.7	0	0
V2545	359092	4678468	36.8	V2545	359092	4678468	36.8	0	0
V2546	359123	4678466	36.9	V2546	359123	4678466	37.0	0	0.1
V2547	359153	4678464	37.0	V2547	359153	4678464	37.1	0	0.1
V2548	359184	4678462	37.2	V2548	359184	4678462	37.2	0	0
V2551	359343	4678563	37.5	V2551	359343	4678563	37.5	0	0
V2552	359313	4678565	37.4	V2552	359313	4678565	37.4	0	0
V2553	359283	4678567	37.3	V2553	359283	4678567	37.3	0	0
V2554	359252	4678569	37.2	V2554	359252	4678569	37.2	0	0
V2555	358706	4679863	36.0	V2555	358706	4679863	36.0	0	0
V2557	365001	4679163	38.7	V2557	365001	4679163	38.4	0	-0.3
V2558	365219	4681109	36.3	V2558	365219	4681109	36.1	0	-0.2
V2560	365204	4680872	37.1	V2560	365204	4680872	36.7	0	-0.4
V2562	365225	4681205	36.0	V2562	365225	4681205	35.7	0	-0.3
V2564	364944	4678245	39.2	V2564	364944	4678245	39.0	0	-0.2
V2565	364905	4677478	39.9	V2565	364905	4677478	39.8	0	-0.1
V2566	360899	4678426	38.2	V2566	360899	4678426	37.9	0	-0.3
V2567	361153	4681396	36.0	V2567	361153	4681396	35.9	0	-0.1
V2568	364351	4681350	36.5	V2568	364351	4681350	36.4	0	-0.1
V2571	365106	4679374	38.7	V2571	365106	4679374	38.2	0	-0.5
V2573	362316	4678336	37.0	V2573	362316	4678336	36.8	0	-0.2
V2576	360986	4678506	38.0	V2576	360986	4678506	37.8	0	-0.2
V2577	360922	4678737	38.5	V2577	360922	4678737	38.4	0	-0.1
V2578	365037	4678157	39.3	V2578	365037	4678157	39.0	0	-0.3

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V2580	361076	4680509	39.7	V2580	361076	4680509	39.6	0	-0.1
V2581	368339	4679663	36.7	V2581	368339	4679663	37.2	0	0.5
V2582	368327	4678133	37.8	V2582	368327	4678133	38.1	0	0.3
V2585	368531	4680929	35.4	V2585	368531	4680929	35.6	0	0.2
V2586	365180	4679979	39.0	V2586	365180	4679979	37.7	0	-1.3
V2587	365666	4681237	36.4	V2587	365666	4681237	36.1	0	-0.3
V2588	365440	4681175	35.9	V2588	365440	4681175	35.6	0	-0.3
V2589	365559	4681359	36.1	V2589	365559	4681359	35.9	0	-0.2
V2590	366553	4680256	38.2	V2590	366553	4680256	38.3	0	0.1
V2591	365512	4681174	36.0	V2591	365512	4681174	35.7	0	-0.3
V2592	365269	4681186	36.0	V2592	365269	4681186	35.7	0	-0.3
V2593	365300	4681184	35.9	V2593	365300	4681184	35.7	0	-0.2
V2594	365360	4681180	35.9	V2594	365360	4681180	35.6	0	-0.3
V2595	365347	4681245	35.8	V2595	365347	4681245	35.6	0	-0.2
V2599	365366	4681366	35.7	V2599	365366	4681366	35.5	0	-0.2
V2600	365368	4681243	35.8	V2600	365368	4681243	35.6	0	-0.2
V2601	366486	4680499	37.6	V2601	366486	4680499	37.6	0	0
V2603	365013	4677537	39.8	V2603	365013	4677537	39.7	0	-0.1
V2609	360706	4676792	39.5	V2609	360706	4676792	39.5	0	0
V2610	360708	4676822	39.5	V2610	360708	4676822	39.5	0	0
V2613	358506	4676948	36.1	V2613	358506	4676948	36.1	0	0
V2614	358522	4676912	36.2	V2614	358522	4676912	36.2	0	0
V2617	366309	4676586	38.2	V2617	366309	4676586	38.2	0	0
V2619	358496	4676880	36.1	V2619	358496	4676880	36.1	0	0
V2641	358809	4681933	34.7	V2641	358809	4681933	34.7	0	0
V2648	363252	4681403	35.5	V2648	363252	4681403	35.5	0	0
V2652	362905	4681422	35.4	V2652	362905	4681422	35.3	0	-0.1
V2657	361047	4681912	32.7	V2657	361047	4681912	32.6	0	-0.1
V2658	361033	4681672	33.9	V2658	361033	4681672	33.9	0	0
V2666	364379	4681759	33.8	V2666	364379	4681759	33.6	0	-0.2
V2667	363553	4681386	35.3	V2667	363553	4681386	35.2	0	-0.1
V2668	364050	4681357	35.6	V2668	364050	4681357	35.5	0	-0.1
V2683	361059	4682081	31.9	V2683	361059	4682081	31.8	0	-0.1
V2689	360844	4679072	39.1	V2689	360844	4679072	39.2	0	0.1
V2690	358912	4677654	37.4	V2690	358912	4677654	37.5	0	0.1
V2692	358824	4678274	36.3	V2692	358824	4678274	36.4	0	0.1

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ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
V2693	361026	4681556	34.5	V2693	361026	4681556	34.5	0	0
V2694	360791	4678354	38.6	V2694	360791	4678354	38.1	0	-0.5
V2695	358674	4679324	35.6	V2695	358674	4679324	35.6	0	0
V2696	358685	4679242	35.6	V2696	358685	4679242	35.6	0	0
V2697	359111	4679097	36.9	V2697	359111	4679097	36.9	0	0
V2698	359407	4679078	38.2	V2698	359407	4679078	38.2	0	0
V2700	358686	4679527	35.8	V2700	358686	4679527	35.8	0	0
V2701	360785	4678256	38.7	V2701	360785	4678256	38.1	0	-0.6
V2702	358753	4681109	37.0	V2702	358753	4681109	37.0	0	0
V2703	358743	4680892	36.4	V2703	358743	4680892	36.4	0	0
V2706	361185	4682172	31.5	V2706	361185	4682172	31.5	0	0
V2707	358735	4680638	36.0	V2707	358735	4680638	36.0	0	0
V2711	360873	4679501	39.6	V2711	360873	4679501	39.6	0	0
V2712	360731	4677452	39.5	V2712	360731	4677452	39.6	0	0.1
V2713	359116	4678984	36.7	V2713	359116	4678984	36.7	0	0
V2714	358784	4679019	35.7	V2714	358784	4679019	35.7	0	0
V2716	358740	4678797	35.6	V2716	358740	4678797	35.6	0	0
V2717	360922	4680221	39.5	V2717	360922	4680221	39.5	0	0
V2718	360967	4680787	38.4	V2718	360967	4680787	38.4	0	0
V2719	358720	4680109	36.0	V2719	358720	4680109	36.0	0	0
V2723	358805	4679915	36.4	V2723	358805	4679915	36.4	0	0
V2728	361007	4681367	35.6	V2728	361007	4681367	35.5	0	-0.1
V2729	360983	4681019	37.5	V2729	360983	4681019	37.5	0	0
V2732	360759	4677845	39.3	V2732	360759	4677845	38.9	0	-0.4
V2733	362145	4678256	37.0	V2733	362145	4678256	36.9	0	-0.1
V2734	360907	4677482	39.6	V2734	360907	4677482	39.5	0	-0.1
V2735	363070	4681301	36.2	V2735	363070	4681301	36.2	0	0
V2736	360942	4678853	38.6	V2736	360942	4678853	38.6	0	0
V2738	362182	4678896	38.2	V2738	362182	4678896	38.2	0	0
V2742	362311	4679048	37.9	V2742	362311	4679048	37.9	0	0
V2743	360878	4677973	38.6	V2743	360878	4677973	38.2	0	-0.4
V2744	362411	4680343	39.1	V2744	362411	4680343	39.1	0	0
V2745	362255	4678065	37.2	V2745	362255	4678065	37.1	0	-0.1
V2746	362391	4678326	36.9	V2746	362391	4678326	36.8	0	-0.1
V2747	363514	4678352	39.6	V2747	363514	4678352	39.2	0	-0.4
V2748	363567	4681271	35.9	V2748	363567	4681271	35.8	0	-0.1

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ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
V2749	363711	4680313	39.2	V2749	363711	4680313	39.1	0	-0.1
V2751	363535	4677819	40.0	V2751	363535	4677819	39.3	0	-0.7
V2752	362232	4677730	38.1	V2752	362232	4677730	38.0	0	-0.1
V2754	363194	4678373	38.4	V2754	363194	4678373	38.1	0	-0.3
V2755	362390	4678783	37.4	V2755	362390	4678783	37.3	0	-0.1
V2756	362280	4678613	37.2	V2756	362280	4678613	37.1	0	-0.1
V2757	361097	4681003	38.4	V2757	361097	4681003	38.4	0	0
V2758	363841	4680774	38.0	V2758	363841	4680774	37.9	0	-0.1
V2759	365008	4679349	38.8	V2759	365008	4679349	38.4	0	-0.4
V2760	364993	4679056	38.6	V2760	364993	4679056	38.4	0	-0.2
V2761	364974	4678877	38.7	V2761	364974	4678877	38.5	0	-0.2
V2762	364936	4678355	39.1	V2762	364936	4678355	38.9	0	-0.2
V2763	361043	4680176	39.7	V2763	361043	4680176	39.7	0	0
V2764	362256	4679832	38.8	V2764	362256	4679832	38.8	0	0
V2769	361058	4680381	39.6	V2769	361058	4680381	39.6	0	0
V2770	370971	4679320	36.8	V2770	370971	4679320	37.1	0	0.3
V2771	367929	4680069	37.1	V2771	367929	4680069	37.6	0	0.5
V2772	368274	4678877	38.8	V2772	368274	4678877	39.4	0	0.6
V2773	371419	4680637	36.0	V2773	371419	4680637	36.0	0	0
V2774	368245	4678333	38.0	V2774	368245	4678333	38.3	0	0.3
V2775	367779	4677831	37.4	V2775	367779	4677831	37.5	0	0.1
V2776	368385	4680732	35.5	V2776	368385	4680732	35.7	0	0.2
V2777	370144	4680740	39.2	V2777	370144	4680740	39.2	0	0
V2778	370025	4679497	38.9	V2778	370025	4679497	39.1	0	0.2
V2779	370514	4678064	36.9	V2779	370514	4678064	37.2	0	0.3
V2780	370962	4678032	35.9	V2780	370962	4678032	36.1	0	0.2
V2781	369961	4678104	38.2	V2781	369961	4678104	38.4	0	0.2
V2783	370296	4678080	37.4	V2783	370296	4678080	37.6	0	0.2
V2784	371644	4680623	35.5	V2784	371644	4680623	35.6	0	0.1
V2785	371024	4680648	37.5	V2785	371024	4680648	37.6	0	0.1
V2786	369611	4678129	39.1	V2786	369611	4678129	39.4	0	0.3
V2787	371255	4679408	35.4	V2787	371255	4679408	35.6	0	0.2
V2788	369345	4678032	39.8	V2788	369345	4678032	40.0	0	0.2
V2789	368321	4677722	37.3	V2789	368321	4677722	37.4	0	0.1
V2790	370138	4679374	38.8	V2790	370138	4679374	39.1	0	0.3
V2792	369503	4679417	39.0	V2792	369503	4679417	39.4	0	0.4

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V2802	370950	4679430	36.8	V2802	370950	4679430	37.1	0	0.3
V2806	368506	4680696	35.3	V2806	368506	4680696	35.5	0	0.2
V2807	368641	4680939	35.2	V2807	368641	4680939	35.4	0	0.2
V2809	365118	4679302	38.6	V2809	365118	4679302	38.1	0	-0.5
V2810	366512	4679480	39.4	V2810	366512	4679480	39.7	0	0.3
V2811	366574	4680399	38.0	V2811	366574	4680399	38.1	0	0.1
V2812	366601	4680810	37.8	V2812	366601	4680810	37.9	0	0.1
V2813	367745	4679102	37.9	V2813	367745	4679102	38.4	0	0.5
V2814	367642	4678817	38.8	V2814	367642	4678817	39.1	0	0.3
V2817	367410	4680993	39.2	V2817	367410	4680993	39.5	0	0.3
V2818	365014	4677676	39.8	V2818	365014	4677676	39.6	0	-0.2
V2819	366365	4677166	38.9	V2819	366365	4677166	38.9	0	0
V2820	366390	4677654	38.8	V2820	366390	4677654	38.8	0	0
V2823	367671	4677869	37.9	V2823	367671	4677869	38.0	0	0.1
V2824	367594	4677472	37.3	V2824	367594	4677472	37.4	0	0.1
V2826	365786	4681324	36.8	V2826	365786	4681324	36.7	0	-0.1
V2827	366489	4680802	37.6	V2827	366489	4680802	37.5	0	-0.1
V2829	366409	4677936	38.7	V2829	366409	4677936	38.7	0	0
V2830	365084	4678750	38.4	V2830	365084	4678750	38.2	0	-0.2
V2834	370713	4680807	38.7	V2834	370713	4680807	38.7	0	0
V2835	371208	4679301	35.6	V2835	371208	4679301	35.9	0	0.3
V2836	366377	4679072	38.9	V2836	366377	4679072	39.0	0	0.1
V2838	366458	4680343	37.9	V2838	366458	4680343	37.7	0	-0.2
V2873	358707	4677248	36.7	V2873	358707	4677248	36.7	0	0
V2874	358973	4677377	37.7	V2874	358973	4677377	37.8	0	0.1
V2879	364850	4676817	38.8	V2879	364850	4676817	38.7	0	-0.1
V2880	364760	4676671	38.4	V2880	364760	4676671	38.4	0	0
V2881	364725	4676368	37.3	V2881	364725	4676368	37.2	0	-0.1
V2883	365800	4681476	37.3	V2883	365800	4681476	37.2	0	-0.1
V2889	369814	4680875	36.8	V2889	369814	4680875	36.8	0	0
V2892	371395	4680767	36.3	V2892	371395	4680767	36.4	0	0.1
V2899	369475	4680901	35.6	V2899	369475	4680901	35.7	0	0.1
V2901	369182	4680923	35.0	V2901	369182	4680923	35.2	0	0.2
V2918	365218	4680700	37.4	V2918	365218	4680700	36.9	0	-0.5
V2919	365228	4680803	37.1	V2919	365228	4680803	36.7	0	-0.4
V2923	366284	4675928	39.1	V2923	366284	4675928	39.1	0	0

