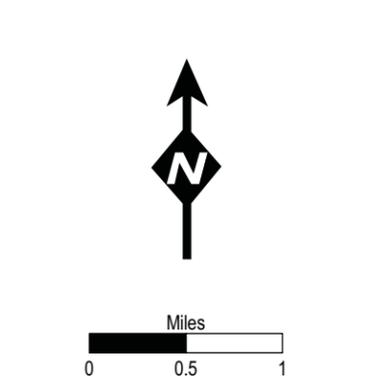


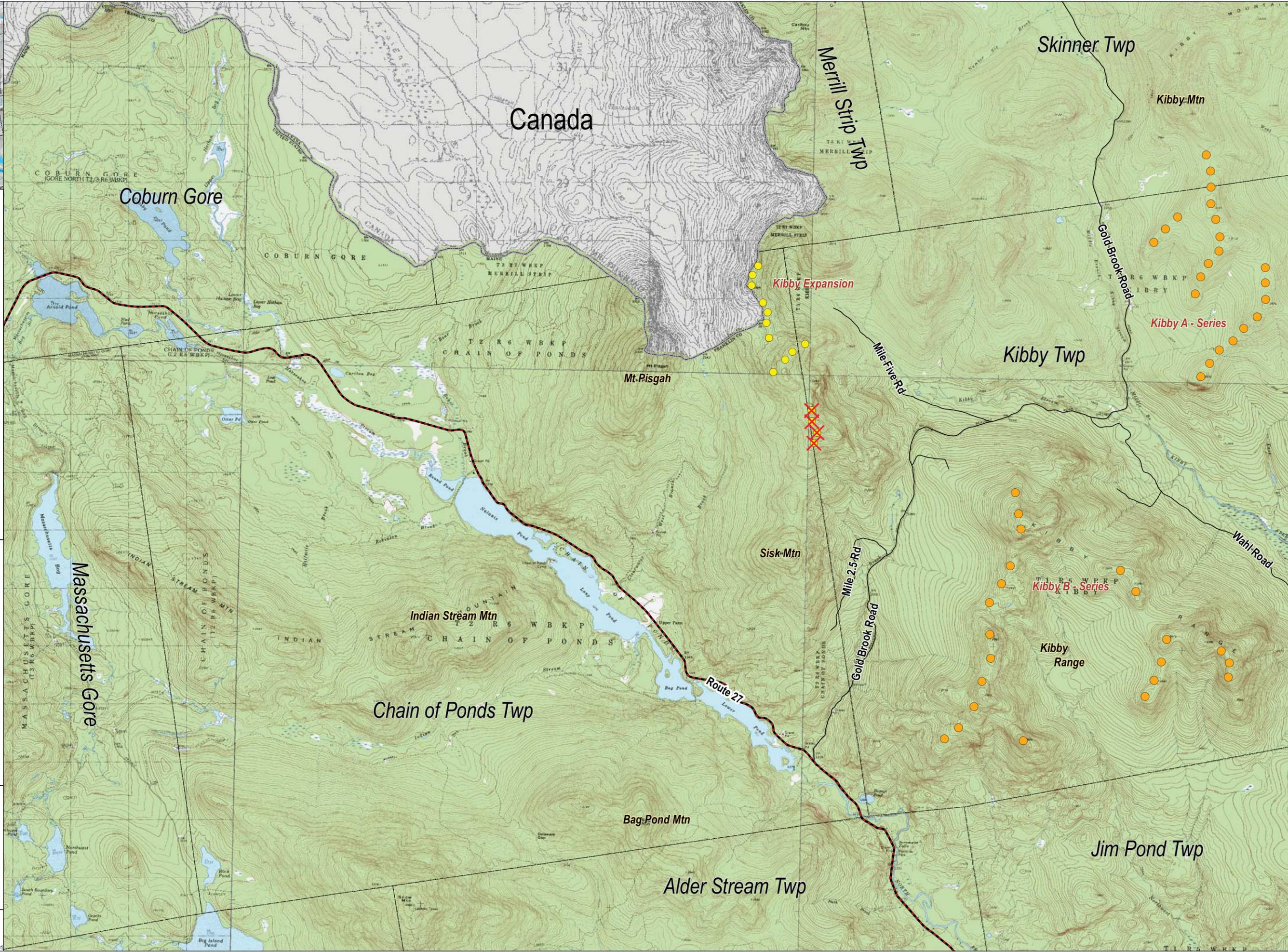
- Legend**
- Kibby Expansion Turbine Layout
  - ✗ Turbines Removed
  - Kibby Turbine Layout
  - Road
  - Route 27
  - State Boundary
  - County Boundary
  - Town Boundary

