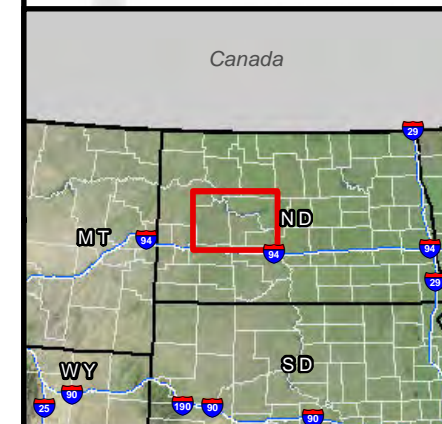
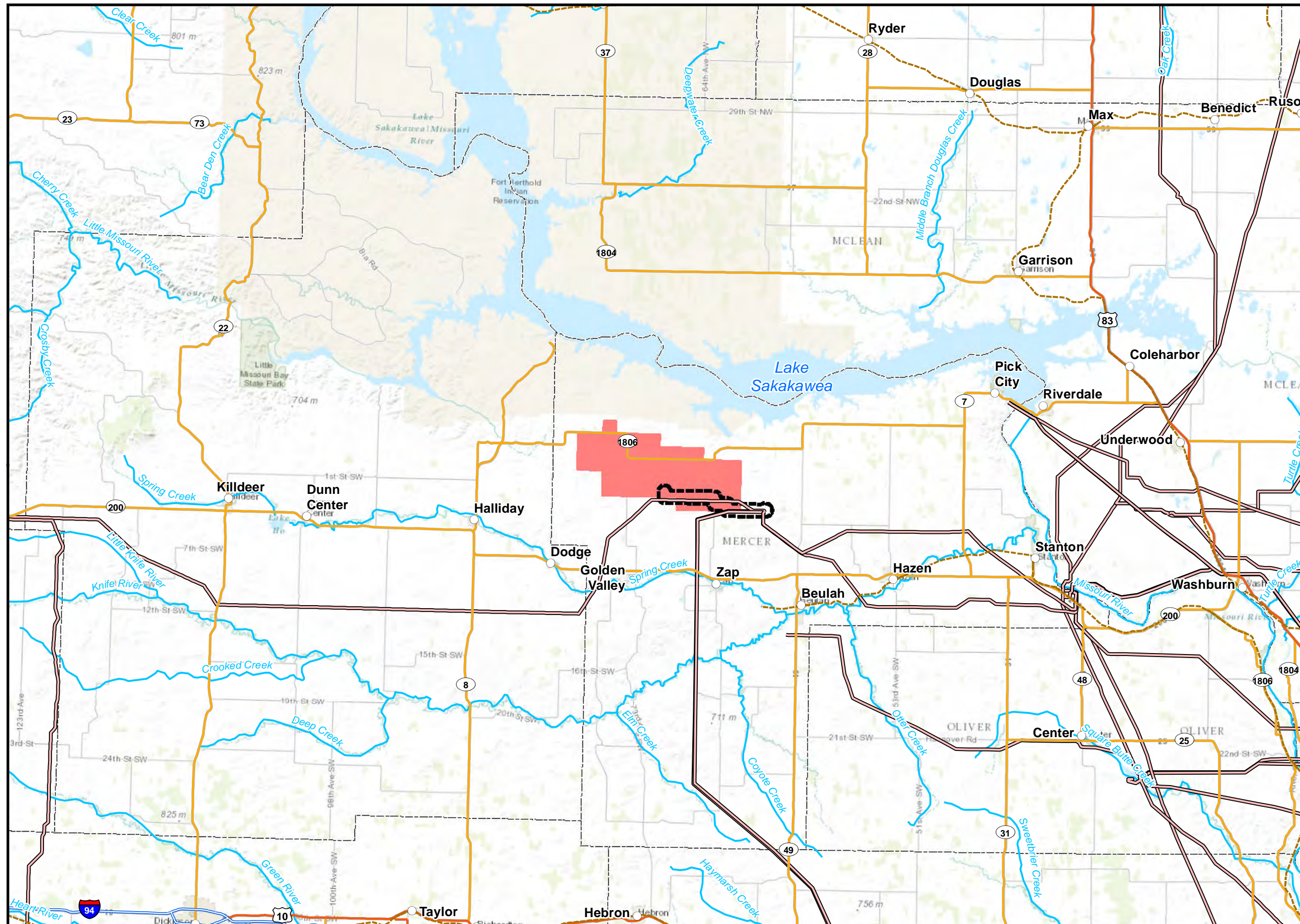


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Figure 1  
Project Location

Mercer County, ND  
August 2014

- Project Area
- Proposed Corridor
- County Boundary
- Existing Transmission Line (Over 230 kV)
- Railroad
- Interstate Highway
- Federal Highway
- State Highway
- Stream or River
- City/Town



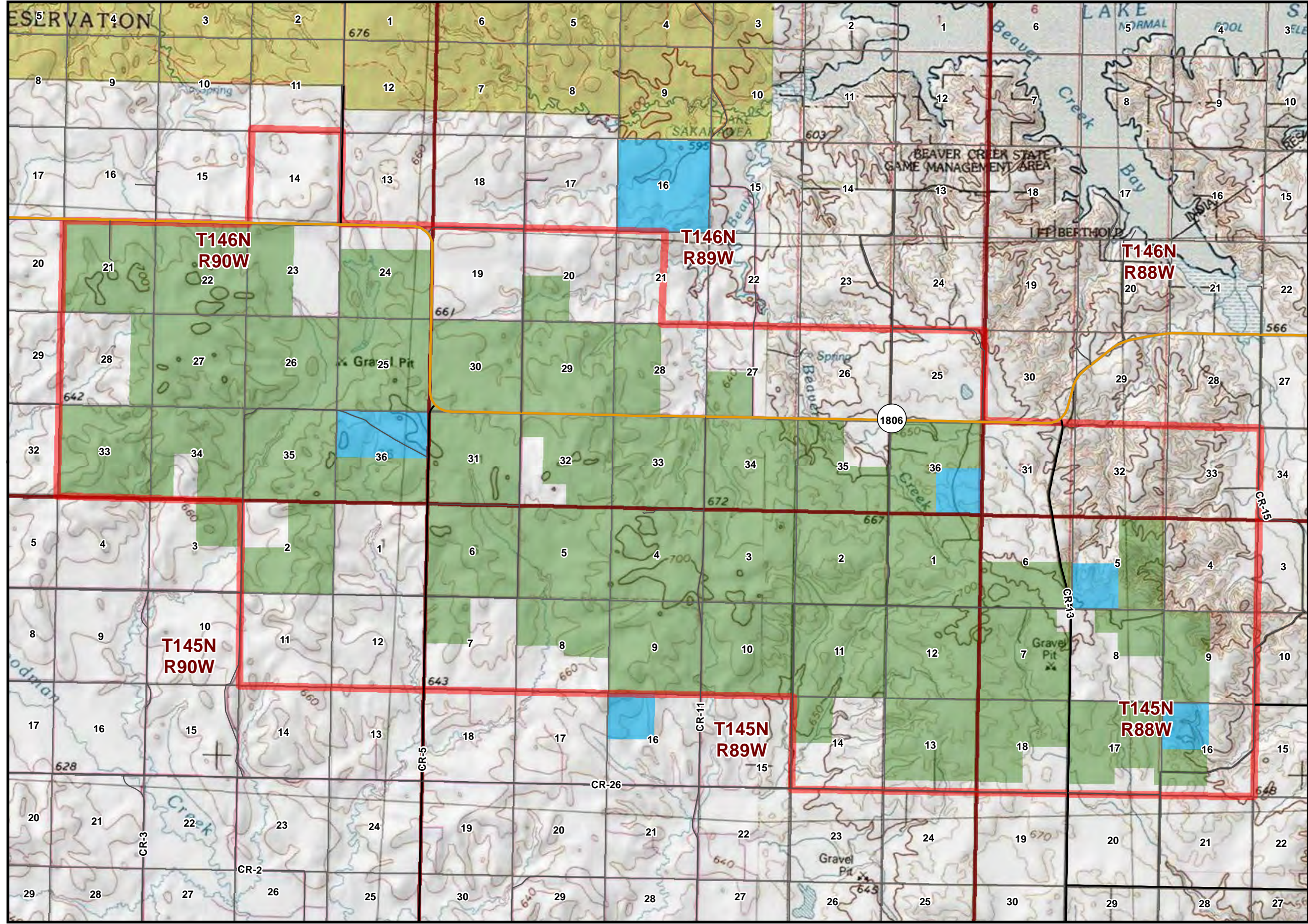
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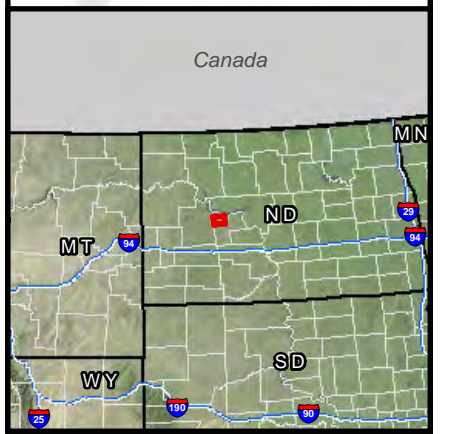
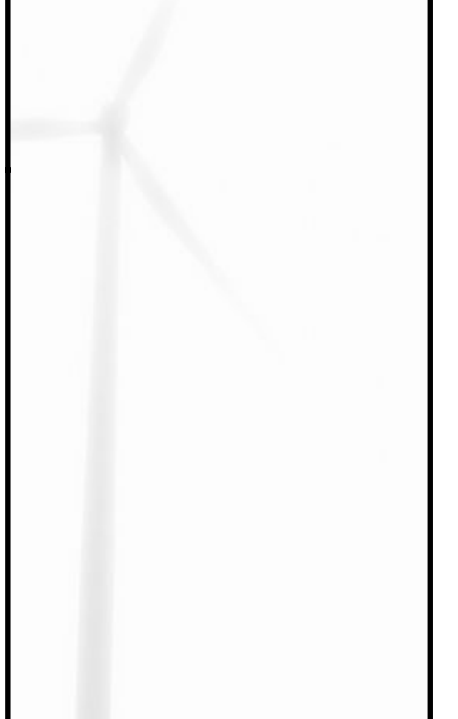
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Figure 2  
 Project Area  
 Participating Landowners by  
 Township, Range and Section