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V2926	366275	4675818	39.5	V2926	366275	4675818	39.5	0	0
V2933	365236	4675865	36.0	V2933	365236	4675865	36.0	0	0
V2934	364860	4675887	36.0	V2934	364860	4675887	35.9	0	-0.1
V2935	364507	4675913	36.6	V2935	364507	4675913	36.6	0	0
V2943	365107	4675987	36.1	V2943	365107	4675987	36.0	0	-0.1
V2944	363927	4676060	39.3	V2944	363927	4676060	39.2	0	-0.1
V2946	364810	4676051	36.3	V2946	364810	4676051	36.3	0	0
V2970	358013	4676582	34.1	V2970	358013	4676582	34.1	0	0
V2972	357891	4676587	33.9	V2972	357891	4676587	33.8	0	-0.1
V2973	358260	4676659	34.9	V2973	358260	4676659	34.9	0	0
V2974	358265	4676699	35.0	V2974	358265	4676699	35.0	0	0
V2975	358329	4676669	35.2	V2975	358329	4676669	35.2	0	0
V3010	358463	4676948	35.9	V3010	358463	4676948	35.9	0	0
V3011	358433	4676951	35.8	V3011	358433	4676951	35.8	0	0
V3012	358400	4676952	35.7	V3012	358400	4676952	35.7	0	0
V3013	358369	4676955	35.6	V3013	358369	4676955	35.6	0	0
V3014	358338	4676959	35.5	V3014	358338	4676959	35.5	0	0
V3015	358332	4676898	35.4	V3015	358332	4676898	35.4	0	0
V3016	358363	4676898	35.5	V3016	358363	4676898	35.5	0	0
V3017	358394	4676892	35.6	V3017	358394	4676892	35.6	0	0
V3018	358424	4676892	35.7	V3018	358424	4676892	35.7	0	0
V3019	358454	4676889	35.9	V3019	358454	4676889	35.9	0	0
V3020	358266	4676962	35.3	V3020	358266	4676962	35.3	0	0
V3021	358261	4676919	35.3	V3021	358261	4676919	35.3	0	0
V3024	356613	4676658	31.9	V3024	356613	4676658	31.9	0	0
V3025	356566	4677316	34.6	V3025	356566	4677316	34.6	0	0
V3027	355260	4677172	31.8	V3027	355260	4677172	31.8	0	0
V3042	355193	4677768	34.8	V3042	355193	4677768	34.8	0	0
V3043	353314	4678349	32.4	V3043	353314	4678349	32.4	0	0
V3044	353694	4678325	34.1	V3044	353694	4678325	34.1	0	0
V3045	354038	4677780	32.1	V3045	354038	4677780	32.1	0	0
V3046	355214	4678075	36.9	V3046	355214	4678075	36.9	0	0
V3047	354515	4678274	36.0	V3047	354515	4678274	36.0	0	0
V3048	355338	4678122	38.1	V3048	355338	4678122	38.1	0	0
V3049	356526	4678148	38.0	V3049	356526	4678148	38.0	0	0
V3050	356608	4678377	38.0	V3050	356608	4678377	38.0	0	0

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V3051	356627	4678660	37.7	V3051	356627	4678660	37.7	0	0
V3052	356657	4679106	36.6	V3052	356657	4679106	36.6	0	0
V3053	355383	4678789	39.9	V3053	355383	4678789	39.9	0	0
V3054	355282	4679063	39.3	V3054	355282	4679063	39.3	0	0
V3056	353874	4678754	38.2	V3056	353874	4678754	38.2	0	0
V3057	352701	4679871	31.5	V3057	352701	4679871	31.5	0	0
V3058	358315	4677827	37.1	V3058	358315	4677827	37.1	0	0
V3061	358519	4677819	36.4	V3061	358519	4677819	36.4	0	0
V3062	358219	4677580	37.0	V3062	358219	4677580	37.0	0	0
V3063	356775	4679077	36.3	V3063	356775	4679077	36.3	0	0
V3064	358206	4678795	35.4	V3064	358206	4678795	35.4	0	0
V3065	358268	4678614	35.8	V3065	358268	4678614	35.8	0	0
V3066	358277	4678523	36.1	V3066	358277	4678523	36.1	0	0
V3067	358310	4678433	36.3	V3067	358310	4678433	36.3	0	0
V3068	358404	4678431	36.0	V3068	358404	4678431	36.0	0	0
V3069	358316	4678164	37.0	V3069	358316	4678164	37.0	0	0
V3070	358293	4678240	36.9	V3070	358293	4678240	36.9	0	0
V3072	358398	4678788	35.4	V3072	358398	4678788	35.4	0	0
V3073	358043	4679307	35.2	V3073	358043	4679307	35.2	0	0
V3074	358045	4679218	35.1	V3074	358045	4679218	35.1	0	0
V3075	358114	4679613	35.6	V3075	358114	4679613	35.6	0	0
V3076	358104	4679447	35.3	V3076	358104	4679447	35.3	0	0
V3077	358056	4679504	35.5	V3077	358056	4679504	35.5	0	0
V3078	358040	4679920	36.7	V3078	358040	4679920	36.7	0	0
V3079	358158	4680384	37.3	V3079	358158	4680384	37.3	0	0
V3080	358141	4680274	37.1	V3080	358141	4680274	37.1	0	0
V3090	364815	4676458	37.4	V3090	364815	4676458	37.4	0	0
V3091	360897	4678162	38.3	V3091	360897	4678162	37.8	0	-0.5
V3101	357953	4677218	36.2	V3101	357953	4677218	36.2	0	0
V3102	358423	4679117	35.1	V3102	358423	4679117	35.1	0	0
V3103	358563	4679352	35.4	V3103	358563	4679352	35.4	0	0
V3104	358462	4679665	35.4	V3104	358462	4679665	35.4	0	0
V3105	358428	4679779	35.5	V3105	358428	4679779	35.5	0	0
V3106	357948	4679569	35.9	V3106	357948	4679569	35.9	0	0
V3108	358620	4680478	35.9	V3108	358620	4680478	35.9	0	0
V3109	358368	4680469	36.5	V3109	358368	4680469	36.4	0	-0.1

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V3110	358191	4680594	37.5	V3110	358191	4680594	37.5	0	0
V3112	358271	4681075	37.4	V3112	358271	4681075	37.4	0	0
V3114	358364	4681426	36.4	V3114	358364	4681426	36.4	0	0
V3115	358140	4681625	36.7	V3115	358140	4681625	36.7	0	0
V3116	358260	4681767	35.4	V3116	358260	4681767	35.4	0	0
V3117	358691	4681832	35.1	V3117	358691	4681832	35.1	0	0
V3118	358694	4681868	34.9	V3118	358694	4681868	34.9	0	0
V3120	358303	4682391	32.1	V3120	358303	4682391	32.1	0	0
V3196	356895	4682642	30.6	V3196	356895	4682642	30.6	0	0
V3203	356973	4681951	35.1	V3203	356973	4681951	35.1	0	0
V3204	356833	4681731	35.9	V3204	356833	4681731	35.9	0	0
V3205	356775	4680875	38.4	V3205	356775	4680875	38.4	0	0
V3206	355488	4680356	38.3	V3206	355488	4680356	38.3	0	0
V3207	356708	4679869	37.9	V3207	356708	4679869	37.9	0	0
V3208	356689	4679583	36.9	V3208	356689	4679583	36.9	0	0
V3211	354155	4681232	33.9	V3211	354155	4681232	33.9	0	0
V3212	354132	4680883	36.6	V3212	354132	4680883	36.6	0	0
V3213	354118	4680671	38.5	V3213	354118	4680671	38.5	0	0
V3214	355388	4680651	37.2	V3214	355388	4680651	37.2	0	0
V3216	355300	4679343	39.5	V3216	355300	4679343	39.5	0	0
V3217	355266	4678833	39.3	V3217	355266	4678833	39.3	0	0
V3239	354051	4681491	32.1	V3239	354051	4681491	32.1	0	0
V3286	352693	4679235	31.3	V3286	352693	4679235	31.3	0	0
V3289	353095	4679250	34.0	V3289	353095	4679250	34.0	0	0
V3290	353078	4679114	33.7	V3290	353078	4679114	33.7	0	0
V3296	353864	4678331	34.8	V3296	353864	4678331	34.8	0	0
V3297	353553	4678350	33.6	V3297	353553	4678350	33.6	0	0
V3302	354095	4680524	39.7	V3302	354095	4680524	39.7	0	0
V3306	356609	4677852	37.0	V3306	356609	4677852	37.0	0	0
V3307	355584	4681454	33.0	V3307	355584	4681454	33.0	0	0
V3339	358279	4681503	36.5	V3339	358279	4681503	36.5	0	0
V3340	358265	4680947	37.5	V3340	358265	4680947	37.5	0	0
V3341	358261	4680919	37.5	V3341	358261	4680919	37.5	0	0
V3342	358550	4680606	36.1	V3342	358550	4680606	36.1	0	0
V3343	358368	4680879	36.9	V3343	358368	4680879	36.9	0	0
V3344	358368	4680853	36.9	V3344	358368	4680853	36.9	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dB)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
V3345	358363	4680823	36.9	V3345	358363	4680823	36.9	0	0
V3346	358320	4680720	37.0	V3346	358320	4680720	37.0	0	0
V3347	358254	4680110	36.3	V3347	358254	4680110	36.3	0	0
V3348	358578	4679763	35.7	V3348	358578	4679763	35.7	0	0
V3351	358527	4679482	35.4	V3351	358527	4679482	35.4	0	0
V3358	358086	4677359	36.6	V3358	358086	4677359	36.6	0	0
V3359	358009	4677093	35.5	V3359	358009	4677093	35.5	0	0
V3363	360698	4676632	39.4	V3363	360698	4676632	39.4	0	0
V3379	369399	4679430	39.0	V3379	369399	4679430	39.4	0	0.4
V3385	361173	4682000	32.4	V3385	361173	4682000	32.3	0	-0.1

Participant comparison table

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dBA)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
R714	370572	4680730	39.5	R714	370572	4680730	39.5	0	0
R1001	356686	4680282	38.6	R1001	356686	4680282	38.6	0	0
R1119	361067	4680601	38.5	R1119	361067	4680601	38.5	0	0
R1142	360854	4678835	37.7	R1142	360854	4678835	37.7	0	0
R1157	360734	4677611	39.1	R1157	360734	4677611	39.1	0	0
R1161	363684	4679681	40.4	R1161	363684	4679681	40.4	0	0
R1162	363696	4679649	41.5	R1162	363696	4679649	41.5	0	0
R1169	366510	4679806	39.2	R1169	366510	4679806	39.2	0	0
R1175	366455	4678914	39.0	R1175	366455	4678914	39.0	0	0
R1177	366422	4678445	37.8	R1177	366422	4678445	37.8	0	0
R1472	365057	4679790	38.0	R1472	365057	4679790	38.0	0	0
R1488	364982	4678679	37.6	R1488	364982	4678679	37.6	0	0
R1500	365001	4677951	39.5	R1500	365001	4677951	39.5	0	0
R1503	364942	4677837	40.0	R1503	364942	4677837	40.0	0	0
R1504	364932	4677723	39.7	R1504	364932	4677723	39.7	0	0
R1507	364989	4677288	39.8	R1507	364989	4677288	39.8	0	0
R1508	364906	4677330	39.9	R1508	364906	4677330	39.9	0	0
R2301	355369	4680130	37.9	R2301	355369	4680130	37.9	0	0
R2314	355353	4678433	39.0	R2314	355353	4678433	39.0	0	0
R2510	366479	4679056	39.2	R2510	366479	4679056	39.4	0	0.2
V2721	360898	4679858	40.0	V2721	360898	4679858	40.0	0	0
V2722	360911	4680039	39.8	V2722	360911	4680039	39.8	0	0
V2731	360762	4677954	39.1	V2731	360762	4677954	39.1	0	0
V2737	362434	4680662	39.1	V2737	362434	4680662	39.1	0	0
V2740	365112	4680769	37.9	V2740	365112	4680769	37.9	0	0
V2753	362333	4679352	38.1	V2753	362333	4679352	38.1	0	0
V2765	361013	4679804	39.8	V2765	361013	4679804	39.8	0	0
V2766	362206	4679150	38.6	V2766	362206	4679150	38.6	0	0
V2768	362308	4680494	39.7	V2768	362308	4680494	39.7	0	0
V2782	370601	4679355	38.4	V2782	370601	4679355	38.4	0	0
V2791	369720	4679403	39.0	V2791	369720	4679403	39.0	0	0
V2793	369215	4679437	39.2	V2793	369215	4679437	39.2	0	0
V2794	368713	4679470	39.0	V2794	368713	4679470	39.0	0	0
V2815	367820	4680258	38.0	V2815	367820	4680258	38.0	0	0

Issue F, October 22, 2015				Issue G, November 10, 2015				Coordinate change (m)	Change in level (dBA)
ID	Easting (m)	Northing (m)	Level (dBA)	ID	Easting (m)	Northing (m)	Level (dBA)		
V2816	366426	4679853	39.1	V2816	366426	4679853	39.1	0	0
V2822	367713	4678496	38.8	V2822	367713	4678496	38.8	0	0
V2825	366396	4679396	39.4	V2825	366396	4679396	39.4	0	0
V2831	365000	4677422	39.9	V2831	365000	4677422	39.9	0	0
V3055	354019	4679113	43.6	V3055	354019	4679113	43.6	0	0
V3059	358320	4677730	36.9	V3059	358320	4677730	36.9	0	0
V3071	358303	4678041	37.3	V3071	358303	4678041	37.3	0	0
V3107	358111	4680111	36.9	V3107	358111	4680111	36.9	0	0
V3111	358228	4680803	37.6	V3111	358228	4680803	37.6	0	0
V3113	358265	4681231	37.3	V3113	358265	4681231	37.3	0	0
V3215	355344	4680002	39.5	V3215	355344	4680002	39.5	0	0
V3230	354037	4679429	49.4	V3230	354037	4679429	49.4	0	0

Appendix C – Natural Heritage Assessment Addendum and Ministry of Natural Resources and Forestry Confirmation

Van der Woerd, Mark

To: Charlotte Moore; Beatrice Ashby; Jody Law
Cc: Rose, Marc; Grieve, Becky; Andrew Ryckman
Subject: RE: RE: Belle River WP; NHA Addendum [revised]

-------- Forwarded Message --------
Subject:RE: Belle River WP; NHA Addendum [revised]
Date: Thu, 19 Nov 2015 15:23:42 +0000
From: Beal, Jim (MNRF) <jim.beal@ontario.ca>
To: Andrew Ryckman <aryckman@nrsi.on.ca>
CC:'Charlotte Moore' <cmoore@nrsi.on.ca>, Gaweda, Joanna (MNRF) <joanna.gaweda@ontario.ca>

Hi Andrew

Based on the documentation you provided to us dated November 18 2015, which states:

- New locations of project components will not be any closer to natural features than previously approved
- New locations of project components will not be any closer to any new features
- And therefore, the new location of project components will not require any change to existing mitigation

You do not require an amendment to MNRF's letter of confirmation of your NHA submission.