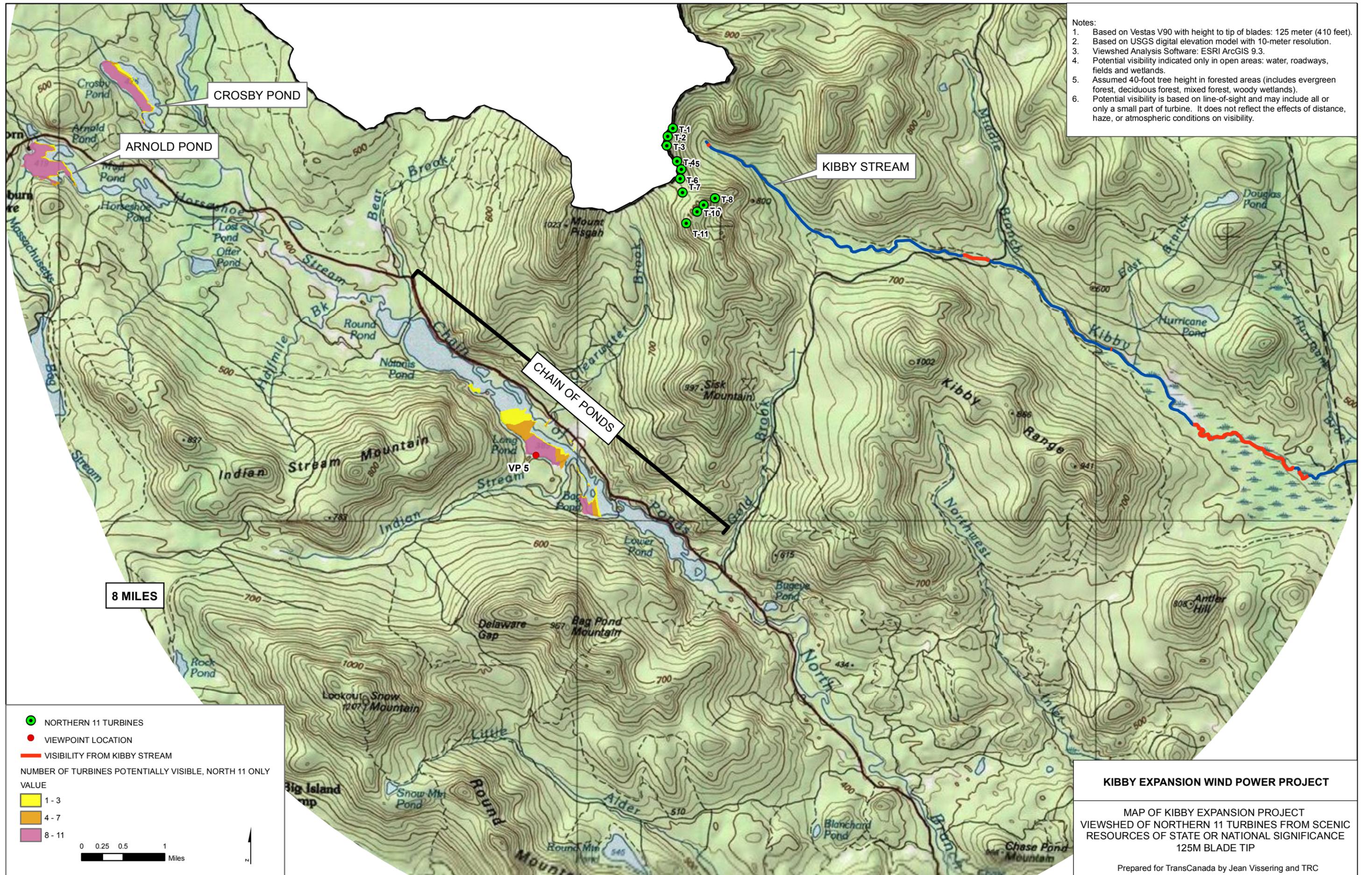


Sources: Maine OGIS, USGS, TRC  
 INFORMATION DEPICTED HEREON IS FOR REFERENCE PURPOSES ONLY AND IS COMPILED FROM BEST AVAILABLE SOURCES. TRC ASSUMES NO RESPONSIBILITY FOR ERRORS ARISING FROM MISUSE OF THIS MAP.

# Kibby Expansion Wind Power Project 11 Turbine Layout

## Project Overview





- Notes:
1. Based on Vestas V90 with height to tip of blades: 125 meter (410 feet).
  2. Based on USGS digital elevation model with 10-meter resolution.
  3. Viewshed Analysis Software: ESRI ArcGIS 9.3.
  4. Potential visibility indicated only in open areas: water, roadways, fields and wetlands.
  5. Assumed 40-foot tree height in forested areas (includes evergreen forest, deciduous forest, mixed forest, woody wetlands).
  6. Potential visibility is based on line-of-sight and may include all or only a small part of turbine. It does not reflect the effects of distance, haze, or atmospheric conditions on visibility.