Mercer County, ND  
 August 2014



- Project Area
- Participating Landowner
- State Land
- Township/Range
- Section
- State Highway
- County Major Collector Road
- Other County Road








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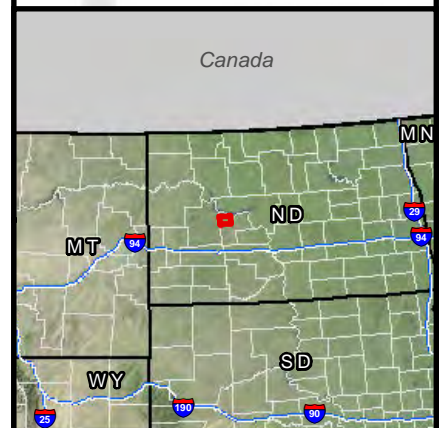
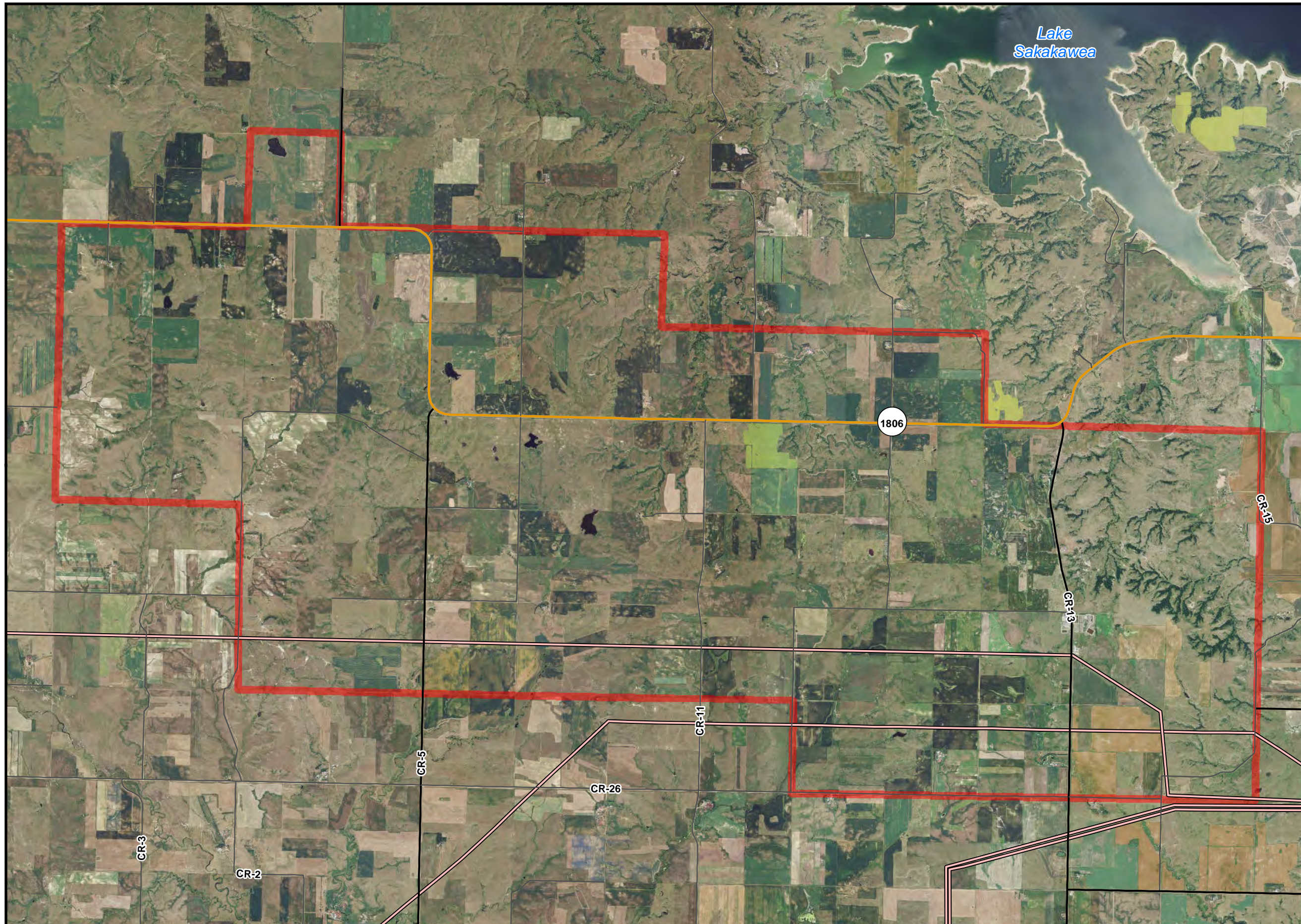


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Figure 3  
Project Area  
Aerial Image

Mercer County, ND  
August 2014

-  Project Area
-  Existing Transmission Line (Over 230 kV)
-  State Highway
-  County Major Collector Road
-  Other County Road






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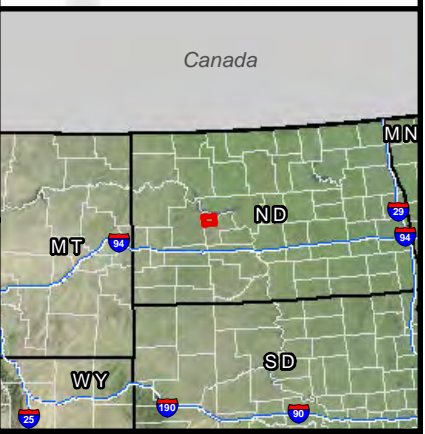
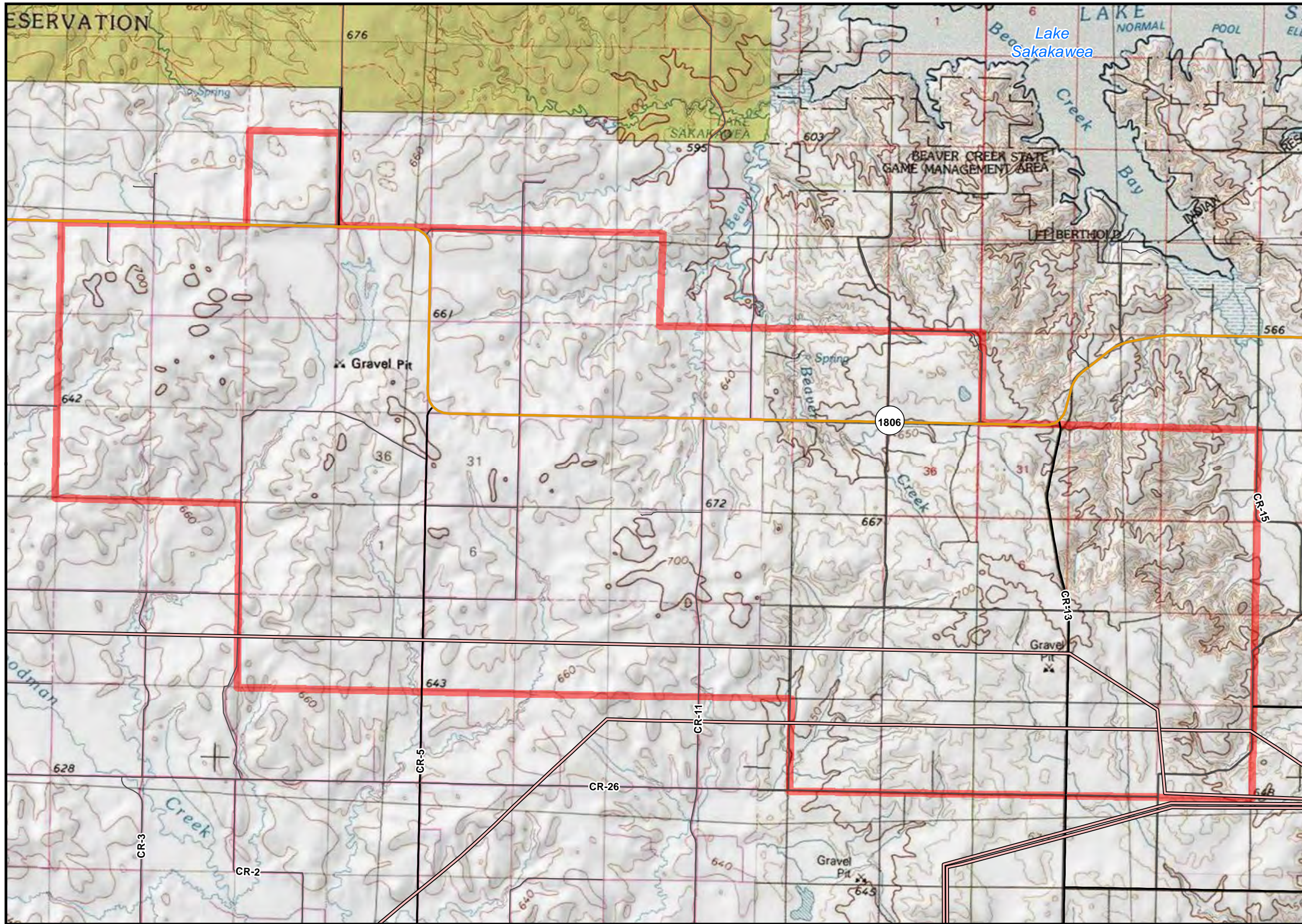
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Figure 4  
Project Area  
Topographic Image