If you have any questions please call.

Thanks

JB
705-755-1362

From: Andrew Ryckman [mailto:aryckman@nrsi.on.ca]
Sent: November-19-15 12:51 PM
To: Gaweda, Joanna (MNRF)
Cc: Beal, Jim (MNRF); 'Charlotte Moore'
Subject: Re: Belle River WP; NHA Addendum [revised]

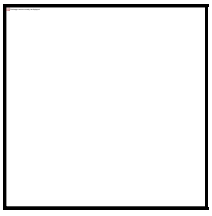
Good Afternoon Joanna,

I'm just following-up to see if you have any updates on timing for receiving a response. I understand that MTCS sign-off was received today, so we're just waiting for this confirmation before AECOM can go back to the MOECC.

Thanks!
Andrew

On 11/18/2015 2:55 PM, Andrew Ryckman wrote:

> Good Afternoon Joanna,
>
> Thanks for your quick review of this file for us!
>
> As per your discussions and comments to Charlotte, I'm please to provide you with the attached version of the Belle River Wind Project NHA Addendum for your review. For your convenience and ease of review, I have included a tracked change version so that you can see the edits that have been made. I have also included a final PDF for your files, hopeful that we have adequately addressed your comments.
>
> If you have any additional comments or we missed something, can you give me a call at the office (519-725-2227) so that we're on the same page.
>
> Otherwise, I look forward to hearing confirmation that no change to the confirmation is required, presuming that is the result.
>
> Thanks!
> Andrew
> --



NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Memo

Project No. 1490

To: **Joanna Gaweda**

From: **Charlotte Moore**

Date: **November 18, 2015**

Re: **Belle River Wind Project**
Natural Heritage Assessment Addendum

The Belle River Wind Project (the "Project") is a proposed wind energy generating facility, of up to 46 permitted wind turbines totaling 100MW, located within the Town of Lakeshore in the County of Essex, Ontario. The Project is being developed by Belle River Wind, a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada, ULC (Pattern Development) and Samsung Renewable Energy, Inc. (Samsung Renewable Energy).

Natural Resource Solutions Inc. (NRSI) was retained in April 2014 to conduct a natural environment resource assessment in accordance with the Renewable Energy Approval (REA) Regulation. This assessment included a records review, site investigation, evaluation of significance, and impact assessment of any potentially significant natural features or wildlife habitats at the Project.

The approximate boundaries of the project area are County Road 42 and the Canadian Pacific Railway to the north, Highway 401 and South Middle Road to the south, Comber Sideroad to the east, and Lakeshore Road 111 to the west. The Belle River Wind Project is proposed to consist of up to 41 Siemens SWT-3.2-113 or similar operational wind turbines, as well as supporting infrastructure.

As identified in the REA Regulation, the proposed layout of these project components is collectively referred to as the „project location". For the purposes of this report, NRSI will refer to the areas within 120m of the project location as the „project area".

The records review, site investigation, evaluation of significance, and environmental impact study (EIS) for the Belle River Wind Project were completed by NRSI as part of the Natural Heritage Assessment (NHA). The Belle River Wind Project NHA (NRSI 2015) confirmation was granted on May 27, 2015, with an updated confirmation issued on May 29, 2015 by the Ministry of Natural Resources and Forestry's (MNRF) Peterborough District Office. As part of this confirmation, a commitment was identified for the proponent to inform the MNRF of any changes made to the project that would

alter the NHA. The final letter of confirmation relating to the NHA is provided in Appendix I of this memo.

This document identifies and discusses Belle River Wind Project facility layout changes that have been proposed since receiving the NHA confirmation from the MNRF (May 2015). The project layout including these changes, in comparison to the project layout provided in the NHA, is addressed in this report and shown on Maps 1-11.

Description of Proposed Project Changes

The final MNRF letter of confirmation was received on May 29, 2015 for the Belle River Wind Project‟s NHA. Since that time, minor changes have been proposed to this project layout, which would result in minor adjustments to the NHA. The types of changes proposed for this facility, and addressed in this report, include:

- removal of three turbines and associated infrastructure,
- adjustments to the placement (< 20m) of six turbines within the existing Project Location,
- modified access roads and cabling routes to accommodate the adjustments in the placement of six wind turbines, and
- distances from project components to significant natural features and wildlife habitats (as appropriate).

The proposed changes to the Belle River Wind Project layout are outlined and discussed below in Table 1. Maps 1-11 provide a visual overlay of the differences between the NHA submission layout and the layout presented in this addendum, with the differences highlighted.

Table 1. Summary of Proposed Changes to the Belle River Wind Project Layout

Project Component	Location	Description/Rationale of Change	Changes in Distance to Significant Natural Features or Wildlife Habitats within 120m	New Candidate or Significant Natural Features/Wildlife Habitats within 120m
Turbines	T13	Turbine 13 has been removed from the project layout.	N/A	None
	T34	Turbine 34 has been removed from the project layout.	N/A	None
	T41	Turbine 41 has been removed from the project layout.	WOD-009, WET-015, AWO-004, MBB-001, EWP-004, PMI-002, CPR-002, UCF-004 and HHA-004 features are no longer within 120m of this project component	None

Project Component	Location	Description/Rationale of Change	Changes in Distance to Significant Natural Features or Wildlife Habitats within 120m	New Candidate or Significant Natural Features/Wildlife Habitats within 120m
	T15	Location of T15 has shifted 3m south.	The minor shift of the turbine location has resulted in no distance changes between the project location and significant natural features or wildlife habitats. No new natural features or wildlife habitats are included in the project area as a result of this change.	None
	T35	Location of T35 has shifted 7m west.	The minor shift in the turbine location has resulted in no distance changes between the project location and significant natural features or wildlife habitat. No new natural features or wildlife habitat are included in the project area as a result of this change.	None
	T49	Location of T49 has shifted 17m southeast.	The minor shift in the turbine location has resulted in no distance changes between the project location and significant natural features or wildlife habitat. No new natural features or wildlife habitat are included in the project area as a result of this change.	None
	T51	Location of T51 has shifted 7m south.	The minor shift in the turbine location has resulted in no distance changes between the project location and significant natural features or wildlife habitat. No new natural features or wildlife habitat are included in the project area as a result of this change.	None
	T57	Location of T57 has shifted 8m south.	The minor shift in the turbine location has resulted in no distance changes between the project location and significant natural features or wildlife habitat. No new natural features or wildlife habitat are included in the project area as a result of this change.	None

Project Component	Location	Description/Rationale of Change	Changes in Distance to Significant Natural Features or Wildlife Habitats within 120m	New Candidate or Significant Natural Features/Wildlife Habitats within 120m
	T206	Location of T206 has shifted 6m north.	The minor shift in the turbine location has resulted in no distance changes between the project location and significant natural features or wildlife habitats. No new natural features or wildlife habitats are included in the project area as a result of this change.	None

Assessment of Impacts to Natural Features and Wildlife Habitats

In accordance with the REA Regulation, NRSI biologists have completed a comprehensive records review, site investigation, evaluation of significance, and EIS of the Belle River Wind Project (NRSI 2015). Following the review of proposed changes to the Project layout (as discussed above), NRSI has re-considered all aspects of the NHA, including the records review, site investigation, evaluation of significance, and EIS, to determine if there are new natural features, changes in distances to Project Location, or new mitigation measures or monitoring commitments required to ensure that potential permanent or adverse environmental impacts are mitigated or studied appropriately.

The proposed changes to the Project layout, as described above, are minor, with no changes to the overall project area. NRSI has not identified any additional candidate or significant natural features or wildlife habitats within the Project Area. Two previously identified treated as significant wildlife habitats (AWO-004 and MBB-001) are no longer within 120m of any project components, as the result of the removal of T41. The potential impacts, proposed mitigation measures and monitoring commitments outlined in the Belle River Wind Project: Natural Heritage EIS Report (NRSI 2015) no longer apply to the two removed significant wildlife habitats. The distances from the Project Location to significant natural features and wildlife habitats have resulted in minor changes due to the proposed changes.

With the removal of T41, distances to natural features (WOD-009, WET-015, EWP-004, PMI-002, CPR-002, UCF-004 and HHA-004) are now all greater than 120m to any wind turbine, with no additional potential for impact to natural features or wildlife habitats. There are no changes in distances to natural features with the removal of turbines T13, T34. No natural features are overlapping, or within 120m of, any of the six turbines being shifted (T15, T35, T49, T51, T57 or T206). Similarly, no change in the Project Location of access roads and cabling is being proposed with these minor turbine shifts, and therefore no additional natural features or wildlife habitats are present within 120m of the Project Location.

It is maintained that with the implementation of the planned mitigation measures, monitoring programs, and contingency plans as presented in the Belle River Wind Project: Natural Heritage Environmental Impact Study Report (NRSI 2015), there is unlikely to be any significant impacts to natural heritage features, including woodlands, wetlands, or significant wildlife habitats.

Given that these proposed minor changes have negligible impacts on the content of the NHA, it is expected that the current confirmation letter remains relevant and adequate to cover these proposed changes to the Project layout. It is requested that MNRF provide a written response to confirm agreement with this approach.

References

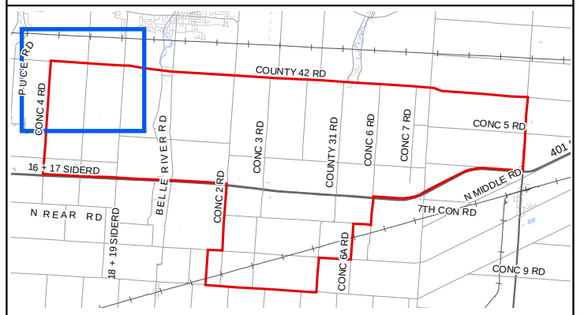
Natural Resource Solutions Inc. (NRSI). 2015. Belle River Wind Project Natural Heritage Assessment. May 2015.

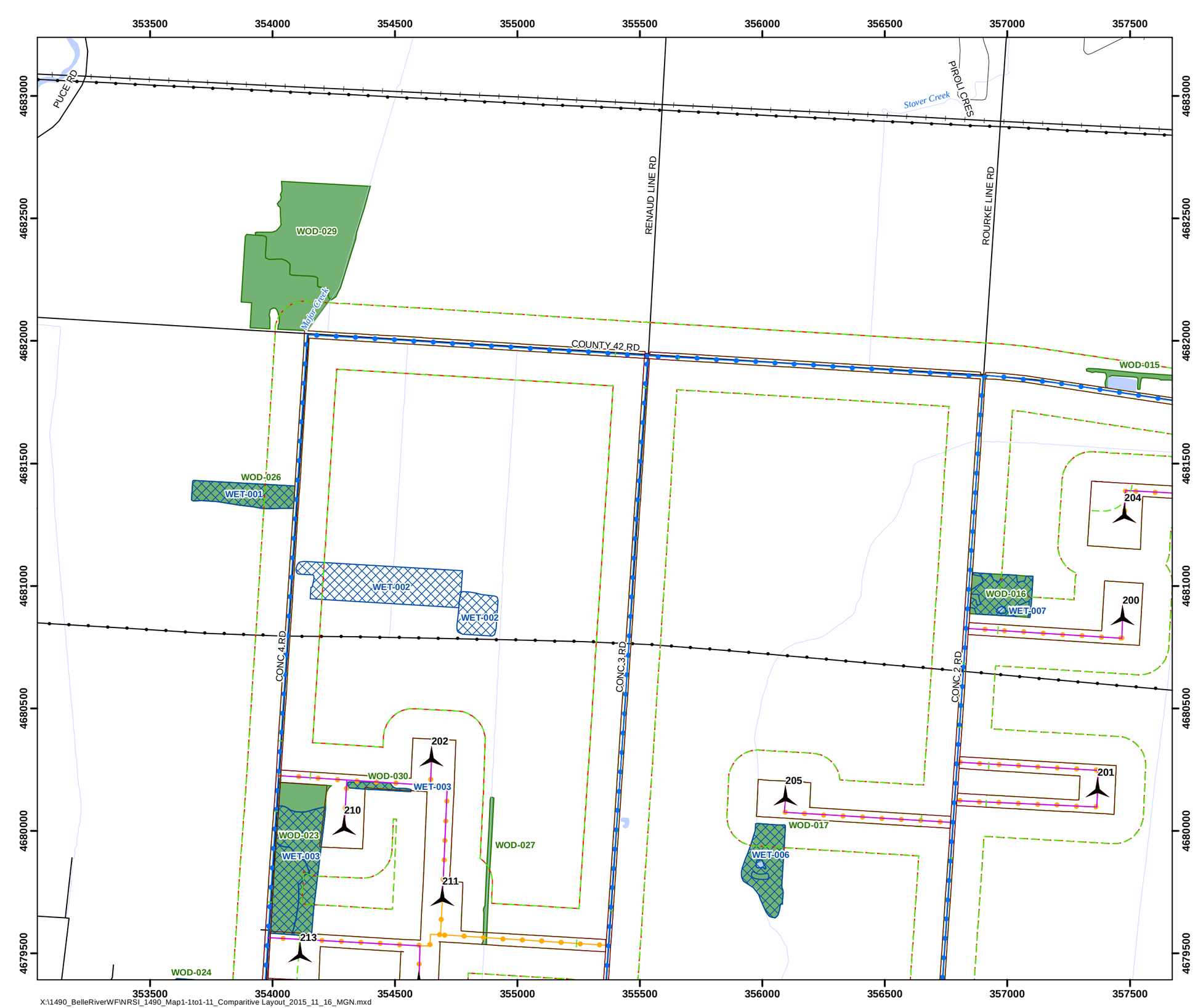
Maps

Map 1-1

Belle River Wind Project

Comparative Layout





Legend

- Proposed Turbine
- Previous Turbine Location
- New Project Area (120m Buffer)
- Previous Project Area (120m Buffer)
- Construction Disturbance
- Removed Construction Disturbance
- Proposed MET Tower
- Proposed Collection Line
- Proposed Collection ROW
- Proposed Transmission Line
- Proposed Access Road
- Potential POI Parcel
- Proposed Substation/Laydown/O&M
- Potential Laydown
- Existing Transmission Line
- Railway
- Highway
- Primary Road
- Secondary Road
- Permanent Watercourse
- Intermittent Watercourse
- Open Water
- Significant Wetland (WET)
- Significant Woodland (WOD)
- Significant Wildlife Habitat