- NORTHERN 11 TURBINES
- VIEWPOINT LOCATION
- VISIBILITY FROM KIBBY STREAM

NUMBER OF TURBINES POTENTIALLY VISIBLE, NORTH 11 ONLY  
VALUE

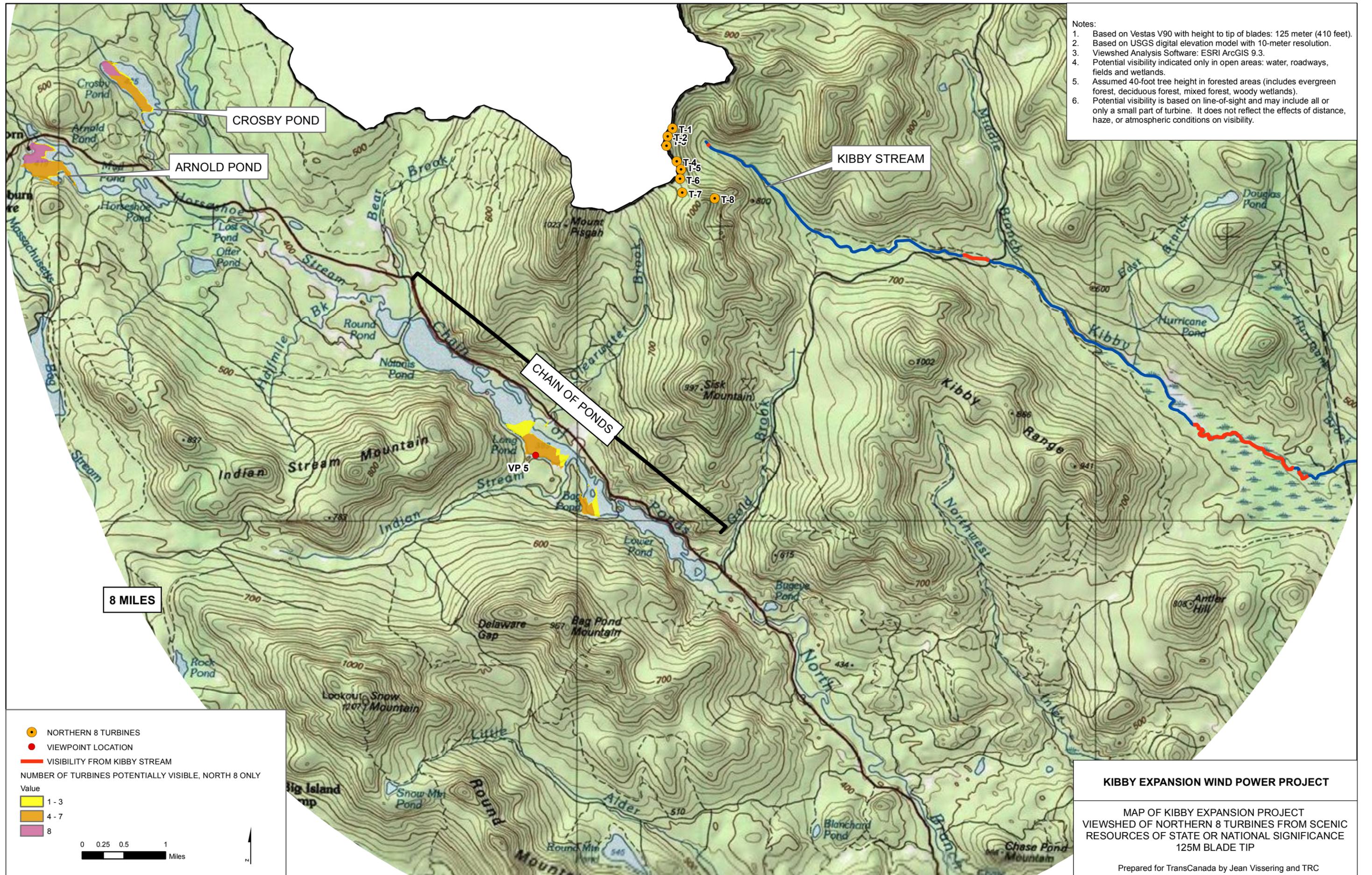
	1 - 3
	4 - 7
	8 - 11

0 0.25 0.5 1 Miles

**KIBBY EXPANSION WIND POWER PROJECT**

MAP OF KIBBY EXPANSION PROJECT  
VIEWSHED OF NORTHERN 11 TURBINES FROM SCENIC  
RESOURCES OF STATE OR NATIONAL SIGNIFICANCE  
125M BLADE TIP

Prepared for TransCanada by Jean Vissering and TRC



- Notes:
1. Based on Vestas V90 with height to tip of blades: 125 meter (410 feet).
  2. Based on USGS digital elevation model with 10-meter resolution.
  3. Viewshed Analysis Software: ESRI ArcGIS 9.3.