Mercer County, ND  
August 2014

-  Project Area
-  Existing Transmission Line (Over 230 kV)
-  State Highway
-  County Major Collector Road
-  Other County Road



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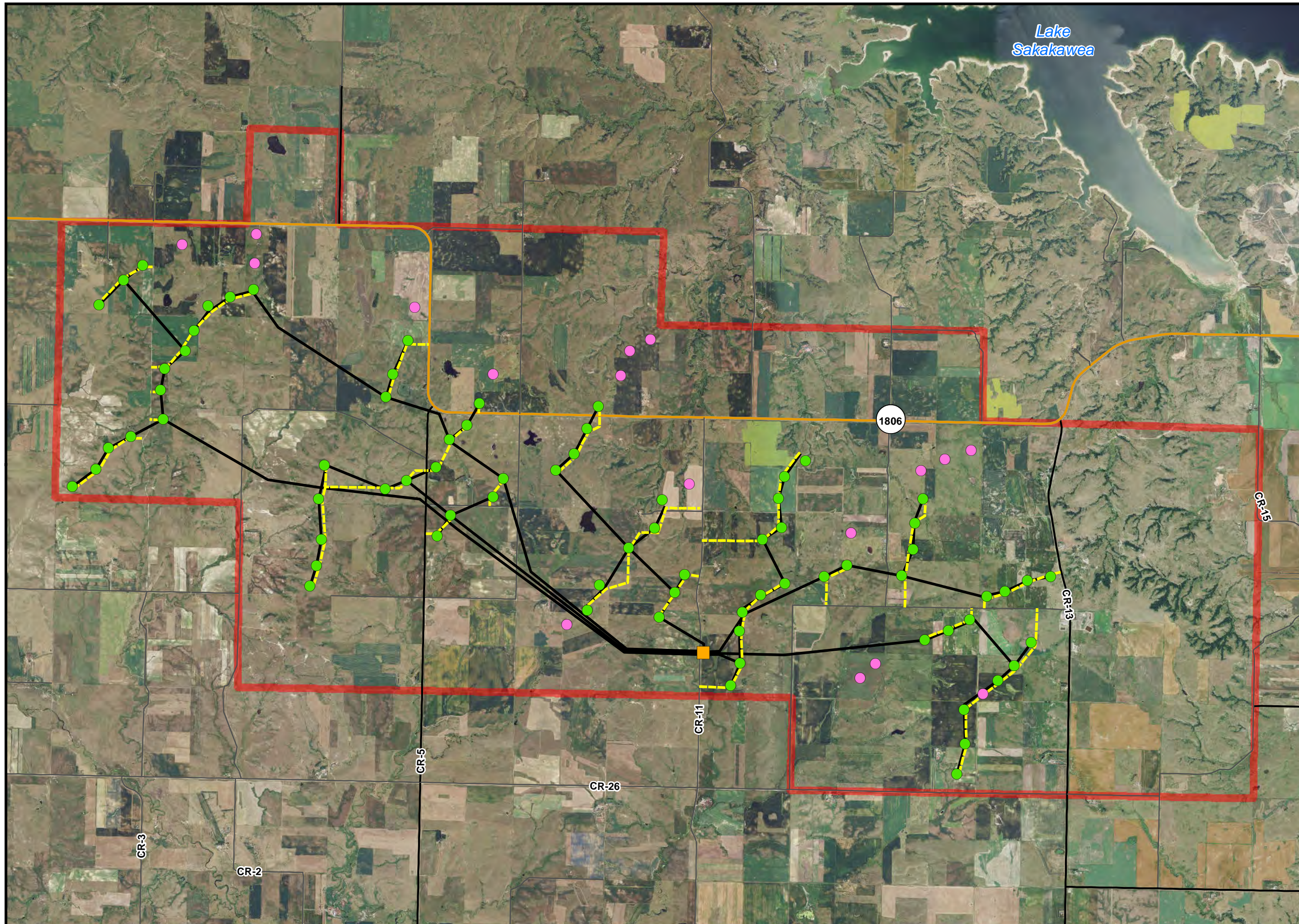
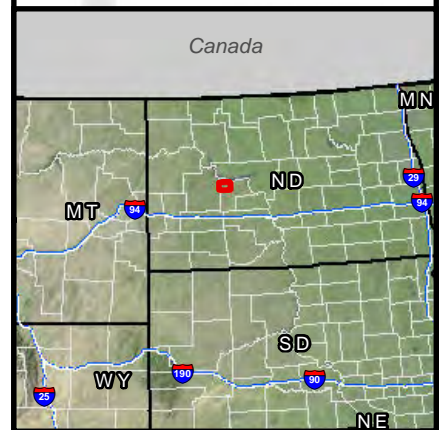
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Certificate of  
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Figure 5A  
Project Layout  
Siemens 2.3-108

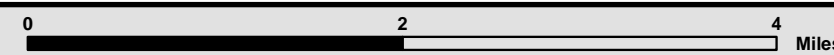
Mercer County, ND  
August 2014

- Project Area
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- Major Collector Road
- Other County Road

\*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



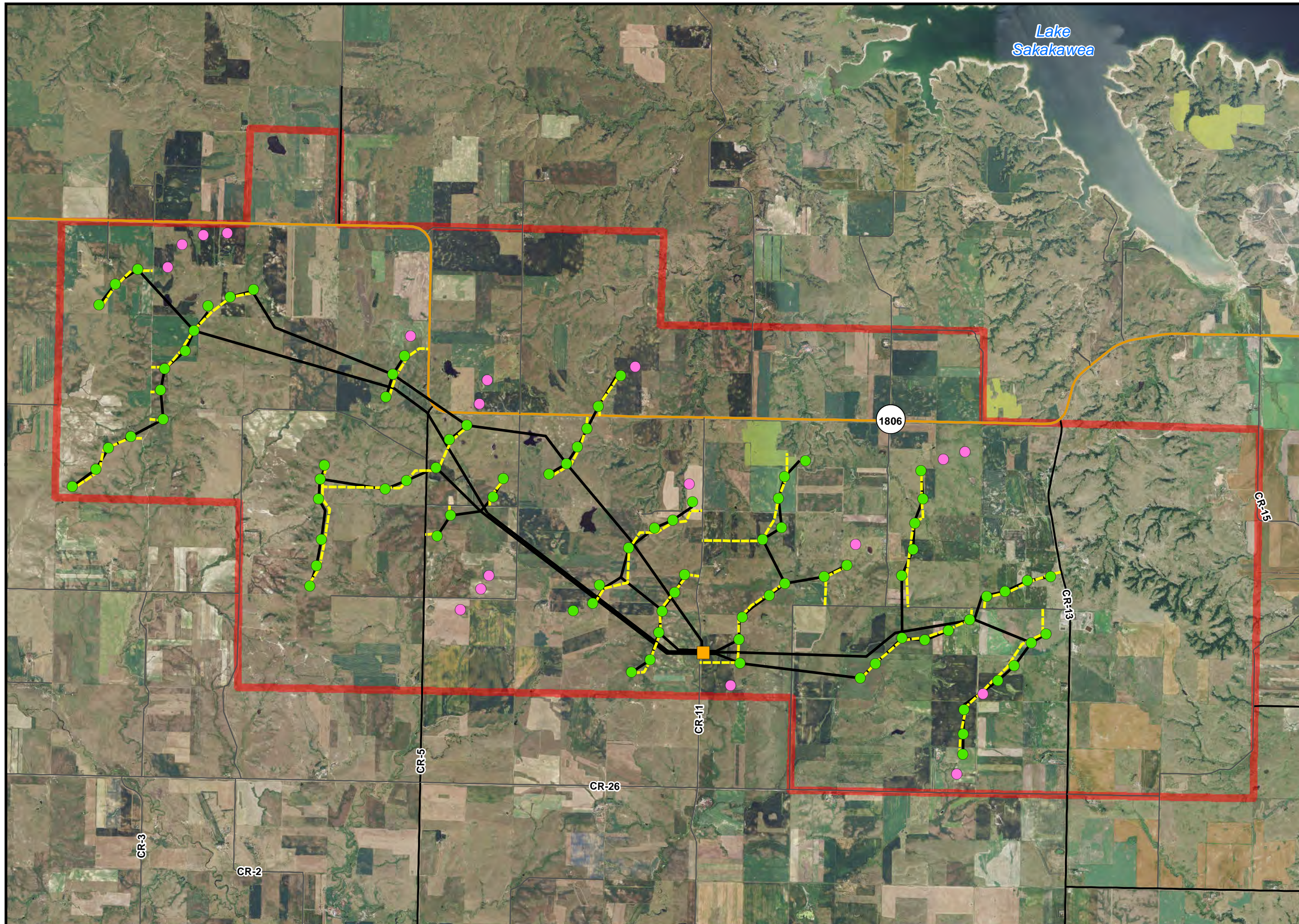
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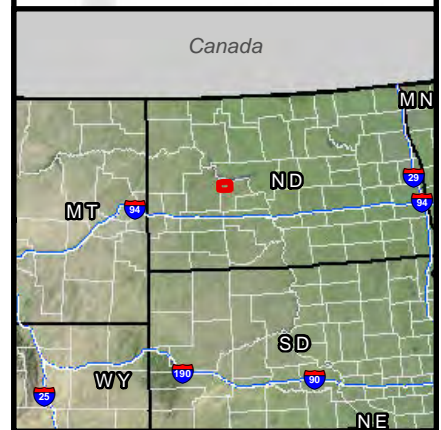
Figure 5B  
Project Layout  
Vestas V-100