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Project: P1490 Date: November 16, 2015	NAD83 - UTM Zone 17 Size: 11x17" **1:15,000**

0 200 400 600 800 Meters

N

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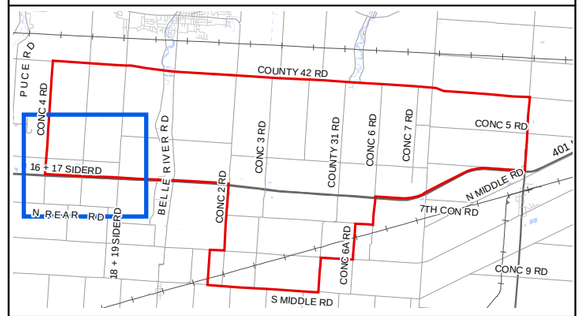
Map 1-2

Belle River Wind Project

Comparative Layout



Legend

- Proposed Turbine
- Previous Turbine Location
- New Project Area (120m Buffer)
- Previous Project Area (120m Buffer)
- Construction Disturbance
- Removed Construction Disturbance
- Proposed MET Tower
- Proposed Collection Line
- Proposed Collection ROW
- Proposed Transmission Line
- Proposed Access Road
- Potential POI Parcel
- Proposed Substation/Laydown/O&M
- Potential Laydown
- Existing Transmission Line
- Railway
- Highway
- Primary Road
- Secondary Road
- Permanent Watercourse
- Intermittent Watercourse
- Open Water
- Significant Wetland (WET)
- Significant Woodland (WOD)
- Significant Wildlife Habitat

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Project: P1490
Date: November 16, 2015

NAD83 - UTM Zone 17
Size: 11x17"
1:15,000

0 200 400 600 800 Meters

N

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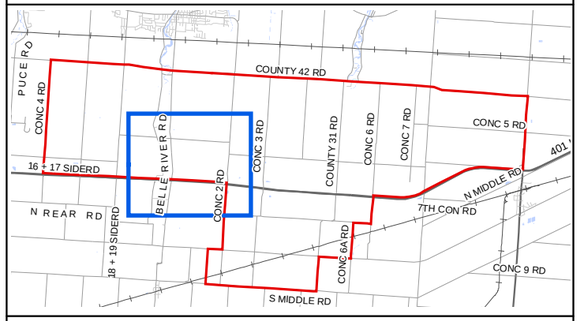
Map 1-3

Belle River Wind Project

Comparative Layout



Legend

- Proposed Turbine
- Previous Turbine Location
- New Project Area (120m Buffer)
- Previous Project Area (120m Buffer)
- Construction Disturbance
- Removed Construction Disturbance
- Proposed MET Tower
- Proposed Collection Line
- Proposed Collection ROW
- Proposed Transmission Line
- Proposed Access Road
- Potential POI Parcel
- Proposed Substation/Laydown/O&M
- Potential Laydown
- Existing Transmission Line
- Railway
- Highway
- Primary Road
- Secondary Road
- Permanent Watercourse
- Intermittent Watercourse
- Open Water
- Significant Wetland (WET)
- Significant Woodland (WOD)
- Significant Wildlife Habitat

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Project: P1490 Date: November 16, 2015	NAD83 - UTM Zone 17 Size: 11x17" **1:15,000**

0 200 400 600 800 Meters

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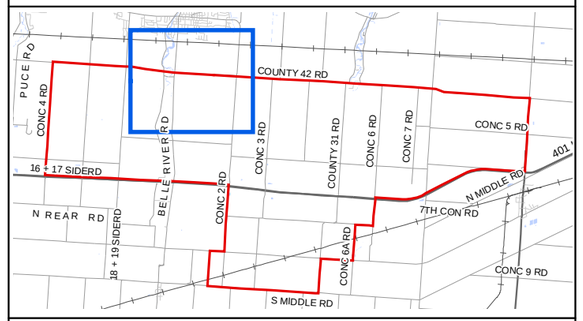
Map 1-4

Belle River Wind Project

Comparative Layout



Legend

- Proposed Turbine
- Previous Turbine Location
- New Project Area (120m Buffer)
- Previous Project Area (120m Buffer)
- Construction Disturbance
- Removed Construction Disturbance
- Proposed MET Tower
- Proposed Collection Line
- Proposed Collection ROW
- Proposed Transmission Line
- Proposed Access Road
- Potential POI Parcel
- Proposed Substation/Laydown/O&M
- Potential Laydown
- Existing Transmission Line
- Railway
- Highway
- Primary Road
- Secondary Road
- Permanent Watercourse
- Intermittent Watercourse
- Open Water
- Significant Wetland (WET)
- Significant Woodland (WOD)
- Significant Wildlife Habitat

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Project: P1490
Date: November 16, 2015

NAD83 - UTM Zone 17
Size: 11x17"
1:15,000

0 200 400 600 800 Meters

N

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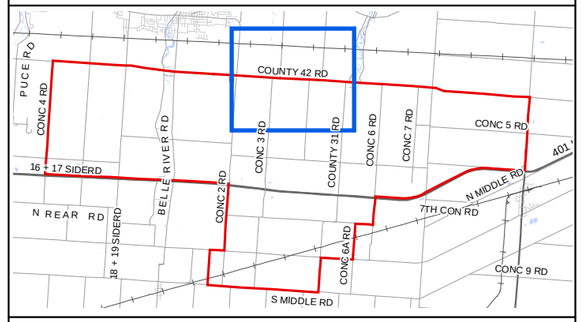
Map 1-5

Belle River Wind Project

Comparative Layout



Legend

- Proposed Turbine
- Previous Turbine Location
- New Project Area (120m Buffer)
- Previous Project Area (120m Buffer)
- Construction Disturbance
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- Potential POI Parcel
- Proposed Substation/Laydown/O&M
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- Existing Transmission Line
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- Highway
- Primary Road
- Secondary Road
- Permanent Watercourse
- Intermittent Watercourse
- Open Water
- Significant Wetland (WET)
- Significant Woodland (WOD)
- Significant Wildlife Habitat

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Project: P1490 Date: November 16, 2015	NAD83 - UTM Zone 17 Size: 11x17" **1:15,000**

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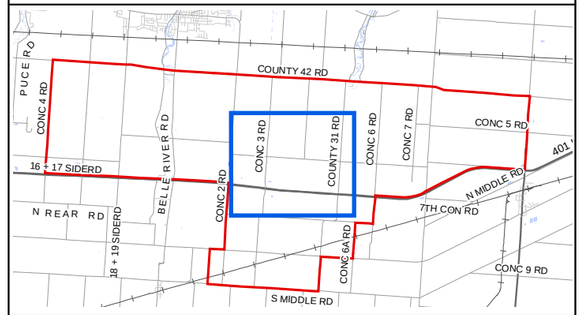
Map 1-6

Belle River Wind Project

Comparative Layout



Legend

- Proposed Turbine
- Previous Turbine Location
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- Construction Disturbance
- Removed Construction Disturbance
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NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Project: P1490
Date: November 16, 2015

NAD83 - UTM Zone 17
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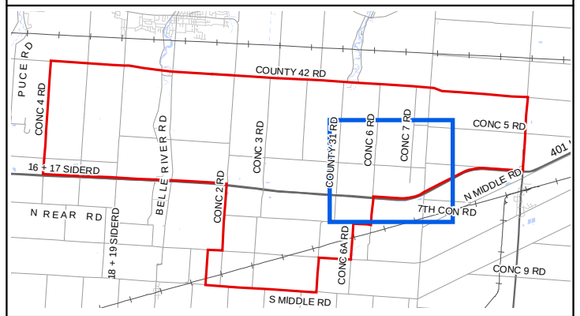
Map 1-7

Belle River Wind Project

Comparative Layout



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- Construction Disturbance
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NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Project: P1490
Date: November 16, 2015

NAD83 - UTM Zone 17
Size: 11x17"
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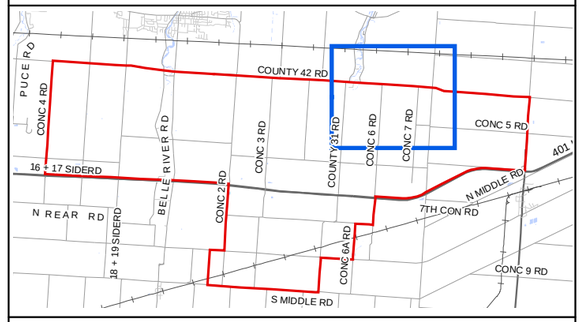
Map 1-8

Belle River Wind Project

Comparative Layout



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Legend

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NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Project: P1490 Date: November 16, 2015	NAD83 - UTM Zone 17 Size: 11x17" **1:15,000**

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CONC 6 RD

401 HWY

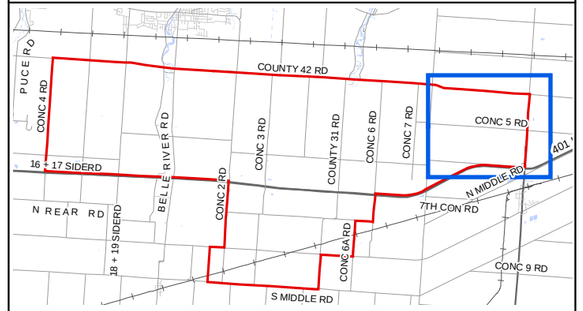
N MIDDLE RD

52 49 59 58 57 48

Map 1-9

Belle River Wind Project

Comparative Layout



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NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Project: P1490
Date: November 16, 2015

NAD83 - UTM Zone 17
Size: 11x17"
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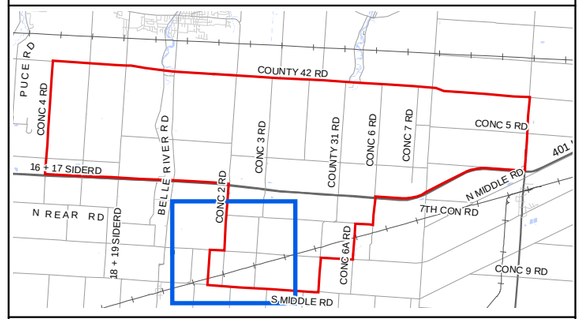
Map 1-10

Belle River Wind Project

Comparative Layout



Legend

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- Previous Turbine Location
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NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Project: P1490
Date: November 16, 2015

NAD83 - UTM Zone 17
Size: 11x17"
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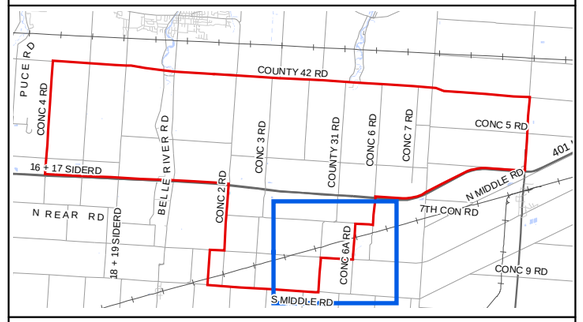
Map 1-11

Belle River Wind Project

Comparative Layout



Legend

- Proposed Turbine
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NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Project: P1490
Date: November 16, 2015

NAD83 - UTM Zone 17
Size: 11x17"
1:15,000

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Appendix I
Final NHA Confirmation Letter

Ministry of Natural Resources and Forestry

Regional Resources Section
Southern Region
Regional Operations Division
300 Water Street
Peterborough, ON K9J 3C7
Tel: 705-755-1328
Fax: 705-755-3233

Ministère des Richesses naturelles et des Forêts

Ressources régionales article
Région du Sud
Division des opérations régionales
300, rue Water
Peterborough (ON) K9J 3C7
Tél: 705-755-1328
Téléc: 705-755-3233

Ontario

May 29, 2015

Mr. Colin Edwards, Director,
Mr. Lee Jeong Tack, Director
SP Belle River Wind LP by its general partner,
SP Belle River Wind GP Inc.
2050 Derry Road West
Mississauga, ON L5N 0B9

RE: NHA Confirmation for the Belle River Wind Project

Dear Mr. Edwards, Mr. Lee Jeong Tack:

In accordance with the Ministry of the Environment's (MOE's) Renewable Energy Approvals (REA) Regulation (O.Reg.359/09), the Ministry of Natural Resources and Forestry (MNRF) has reviewed the Records Review, Site Investigation, Evaluation of Significance and Environmental Impact Study dated May 25, 2015 for Belle River Wind Project in Lakeshore Township, Essex County, submitted by Natural Resource Solutions Inc on May 26, 2015.

In accordance with Section 28(2) and 38(2)(b) of the REA regulation, MNRF provides the following confirmations following review of the natural heritage assessment:

1. The MNRF confirms that the determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established or accepted by MNRF.

2. The MNRF confirms that the site investigation and records review were conducted using applicable evaluation criteria or procedures established or accepted by MNRF, if no natural features were identified.

3. The MNRF confirms that the evaluation of the significance or provincial significance of the natural features was conducted using applicable evaluation criteria or procedures established or accepted by MNRF.

4. The MNRF confirms that the project location is not in a provincial park or conservation reserve.

5. The MNRF confirms that the environmental impact study report has been prepared in accordance with procedures established by the MNRF.

In accordance with Section 28(3)(c) and 38(2)(c), MNRF also offers the following comments in respect of the project.