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  5. Assumed 40-foot tree height in forested areas (includes evergreen forest, deciduous forest, mixed forest, woody wetlands).
  6. Potential visibility is based on line-of-sight and may include all or only a small part of turbine. It does not reflect the effects of distance, haze, or atmospheric conditions on visibility.

- NORTHERN 8 TURBINES
- VIEWPOINT LOCATION
- VISIBILITY FROM KIBBY STREAM

NUMBER OF TURBINES POTENTIALLY VISIBLE, NORTH 8 ONLY

Value	Color
1 - 3	Yellow
4 - 7	Orange
8	Pink

0 0.25 0.5 1 Miles

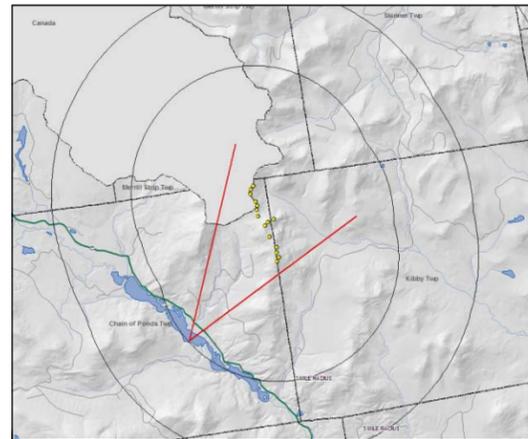
**KIBBY EXPANSION WIND POWER PROJECT**

MAP OF KIBBY EXPANSION PROJECT  
 VIEWSHED OF NORTHERN 8 TURBINES FROM SCENIC  
 RESOURCES OF STATE OR NATIONAL SIGNIFICANCE  
 125M BLADE TIP