Mercer County, ND  
August 2014

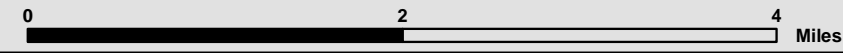


- Project Area
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road

\*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



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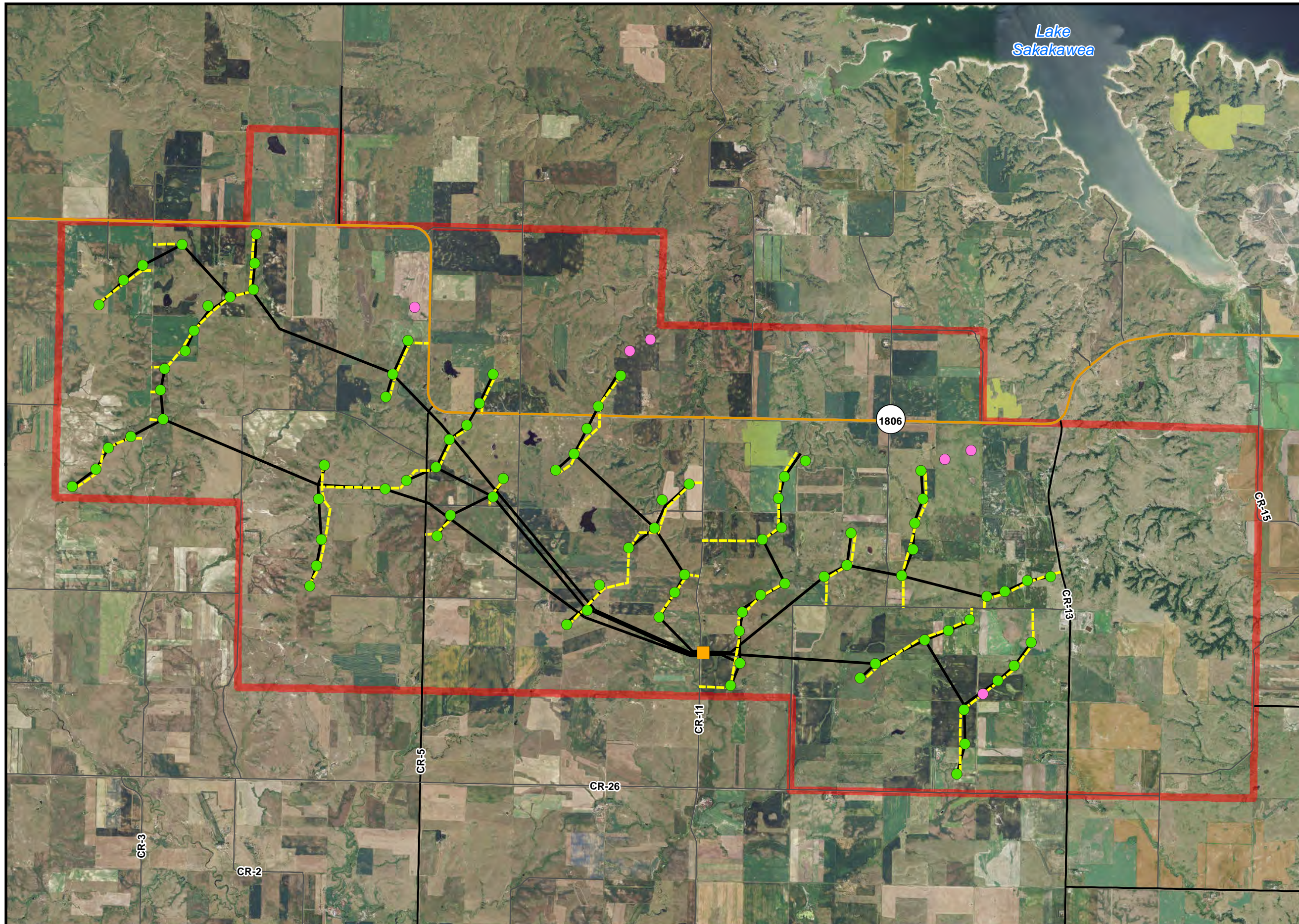
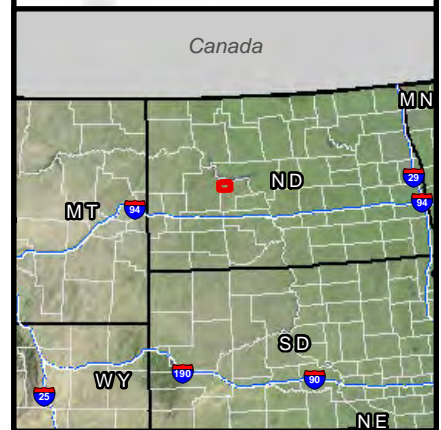
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Site Compatibility

Figure 5C  
Project Layout  
Vestas V-110

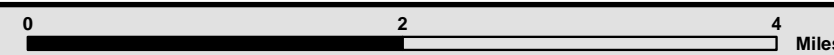
Mercer County, ND  
August 2014

- Project Area
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road

\*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



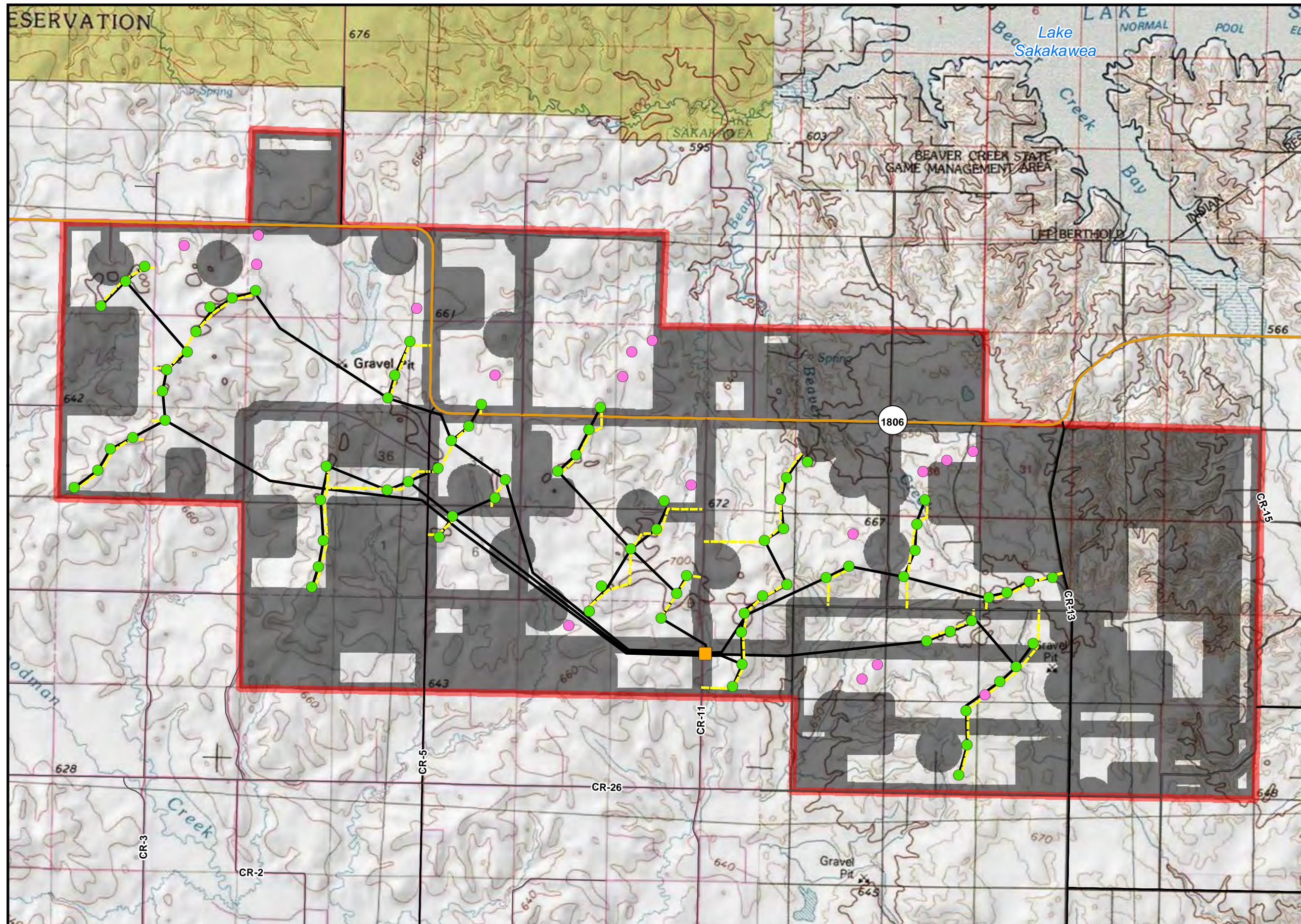
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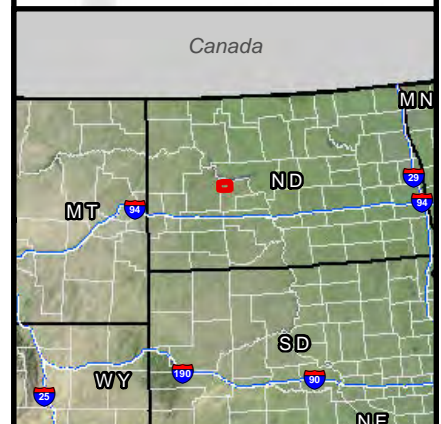
Figure 6A  
Exclusion and  
Avoidance Areas  
Siemens 2.3-108

Mercer County, ND  
August 2014



- Project Area
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Exclusion Area