Pre-construction Monitoring

In accordance with Appendix D of MNRF's NHA Guide, a commitment has been made to complete pre-construction assessment(s) of habitat use for the candidate significant wildlife habitats listed in Table 1 (enclosed).

MNRF has reviewed and confirmed the assessment methods and the range of mitigative options. Pending completion of the assessments and determination of significance, the appropriate mitigation is expected to be implemented, as committed to in the environmental impact study.

Post-Construction Monitoring

In addition to the NHA, Environmental Effects Monitoring Plans (EEMP) that address post-construction mortality monitoring and mitigation for birds and bats must be prepared and implemented. Environmental Effects Monitoring Plans for birds and bats must be prepared in accordance with MNRF Guidelines and should be reviewed by MNRF in advance of submitting a REA application to MOE in order to minimize potential delays in determining if the application is complete. Comments provided by the MNRF with respect to the EEMP must be submitted as part of the application for a REA.

A commitment has been made in the Environmental Impact Study and will be included in the Environmental Effects Monitoring Plan, part of the Design and Operations Report, to conduct post-construction monitoring should the pre-construction monitoring (as outlined above) deem the wildlife habitat to be significant. For the Belle River Wind Project, this includes surveys outlined in Table 2 (enclosed).

A commitment has been made in the Environmental Impact Study and will be included in the Environmental Effects Monitoring Plan, part of the Design and Operations Report, to conduct post-construction monitoring. For the Belle River Wind Project, this includes;

1. Mortality Monitoring-Birds and Bats – entire project, 30%turbines, as described in EIS
2. Climbing Prairy Rose, CPR-002 (SCC-T)
3. Shumard Oak Habitat, SHU-001 (SCC-C), SHU-002 (SCC-P)
4. Upright Carrion Flower Habitat,UCF-004 (SCC-T)
5. Shellbark Hickory Habitat SHH-001 (SCC-P), SHH-002 (SCC-H), SHH-003 (SCC-K), SHH-004 (SCC-B), SHH-005 (SCC-G)
6. Pignut Hickory Habitat PGH-001 (SCC-L)

This confirmation letter is valid for the project as proposed in the natural heritage assessment and environmental impact study, including those sections describing the Environmental Effects Monitoring Plan and Construction Plan Report. Should any changes be made to the proposed project that would alter the NHA, MNRF may need to undertake additional review of the NHA.

Where specific commitments have been made by the applicant in the NHA/EIS with respect to project design, construction, rehabilitation, operation, mitigation, or monitoring, MNRF expects that

these commitments will be considered in MOE's Renewable Energy Approval decision and, if approved, be implemented by the applicant.

In accordance with S.12 (1) of the Renewable Energy Approvals Regulation, this letter must be included as part of your application submitted to the MOE for a Renewable Energy Approval.

Please be aware that your project may be subject to additional legislative approvals as outlined in the Ministry of Natural Resources' *Approvals and Permitting Requirements Document*. These approvals are required prior to the construction of your renewable energy facility.

If you wish to discuss any part of this confirmation or additional comments provided, please contact Joanna Gaweda, Regional Planner, Southern Region, MNRF at 705-755-1365.

Sincerely,

Kazia Milian
Land Use Planning Supervisor, Southern Region, MNRF

cc Jim Beal, Renewal Energy Coordinator, Southern Region, MNRF
Mohsen Keyvani, Environmental Assessment and Approvals Branch, MOE

Enclosure

Table 1. Pre-construction monitoring commitments

Wildlife Habitat Type	Location/Feature(s)
Raptor Wintering Area	RWA-001 RWA-002
Bat Maternity Colony	BMA-001
Amphibian Breeding Habitat (Woodland)	AWO-002 AWO-003 AWO-004 AWO-006 AWO-007 AWO-008 AWO-009 AWO-011 AWO-012 AWO-013
Marsh Bird Breeding Habitat	MBB-001 MBB-002
Open Country Bird Breeding Habitat	OCB-001
Eastern Wood-Pewee *(Contopus virens)*	EWP-002 EWP-003 EWP-004 EWP-006 EWP-007 EWP-008
Wood Thrush *(Hylocichla mustelina)*	WTH-001 WTH-002
Prairie Milkweed *(Asclepias sullivantii)*	PMI-001 PMI-002
Pawpaw *(Asimina triloba)*	PAW-001 PAW-002 PAW-003 PAW-004 PAW-005 PAW-006
Muskingum Sedge *(Carex muskingumensis)*	MSE-002 MSE-003 MSE-004 MSE-005 MSE-006 MSE-007
Schweinitz's Flatsedge *(Cyperus schweinitzii)*	SFL-001
Deer-tongue Panicgrass *(Dichanthelium clandestinum)*	DTP-001
White-haired Panicgrass *(Dichanthelium praecocius)*	WHP-001
Burning Bush *(Euonymus*	BBU-001 BBU-002

Wildlife Habitat Type	Location/Feature(s)
atropurpureus)	BBU-003 BBU-004 BBU-005 BBU-006 BBU-007
Many-fruit Primrose-willow *(Ludwigia polycarpa)*	MPW-001 MPW-002 MPW-003 MPW-004
Winged Loosestrife *(Lythrum alatum)*	WLO-001 WLO-002 WLO-003 WLO-004
Biennial Gaura *(Oenothera gaura)*	BGA-001
Climbing Prairie Rose *(Rosa setigera)*	CPR-001
Upright Carrion Flower *(Smilax ecirrata)*	UCF-001 UCF-002 UCF-003 UCF-005
Illinois Carrion Flower *(Smilax illinoensis)*	ICF-001 ICF-002 ICF-003 ICF-004
Giant Ironweed *(Vernonia gigantea)*	GIW-001 GIW-002
Lizard's Tail (*Saururus cernuus*)	LTA-001 LTA-002 LTA-003 LTA-004 LTA-005 LTA-006 LTA-007 LTA-008 LTA-009
Missouri Ironweed (*Vernonia missurica*)	MIW-002 MIW-004 MIW-005 MIW-006 MIW-007 MIW-008
Dion Skipper *(Euphyes dion)*	DIS-001 DIS-002 DIS-003 DIS-004
Duke's Skipper *(Euphyes dukesi)*	DUS-001 DUS-002 DUS-003 DUS-004
Giant Swallowtail *(Papilio cresphontes)*	GSW-001 GSW-002
Common Sootywing *(Pholisora catullus)*	CSO-001
Hickory Hairstreak *(Satyrium caryaevorus)*	HHA-002 HHA-003 HHA-004 HHA-006

Wildlife Habitat Type	Location/Feature(s)
	HHA-007 HHA-009 HHA-010
Hayhurst's Scallopwing *(Staphylus hayhurstii)*	HSC-001
Southern Cloudywing *(Thorybes bathyllus)*	SCL-001

Table 2. Post-Construction Monitoring Commitments

Raptor Wintering Area Surveys	RWA-001 RWA-002
Bat Maternity Colony Surveys	BMA-001
Amphibian Breeding Habitat (Woodland) Surveys	AWO-002 AWO-003 AWO-004 AWO-006 AWO-007 AWO-008 AWO-009 AWO-011 AWO-012 AWO-013
Marsh Bird Breeding Habitat Surveys	MBB-001 MBB-002
Open Country Bird Breeding Habitat	OCB-001
Bird Species of Conservation Concern Surveys: • Eastern Wood-Pewee Habitat • Wood Thrush Habitat	EWP-002 (SCC-P) EWP-003 (SCC-N) EWP-004 (SCC-S) EWP-006 (SCC-A) EWP-007 (SCC-H) EWP-008 (SCC-K) WTH-001 (SCC-N) WTH-002 (SCC-A)
Plant Species of Conservation Concern Surveys: • Pawpaw Habitat • Muskingum Sedge Habitat • Burning Bush Habitat • Illinois Carrion Flower Habitat • Lizard's Tail Habitat • Prairie Milkweed Habitat • Schweinitz's Flatsedge Habitat • Deer-tongue Panicgrass Habitat • White-haired Panicgrass Habitat • Many-fruit Primrose-willow Habitat • Winged Loosestrife Habitat • Biennial Gaura Habitat • Giant Ironweed Habitat • Shumard Oak Habitat • Climbing Prairie Rose Habitat • Upright Carrion Flower Habitat • Shellbark Hickory Habitat • Missouri Ironweed Habitat	PAW-001 (SCC-N) PAW-002 (SCC-I) PAW-003 (SCC-K) PAW-004 (SCC-L) PAW-005 (SCC-B) PAW-006 (SCC-E) MSE-002 (SCC-N) MSE-003 (SCC-I) MSE-004 (SCC-K) MSE-005 (SCC-L) MSE-006 (SCC-B) MSE-007 (SCC-E) BBU-001 (SCC-N) BBU-002 (SCC-I) BBU-003 (SCC-G) BBU-004 (SCC-K) BBU-005 (SCC-L) BBU-006 (SCC-B) BBU-007 (SCC-E) ICF-001 (SCC-G) ICF-002 (SCC-B)

• Pignut Hickory Habitat	ICF-003 (SCC-E) ICF-004 (SCC-K) LTA-001 (SCC-P) LTA-002 (SCC-N) LTA-003 (SCC-I) LTA-004 (SCC-H) LTA-005 (SCC-K) LTA-006 (SCC-L) LTA-007 (SCC-A) LTA-008 (SCC-E) LTA-009 (SCC-D) PMI-001 (SCC-G) PMI-002 (SCC-T) SFL-001 (SCC-M) DTP-001 (SCC-B) WHP-001 (SCC-M) MPW-001 (SCC-P) MPW-002 (SCC-F) MPW-003 (SCC-C) MPW-004 (SCC-D) WLO-001 (SCC-P) WLO-002 (SCC-H) WLO-003 (SCC-C) WLO-004 (SCC-D) BGA-001 (SCC-M) GIW-001 (SCC-P) GIW-002 (SCC-M) CPR-001 (SCC-M) UCF-001 (SCC-G) UCF-002 (SCC-B) UCF-003 (SCC-E) UCF-005 (SCC-K) MIW-002 (SCC-P) MIW-004 (SCC-F) MIW-005 (SCC-K) MIW-006 (SCC-A) MIW-007 (SCC-E) MIW-008 (SCC-D)
Butterfly Species of Conservation Concern Surveys: • Hickory Hairstreak Habitat • Giant Swallowtail Habitat • Dion Skipper Habitat • Duke's Skipper Habitat • Common Sootywing Habitat • Hayhurst's Scallopwing Habitat • Southern Cloudywing Habitat	HHA-002 (SCC-P) HHA-003 (SCC-N) HHA-004 (SCC-S) HHA-006 (SCC-H) HHA-007 (SCC-K) HHA-009 (SCC-E) HHA-010 (SCC-D) GSW-001 (SCC-G) GSW-002 (SCC-M) DIS-001 (SCC-H) DIS-002 (SCC-K) DIS-003 (SCC-C) DIS-004 (SCC-D) DUS-001 (SCC-H) DUS-002 (SCC-K) DUS-003 (SCC-C) DUS-004 (SCC-D) CSO-001 (SCC-M) HSC-001 (SCC-M) SCL-001 (SCC-M)

Appendix D – Archaeological Assessment Addendum and Ministry of Culture, Tourism and Sport Confirmation

Van der Woerd, Mark

To: Drouin, Bradley; Grieve, Becky; b.ashby@samsung.com; Jody Law; b.edwards@samsung.com; Rose, Marc; Parslow, Carla
Subject: RE: Belle River Stage 2 Project Layout Change

-------- Original message --------
From: "Brooks, Meagan (MTCS)" <Meagan.Brooks@ontario.ca>
Date: 11-19-2015 10:07 AM (GMT-05:00)
To: "Parslow, Carla" <Carla_Parslow@golder.com>
Cc: "Archaeology (MTCS)" <archaeology@ontario.ca>,"Drouin, Bradley" <Bradley_Drouin@golder.com>
Subject: RE: Belle River Stage 2 Project Layout Change

Hello Carla,

This ministry has had the opportunity to review the proposed refinements to your project as outlined in the above-referenced document. The assessment of the area proposed to be impacted was documented in Stage 2 Archaeological Assessments under P311-0278-2014; P311-0292-2014; P311-0301-2014, which has been entered into the Ontario Public Register of Archaeology reports. The report recommended Stage 3 site specific archaeological assessment for 10 of the 29 archaeological locations identified.

The proposed changes to the Belle River Wind Project outlined in your email of November 18th 2015 do not affect the original recommendations for this property.

These comments address concerns for archaeological resources only. Please contact your heritage consultant regarding concerns for impacts to other heritage resources.

This does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

I trust this is of assistance. Should you require any further information regarding this matter, please feel free to contact me.

Meagan Brooks

Archaeology Review Officer

Archaeology Program Unit

Ministry of Tourism, Culture and Sport

401 Bay Street, Suite 1700

Toronto, Ontario

M7A 0A7

416-314-7123

Meagan.Brooks@ontario.ca

From: Parslow, Carla [mailto:Carla_Parslow@golder.com]
Sent: November 18, 2015 3:32 PM
To: Brooks, Meagan (MTCS)
Cc: Williams, Andrea (MTCS); Archaeology (MTCS); Drouin, Bradley
Subject: Belle River Stage 2 Project Layout Change

Greetings Meagan,

I am submitting this letter on behalf of Brad Drouin as he is out of office today. Brad had discussed with Andrea (cc'd) a project layout for the Belle River Wind Project. It was suggested that a letter be drafted and presented to MTCS detailing the changes and assuring MTCS that the layout changes neither impact any known archaeological sites, nor do the changes require any further Stage 2 assessment. Attached is the letter. Please review the attached letter and let Brad know if there are any potential issues.

Thank you,

Carla Parslow

Carla Parslow (Ph.D.) | Associate, Senior Archaeologist | **Golder Associates Ltd.**
6925 Century Avenue, Suite #100, Mississauga, Ontario, Canada L5N 7K2
T: +1 (905) 567 4444 | **D:** +1 (905) 567-6100 x1552 | **F:** +1 (905) 567 6561 | **C:** +1 (647) 261-6440 | **E:** Carla_Parslow@golder.com | **www.golder.com**

Work Safe, Home Safe

November 18, 2015 Project No. 1404174

Ms. Meagan Brooks
Archaeology Review Officer - ARCHAEOLOGY PROGRAMS UNIT
Ministry of Tourism, Culture, and Sport
Suite 1700, 401 Bay St
Toronto, ON, M7A 0A7

STAGE 2 ARCHAEOLOGICAL ASSESSMENT - BELLE RIVER WIND PROJECT PIF P311-0278, 0292, 0301-2014 POST SUBMISSION PROJECT CHANGE

Dear Meagan

Since submission and acceptance of the Stage 2 report for the Belle River Wind Project (P311-0278-2014, P311-0292-2014 and P311-0301-2014), changes have been undertaken to the project layout. These changes include: the removal of Turbines 13, 34, and 31; and the slight adjustment to the location of Turbines 15, 35, 49, 51, 57, and 206.