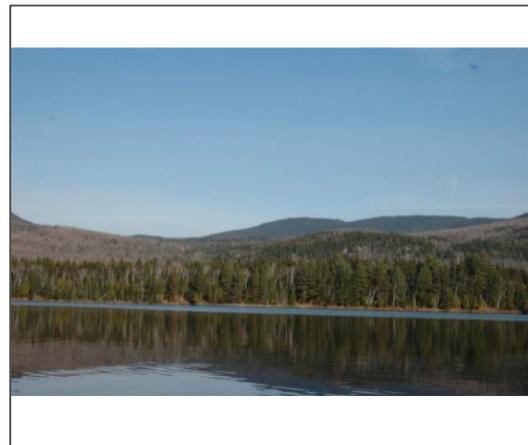
Prepared for TransCanada by Jean Vissering and TRC



**VIEWPOINT LOCATION MAP**



**EXISTING CONDITIONS**



**TECHNICAL INFORMATION**

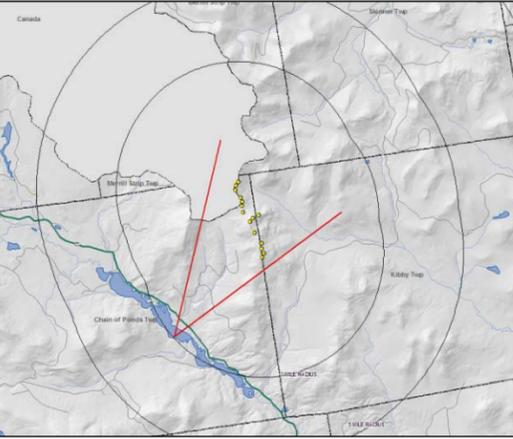
<i>Turbine Model</i>	Vestas V90 3 MW
<i>Hub Height</i>	80 meters
<i>Rotor Diameter</i>	90 meters
<i>Viewpoint Coordinates</i>	369271.3 E
<i>In UTM 19</i>	5021474.5 N
<i>Viewpoint Location</i>	Long Pond, SE
<i>Viewer Elevation</i>	1274 ft msl
<i>Distance to Closest Turbine</i>	3.0 miles
<i>Distance to Furthest Turbine</i>	4.25 miles
<i>Number of Visible Turbines</i>	14
<i>Camera Model</i>	Nikon D70
<i>Lens Setting</i>	50 mm (equivalents)
<i>Date/Time</i>	11.09.09/11:46 am

**KIBBY EXPANSION WIND POWER PROJECT**

Photosimulations Prepared for TransCanada  
by Jean Vissering and TRC



**VIEWPOINT LOCATION MAP**



**EXISTING CONDITIONS**



**TECHNICAL INFORMATION**

<i>Turbine Model</i>	Vestas V90 3 MW
<i>Hub Height</i>	80 meters
<i>Rotor Diameter</i>	90 meters
<i>Viewpoint Coordinates</i>	369271.3 E
<i>In UTM 19</i>	5021474.5 N
<i>Viewpoint Location</i>	Long Pond, SE
<i>Viewer Elevation</i>	1274 ft msl
<i>Distance to Closest Turbine</i>	3.3 miles
<i>Distance to Furthest Turbine</i>	4.25 miles
<i>Number of Visible Turbines</i>	10
<i>Camera Model</i>	Nikon D70
<i>Lens Setting</i>	50 mm (equivalents)
<i>Date/Time</i>	11.09.09/11:46 am

**KIBBY EXPANSION WIND POWER PROJECT**  
 Photosimulations Prepared for TransCanada  
 by Jean Vissering and TRC