\*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



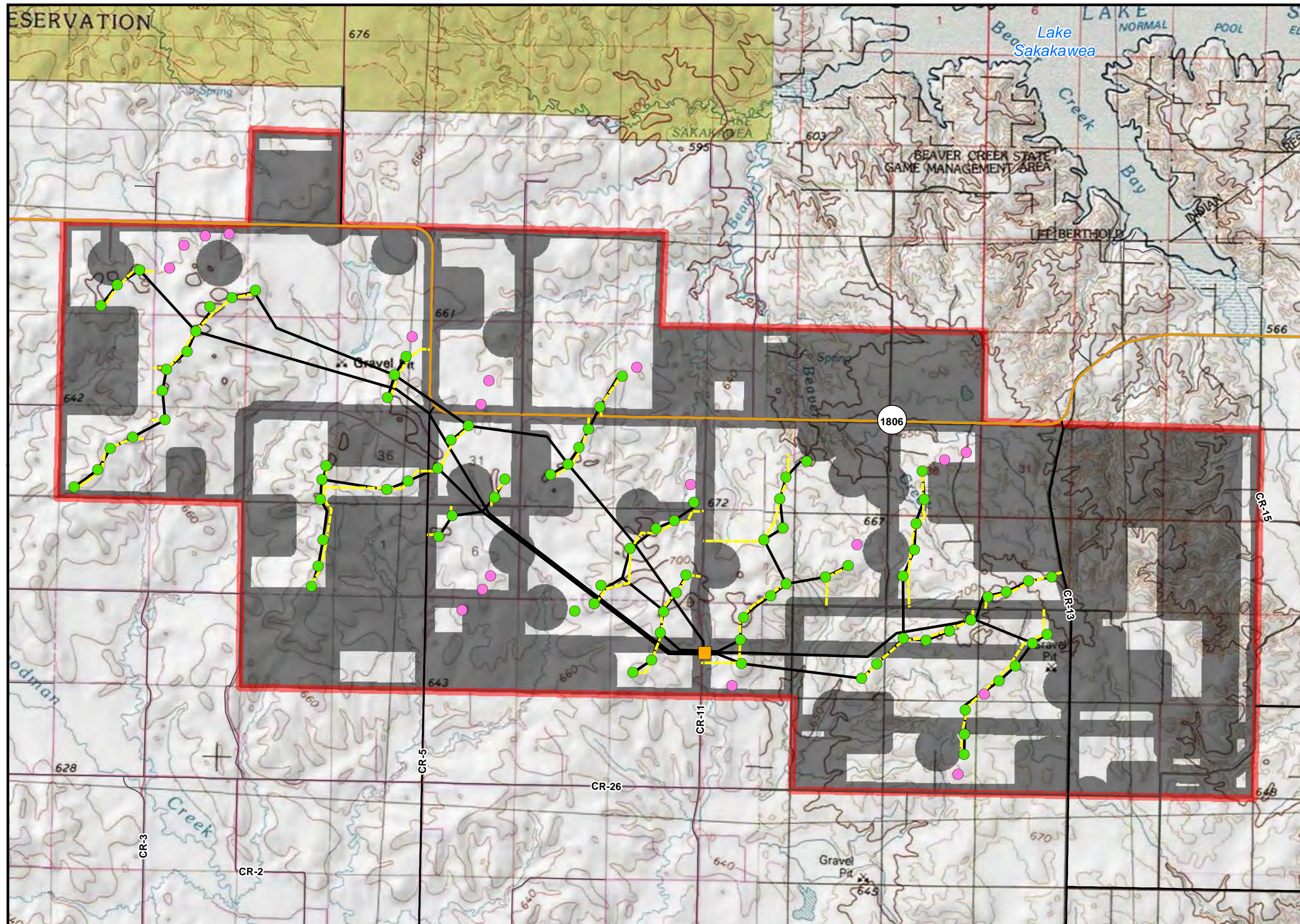
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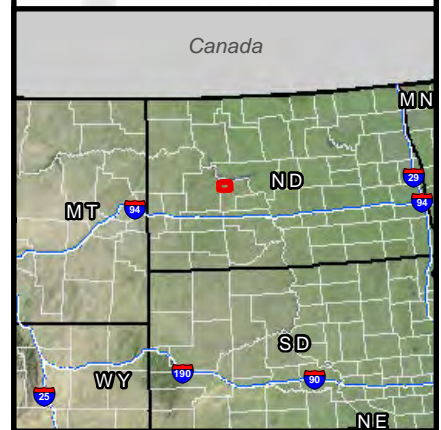
Figure 6B  
Exclusion and  
Avoidance Areas  
Vestas V-100

Mercer County, ND  
August 2014

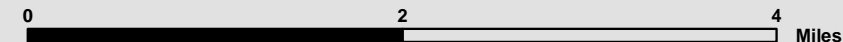


- Project
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Exclusion

\*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



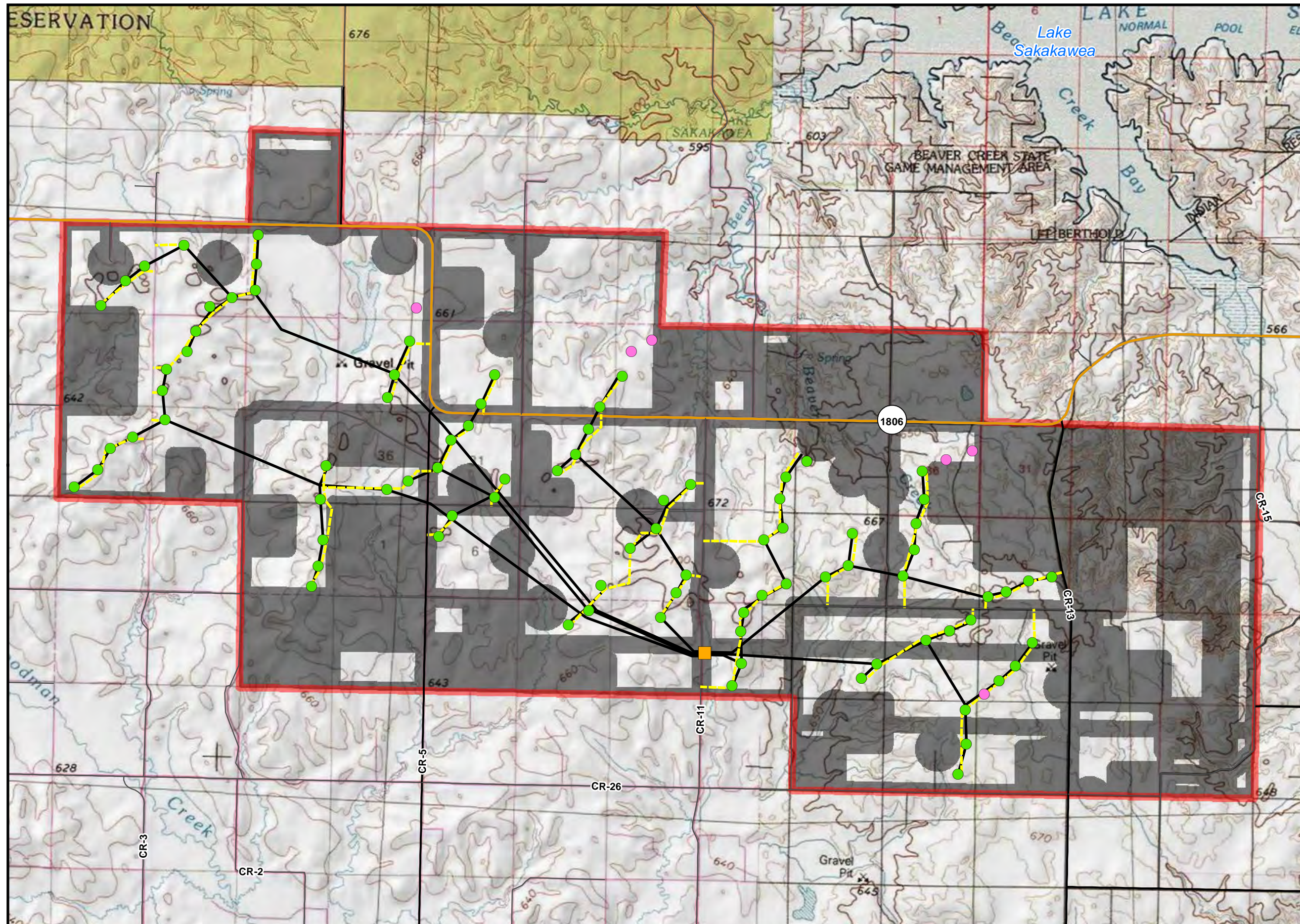
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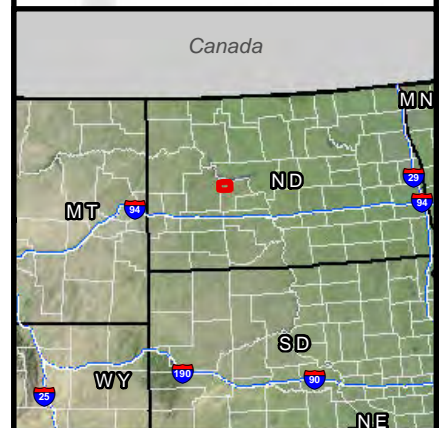
Figure 6C  
Exclusion and  
Avoidance Areas  
Vestas V-110