There are no impacts to archaeological resources in the removal of Turbines 13, 34, and 31. All areas on or surrounding the slight changes to Turbine locations have been assessed in the Stage 2 property survey and no archaeological resources are recorded within 100 metres of Turbines 15, 35, 49, 51, 57, and 206; thus, there are no impacts to known archaeological resources.

Please find attached two sets of maps. The first set illustrates the changes to the Turbines as noted above. The second set illustrates the location of archaeological sites to the Turbines as noted above. Should you have any comments or questions, please contact Brad Drouin at 613-863-7811 or at Bradley_Drouin@golder.com.

Sincerely,

GOLDER ASSOCIATES LTD.

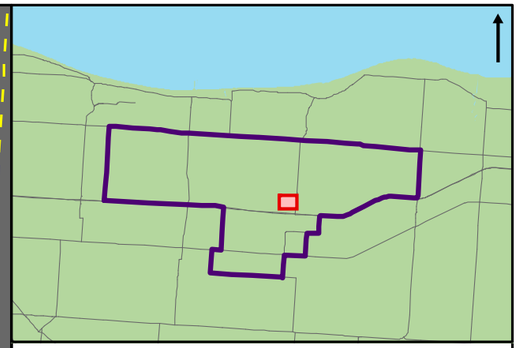
Brad Drouin, M.A.
Senior Archaeologist

Carla Parslow, Ph.D.
Associate

BD/CP/ca
n:\active\2014\1125 - eceag\1404174 st 1-2 belle river_aecom\01 project management\1404174 mtcs letter 18nov2015.docx

Attachments: Figure 1-A – 1-I – Project Location Modifications
Map 1 – Belle River Wind Project (Study Area)
Tile 1 – Archaeological Site Location

Golder Associates Ltd.
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
Tel: +1 (613) 592 9600 Fax: +1 (613) 592 9601 www.golder.com
Golder Associates: Operations in Africa, Asia, Australasia, Europe, North America and South America



Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

N

0 50 100 200

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:3,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM
AECOM Canada Ltd.

Figure 1-A

Map location: F:\AECOM Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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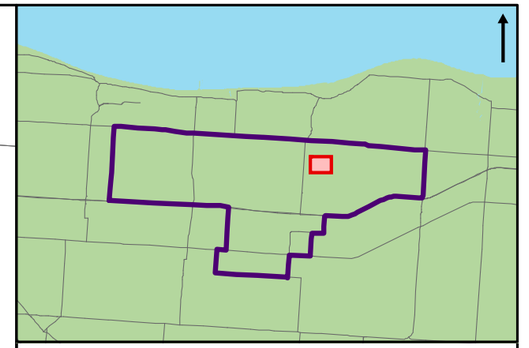

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 60 120 240

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:3,500	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM
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Figure 1-B

Map location: F:\AECOM-Wo\60\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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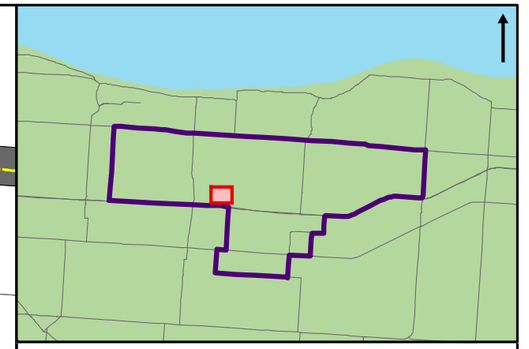

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

N

0 60 120 240

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:3,500	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM

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Figure 1-C

Map location: F:\AECOM-Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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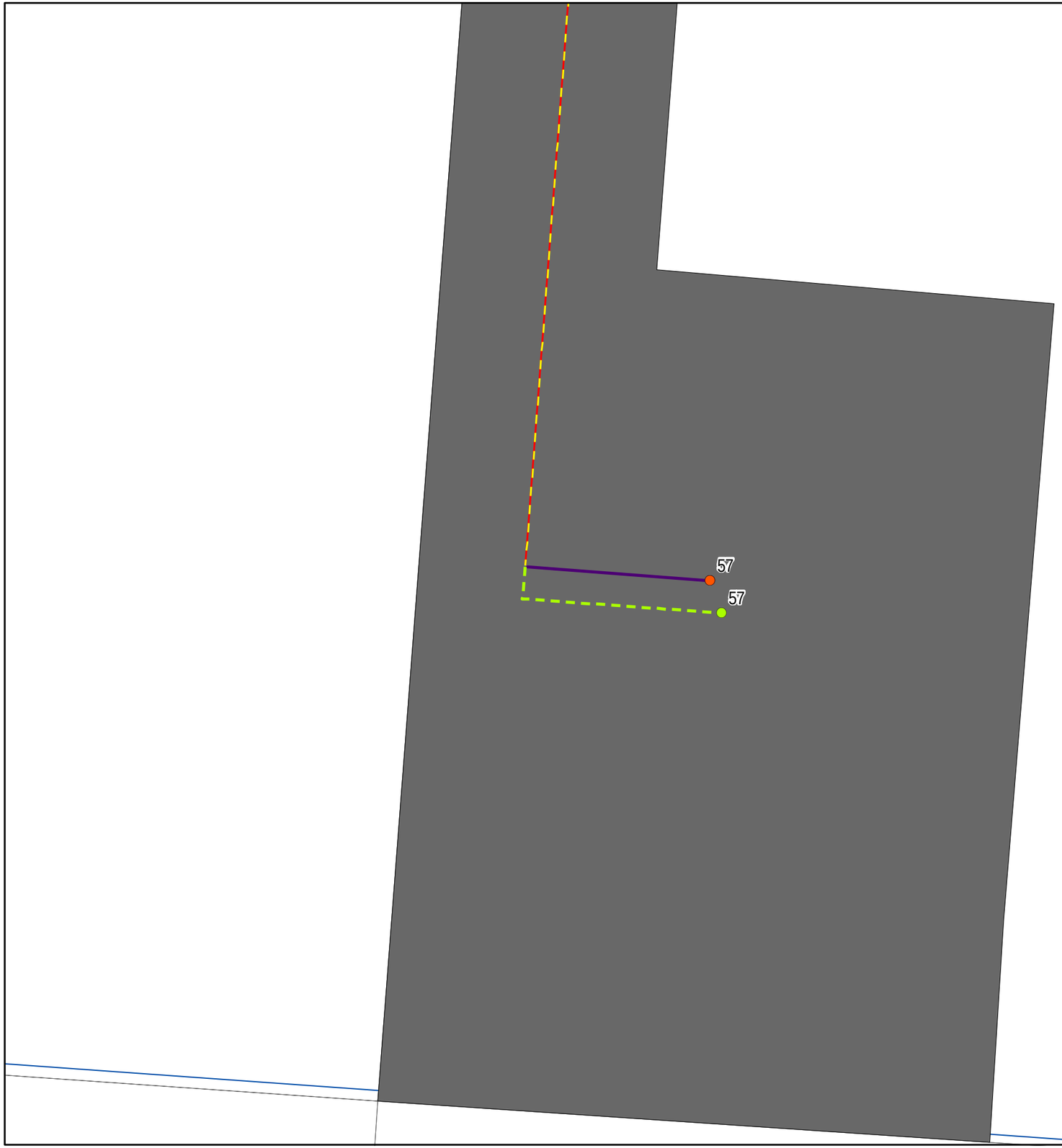

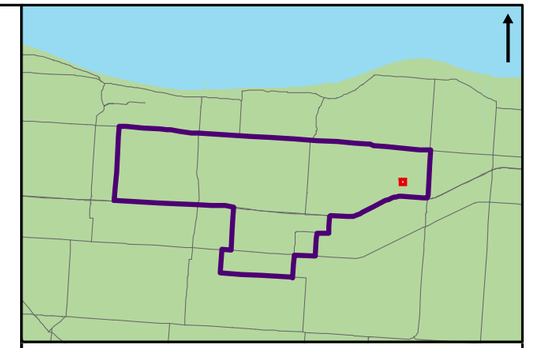

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM
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Figure 1-D

Map location: F:\AECOM Work\60321891 Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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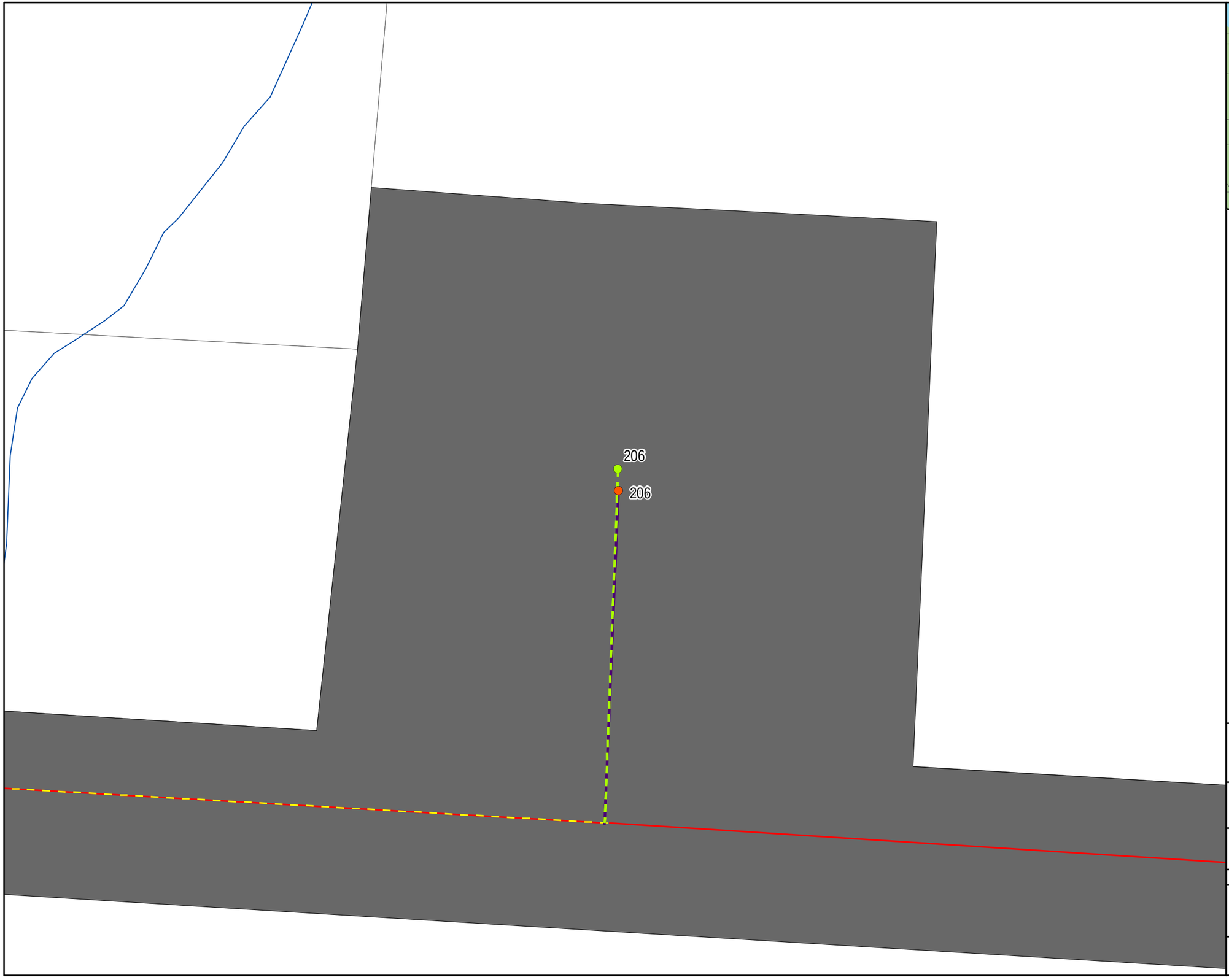

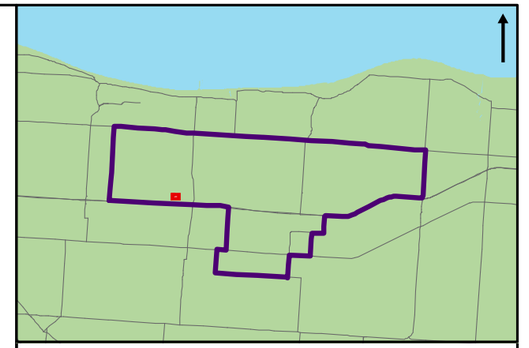

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

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Figure 1-E

Map location: F:\AECOM-Wk\60321891-Belle River\Design\Change Maps\Post_Submission_Change_2015 1111.mxd
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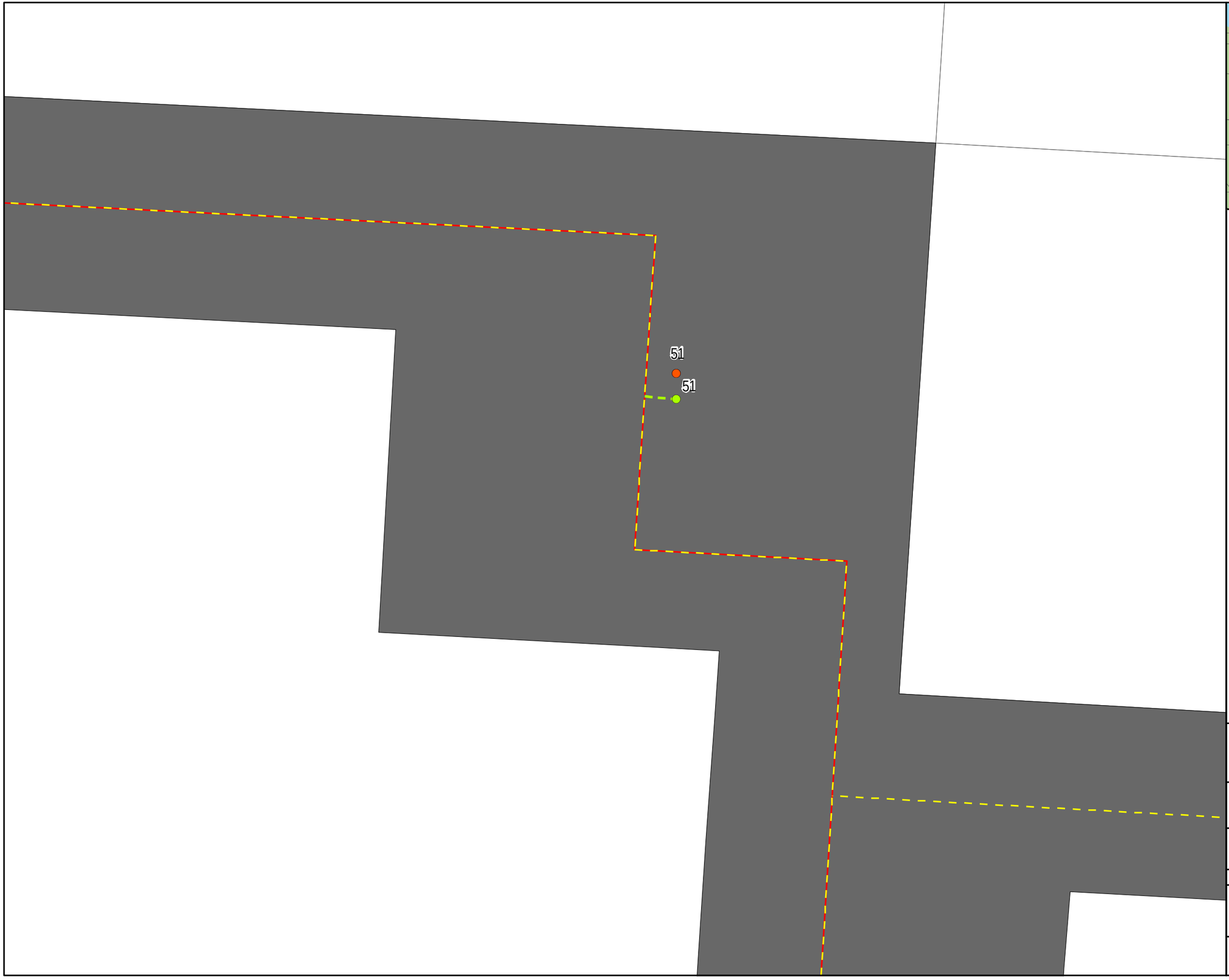

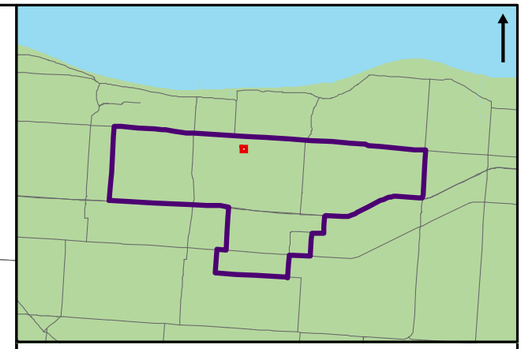

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

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Figure 1-F

Map location: F:\AECOM-Wtr\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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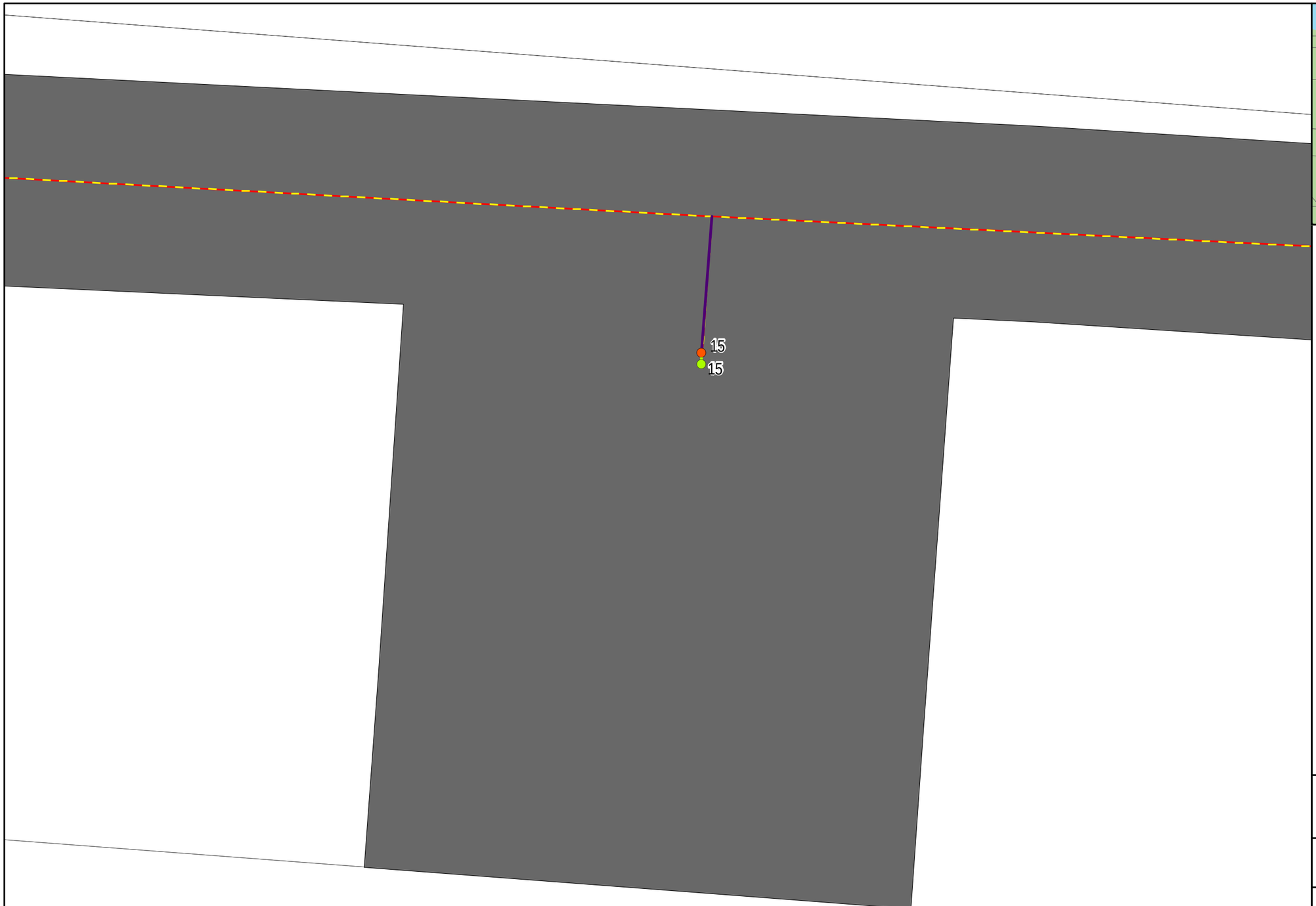

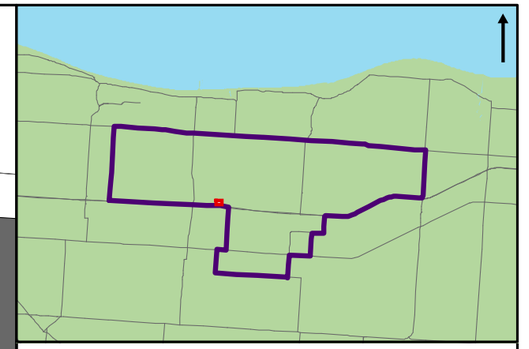

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

N

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

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AECOM Canada Ltd

Figure 1-G

Map location: F:\AECOM\Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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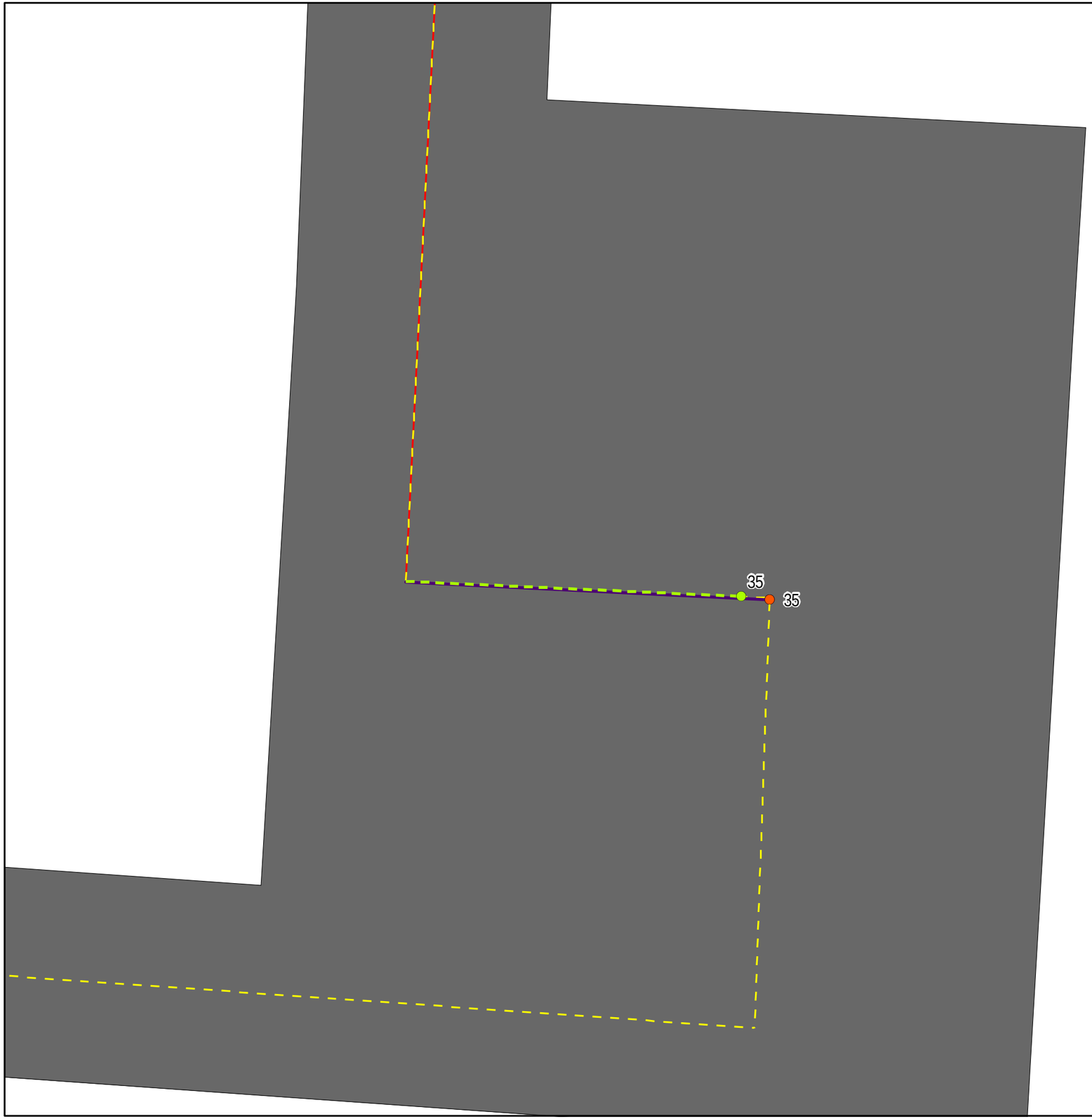

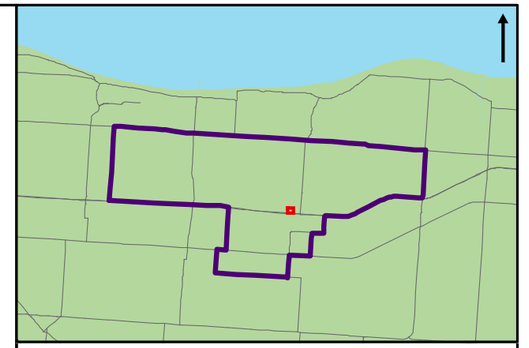

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

N

0 15 30 60

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:1,000	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

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Figure 1-H

Map location: F:\AECOM Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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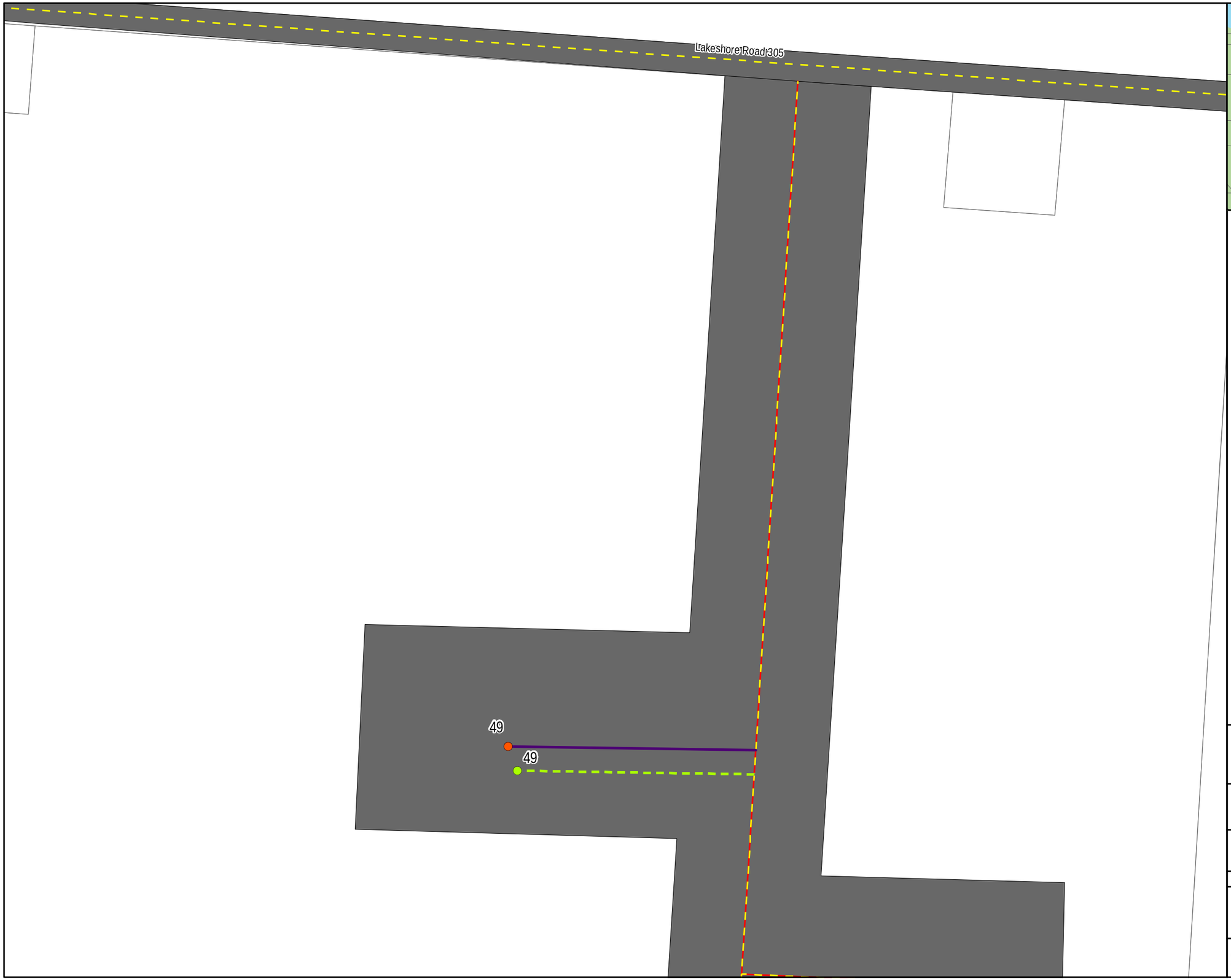