Mercer County, ND  
August 2014



- Project
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Exclusion

\*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



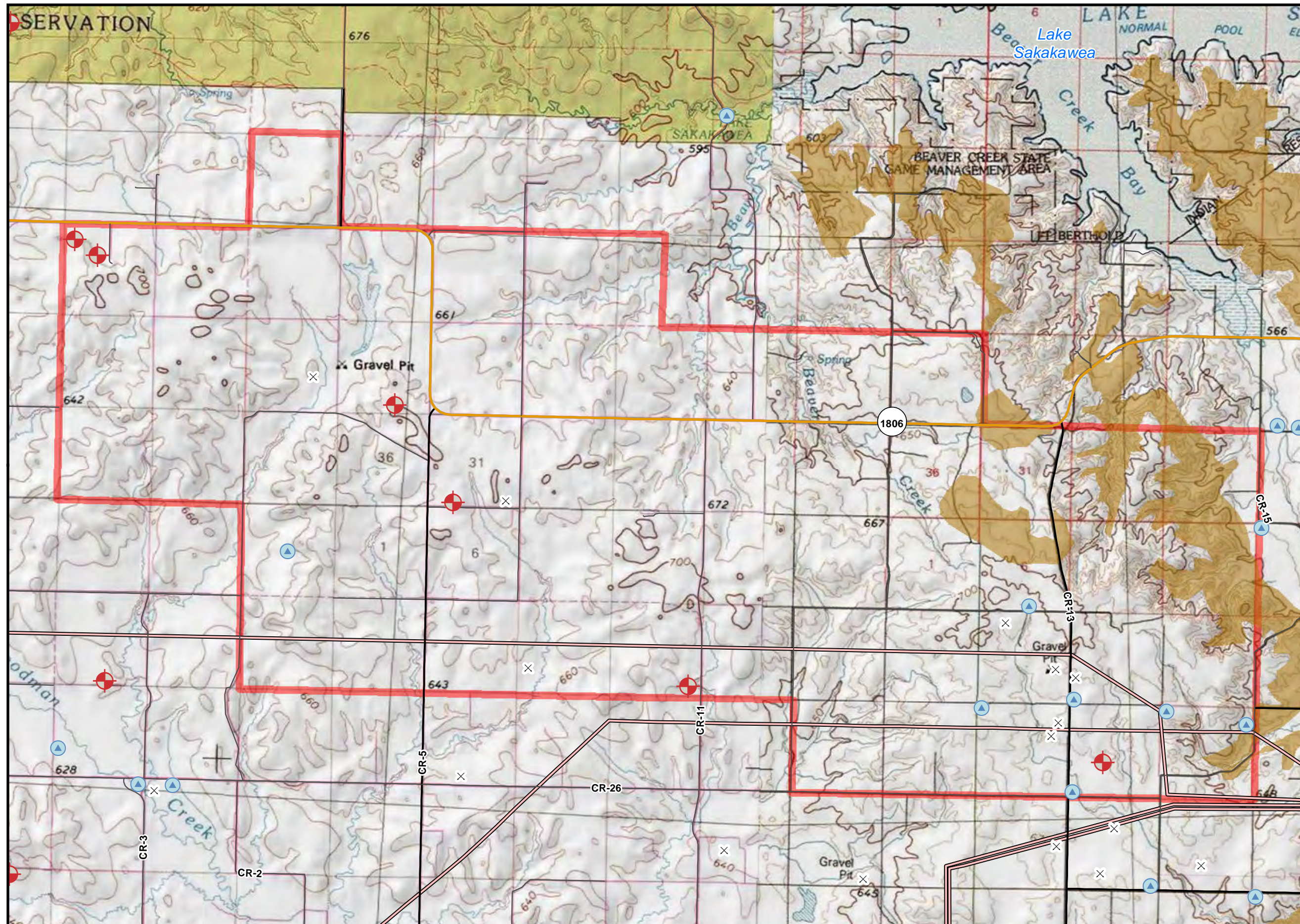
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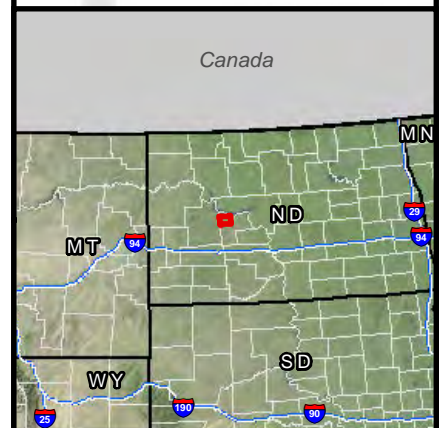
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Figure 7  
Geology and Mineral Resources

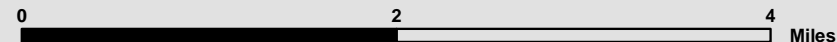
Mercer County, ND  
August 2014



-  Project Area
-  Oil/Gas Well
-  Gravel Pit
-  Well Site
-  Economic Coal Deposit
-  Existing Transmission Line (Over 230 kV)
-  State Highway
-  County Major Collector Road
-  Other County Road



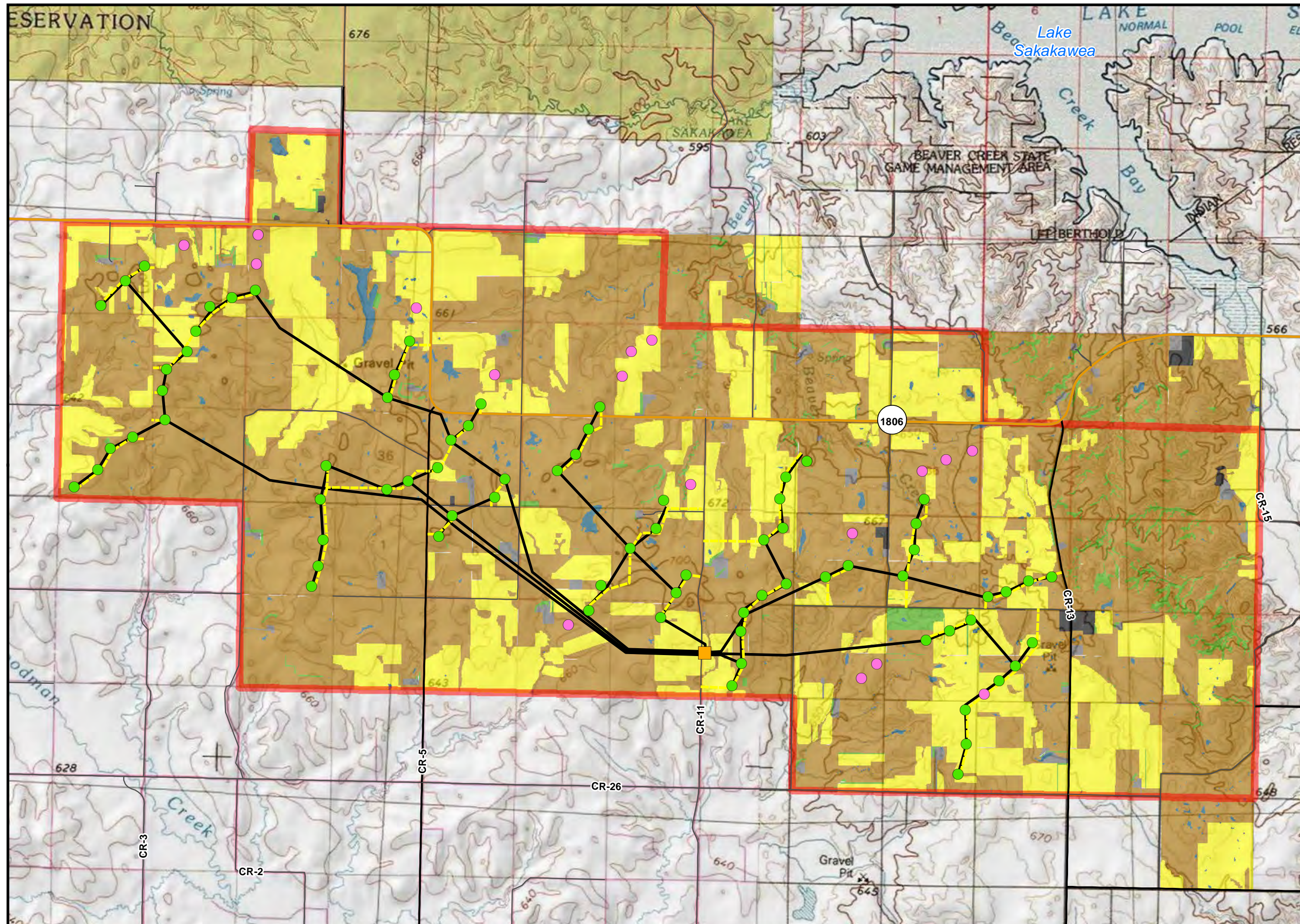
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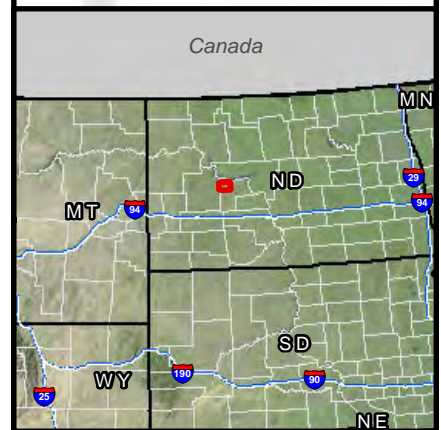
Figure 8A  
WEST Land Cover Map  
Siemens 2.3-108