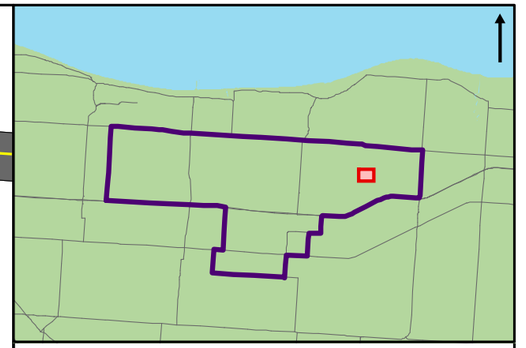

N

Project Layout Modifications

- Turbine - Added
- Turbine - Removed
- Access Road & Collector Line - Added
- Access Road & Collector Line - Removed
- Project Location / Investigation Area - Removed

Project Layout

- Turbine
- Collector Line
- Access Road
- Potential Transmission Line Route
- Project Location / Investigation Area
- Potential Laydown Area
- Potential Point of Interconnection
- Collector Substation / Operation & Maintenance Building

Base Layers

- Road
- Waterbody
- Watercourse
- Wooded Area
- Property Boundary

0 40 80 160

Meters

Belle River Wind Project

Project Location Modifications

November 2015	1:2,500	Datum: NAD 83, Zone 17 Source: LIO
P#: 60321891	V#: Final	

AECOM
AECOM Canada Ltd.

Figure 1-I

Map location: F:\AECOM-Work\60321891-Belle River\Design\Change Maps\Post_Submission_Change_20151111.mxd
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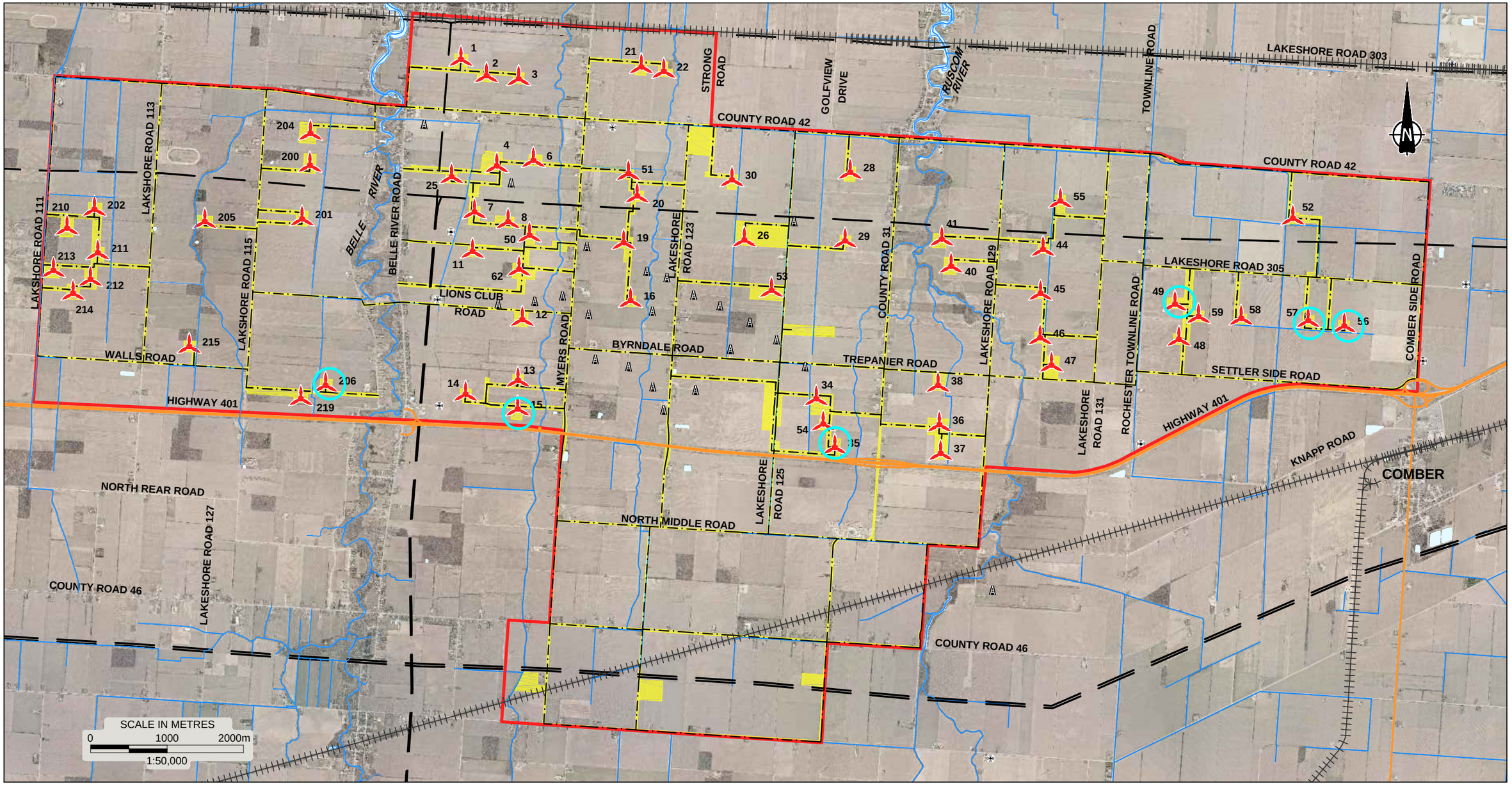


LEGEND

- PETROLEUM WELL
- COMMUNICATIONS TOWER
- TURBINE
- STUDY AREA
- WATER SEGMENT
- RAIL LINE (EXISTING OR FORMER)
- UTILITY LINE
- COLLECTION LINE
- DRAFT REA
- WATER BODY

REFERENCE

DRAWING BASED ON 2013 AERIAL IMAGE FROM THE COUNTY OF ESSEX INTERACTIVE WEB MAPPING SITE, BY PERMISSION;
GIS LAYERS FROM AECOM, MAY 27 - 2014; AND CANMAP STREETFILES V2008.4.

NOTES

THIS DRAWING IS SCHEMATIC ONLY AND IS TO BE READ IN CONJUNCTION WITH ACCOMPANYING TEXT.

ALL LOCATIONS ARE APPROXIMATE.

PROJECT

SP BELLE RIVER WIND LP
BELLE RIVER WIND PROJECT
VARIOUS LOTS AND CONCESSIONS, GEOGRAPHIC
TOWNSHIPS OF MAIDSTONE, ROCHESTER AND TILBURY WEST
TOWN OF LAKESHORE, ESSEX COUNTY, ONTARIO

TITLE

BELLE RIVER WIND PROJECT (STUDY AREA)

Golder Associates
LONDON, ONTARIO

PROJECT No.		1404174	FILE No. 1404174–2000–R01001
			SCALE AS SHOWN REV.
CADD	DCH	Mar 12/15	
CHECK			MAP 1

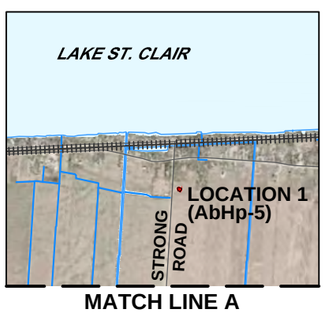
Drawing file: 1404174–2000–R01001.dwg Mar 12, 2015 – 1:41pm

MATCH LINE A

LOCATION 5
LOCATION 24 (AbHq-7)
LOCATION 18 (AbHp-11)
LOCATION 29
LOCATION 16
LOCATION 17 (AbHp-10)
LOCATION 15
LOCATION 21
LOCATION 26
LOCATION 6
LOCATION 22 (AbHp-12)
LOCATION 28 (AbHq8)
LOCATION 27
LOCATION 25
LOCATION 20
LOCATION 10
LOCATION 7
LOCATION 9
LOCATION 11
LOCATION 8
LOCATION 12
LOCATION 23
LOCATION 2 (AbHp-6)
LOCATION 3 (AbHp-7)
LOCATION 4 (AbHp-8)
LOCATION 13
LOCATION 19
LOCATION 14 (AbHp-9)

LAKESHORE ROAD 303
COUNTY ROAD 42
ROCHESTER TOWNLINE ROAD
LAKESHORE ROAD 111
LAKSHORE ROAD 113
LAKSHORE ROAD 115
BELLE RIVER
BELLE RIVER ROAD
LAKESHORE ROAD 123
COUNTY ROAD 31
LAKESHORE ROAD 131
LAKESHORE ROAD 125
LAKESHORE ROAD 129
LAKESHORE ROAD 305
COMBER SIDE ROAD
LIONS CLUB ROAD
MYERS ROAD
BYRNDALE ROAD
TREPANIER ROAD
SETTLER SIDE ROAD
WALLS ROAD
HIGHWAY 401
KNAPP ROAD
COMBER
NORTH REAR ROAD
NORTH MIDDLE ROAD
LAKSHORE ROAD 127
COUNTY ROAD 46

SCALE IN METRES
0 1000 2000m
1:50,000



MATCH LINE A

LEGEND

- STUDY AREA
- ARCHAEOLOGICAL LOCATION
- WATER SEGMENT
- RAIL LINE (EXISTING OR FORMER)
- COLLECTION LINE
- DRAFT REA
- WATER BODY

REFERENCE

DRAWING BASED ON 2013 AERIAL IMAGE FROM THE COUNTY OF ESSEX INTERACTIVE WEB MAPPING SITE, BY PERMISSION;
GIS LAYERS FROM AECOM, MAY 27 - 2014; AND CANMAP STREETFILES V2008.4.

NOTES

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ALL LOCATIONS ARE APPROXIMATE.

PROJECT

SP BELLE RIVER WIND LP
BELLE RIVER WIND PROJECT
VARIOUS LOTS AND CONCESSIONS, GEOGRAPHIC TOWNSHIPS OF MAIDSTONE, ROCHESTER AND TILBURY WEST
TOWN OF LAKESHORE, ESSEX COUNTY, ONTARIO

TITLE

ARCHAEOLOGICAL SITE LOCATIONS

Golder Associates
LONDON, ONTARIO

PROJECT No.		1404174	FILE No. 1404174–2000–R010T1
			SCALE AS SHOWN REV.
CADD	DCH	Mar 12/15	
CHECK			

TILE 1

Drawing file: 1404174–2000–R010T1.dwg Mar 12, 2015 – 4:27pm

Appendix E – Project Modifications Report Public Notice

Notice of a Proposed Change to the Renewable Energy Approval Application for the Belle River Wind Project

Project Name: Belle River Wind Project (the "Project")

IESO #: F-003962-WIN-KC3-610

Project Location: The Project is located in the Town of Lakeshore, Essex County, Ontario

Notice Dated at: Town of Lakeshore and Essex County this, the 25th of November, 2015

Applicant: The Project has been proposed by SP Belle River Wind, LP, by its general partner, SP Belle River Wind, GP Inc. ("Belle River Wind"). Belle River Wind is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada, ULC ("Pattern Development") and Samsung Renewable Energy, Inc. ("Samsung Renewable Energy").

Project Description: As a renewable energy facility, the Project is subject to the provisions of the *Environmental Protection Act* (the "Act") Part V.0.1 and Ontario Regulation 359/09, as amended (the "Regulation"), and requires a Renewable Energy Approval (REA) prior to construction. If approved, the Project would have a total maximum nameplate capacity of up to 100 megawatts (MW). As identified in the Act and Regulation, the Project is a Class 4 wind facility. The location of key Project components is shown in the map below. Additional information about the Project is available online at www.belleriverwind.com.

Proposed Change: This notice is being distributed at the request of the Ministry of the Environment and Climate Change to advise of proposed modifications to the Project. Belle River Wind is removing Turbines 13, 34 and 41 and adjusting the placement of Turbines 15, 35, 49, 51, 57 and 206 to address comments and data received during the technical review of the REA application.

A Project Modifications Report has been prepared which outlines updates made to each of the reports and studies provided as part of the REA application. The report is available for public review on the Project website (www.belleriverwind.com) starting on November 25, 2015.

Project Contact Information: To learn more about the Project, please contact: info@belleriverwind.com

Jody Law
Project Developer
Pattern Development
355 Adelaide Street West, Suite 100
Toronto, ON M5V 1S2
Phone: (416) 263-8026

Brian Edwards
Project Developer
Samsung Renewable Energy
2050 Derry Road West, 2nd Floor
Mississauga, ON L5N 0B9
Phone: (905) 501-5667

Marc Rose
Senior Environmental Planner
AECOM
105 Commerce Valley Dr. West
Markham, ON L3T 7W3
Phone: (905) 747-7793