Mercer County, ND  
August 2014

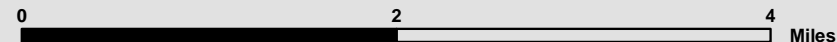


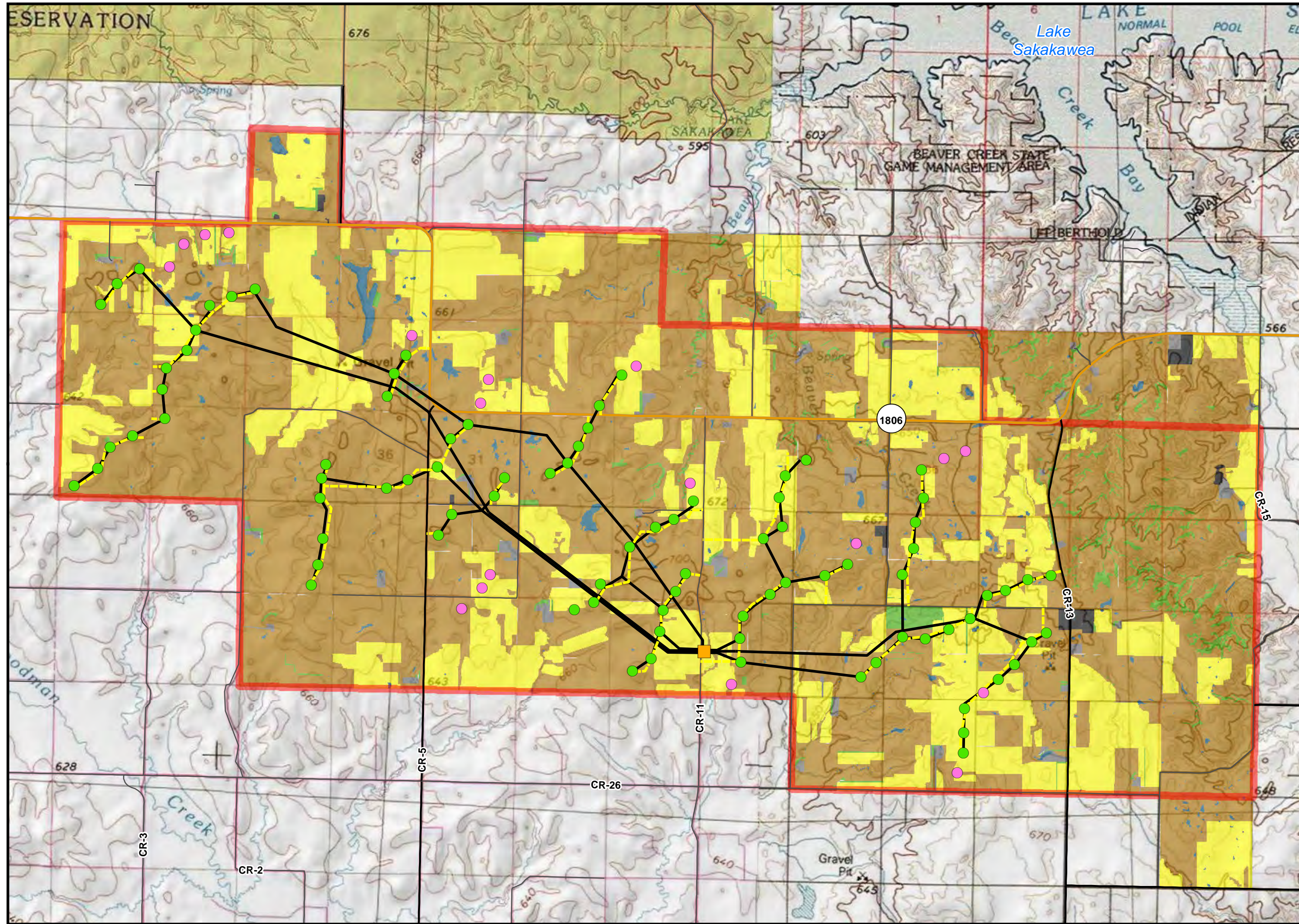
- Project
  - Proposed Substation
  - Turbine Location\*
  - Alternate Turbine Location\*
  - Approximate Underground Collection System Routing
  - Approximate Access Road Routing
  - State Highway
  - County Major Collector Road
  - Other County Road
- Land Cover**
- Agriculture
  - Developed
  - Farmsteads/Rural Homes
  - Grassland
  - Shrubs/Trees
  - Wetlands

\*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



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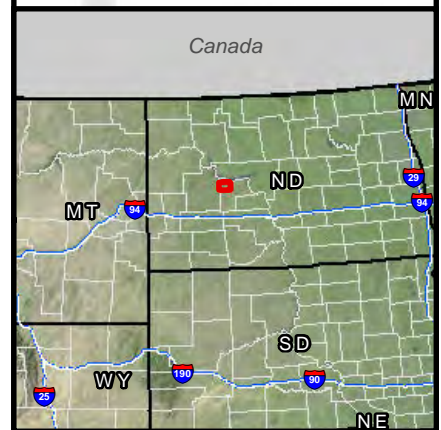
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Figure 8B  
 WEST Land Cover Map  
 Vestas V-100

Mercer County, ND  
 August 2014

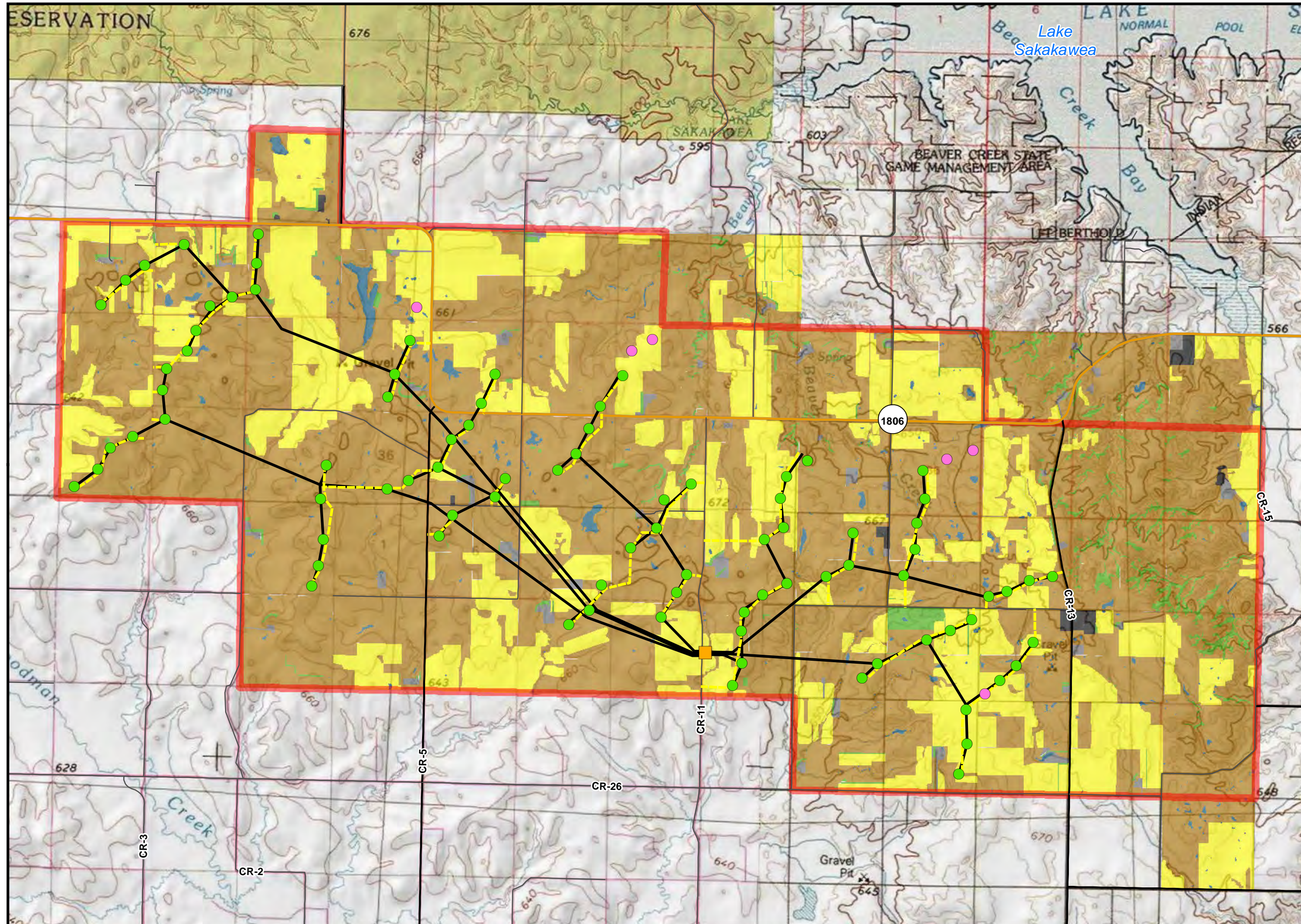
- Project
  - Proposed Substation
  - Turbine Location\*
  - Alternate Turbine Location\*
  - Approximate Underground Collection System Routing
  - Approximate Access Road Routing
  - State Highway
  - County Major Collector Road
  - Other County Road
- Land Cover**
- Agriculture
  - Developed
  - Farmsteads/Rural Homes
  - Grassland
  - Shrubs/Trees
  - Wetlands

\*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



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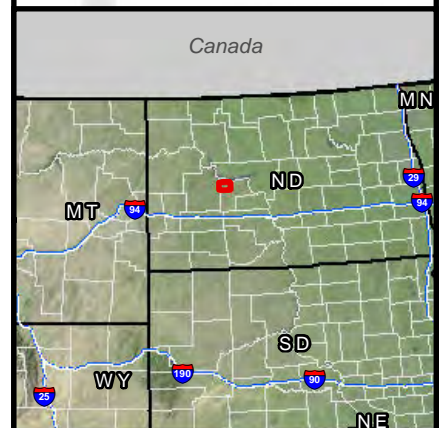
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Figure 8C  
WEST Land Cover Map  
Vestas V-110

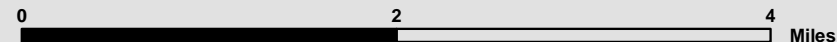
Mercer County, ND  
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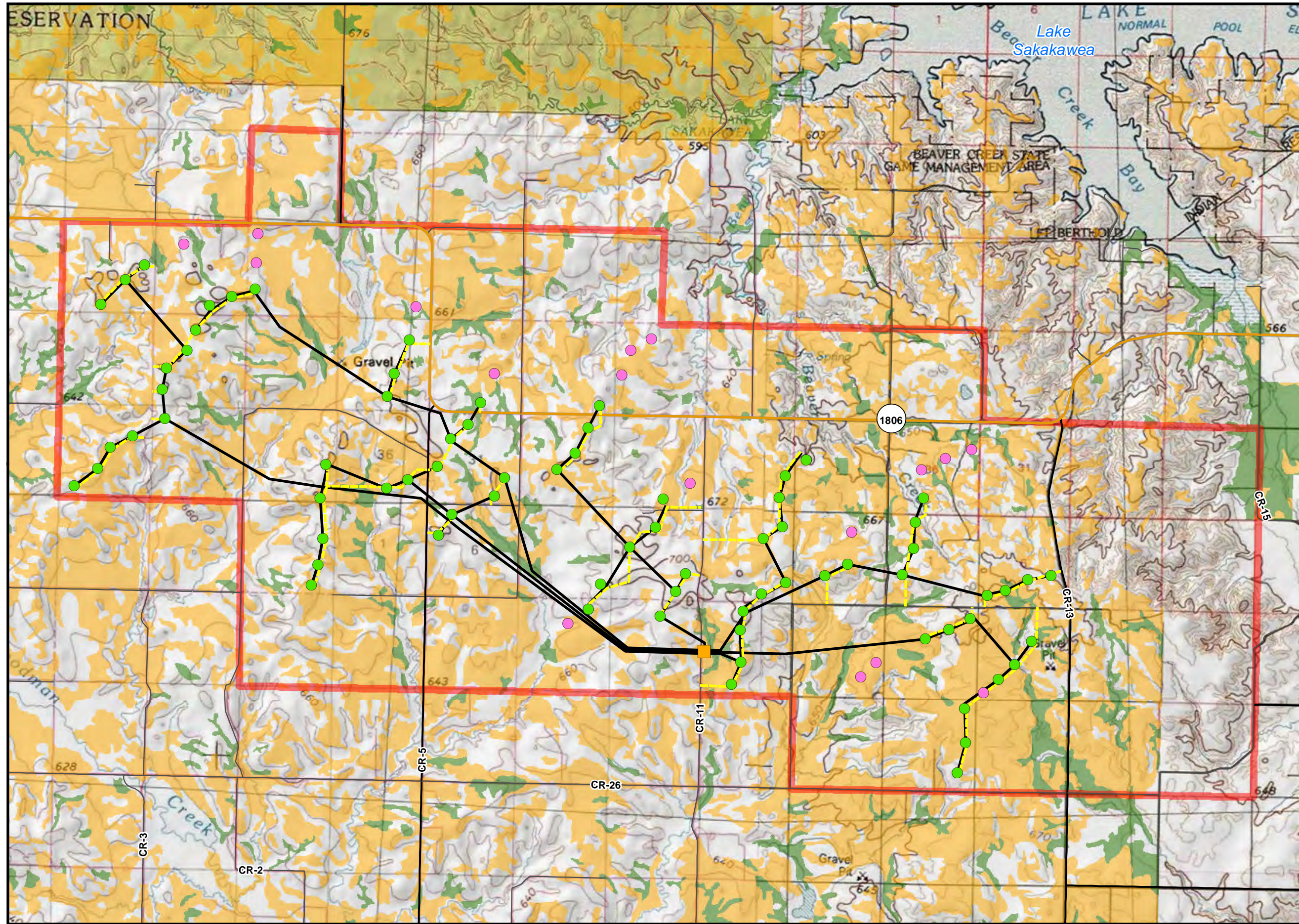
- Project
  - Proposed Substation
  - Turbine Location\*
  - Alternate Turbine Location\*
  - Approximate Underground Collection System Routing
  - Approximate Access Road Routing
  - State Highway
  - County Major Collector Road
  - Other County Road
- Land Cover**
- Agriculture
  - Developed
  - Farmsteads/Rural Homes
  - Grassland
  - Shrubs/Trees
  - Wetlands

\*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



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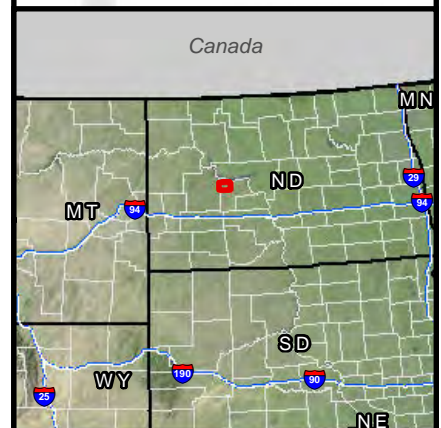
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Figure 9A  
Farmland Soils  
Siemens 2.3-108

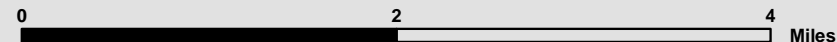
Mercer County, ND  
August 2014

- Project
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Prime Farmland
- Farmland of Statewide Importance

\*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



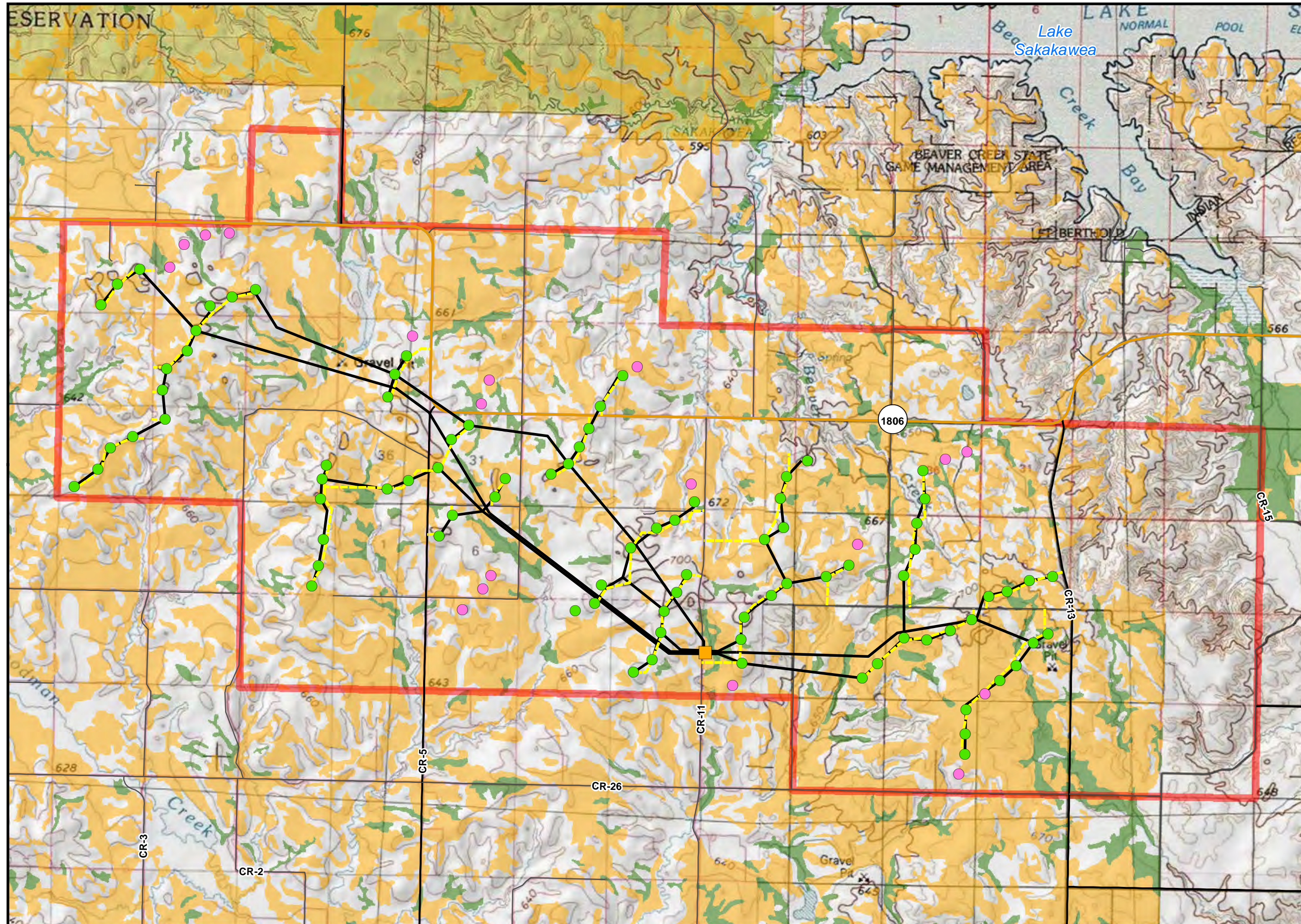
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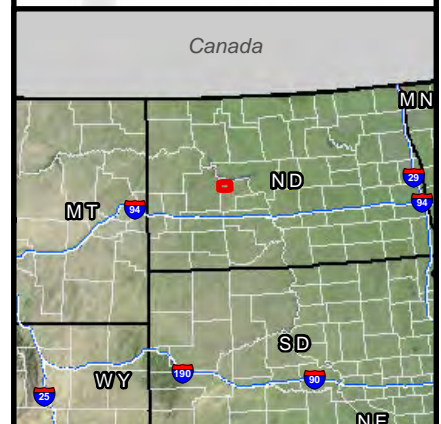
Figure 9B  
Farmland Soils  
Vestas V-100

Mercer County, ND  
August 2014



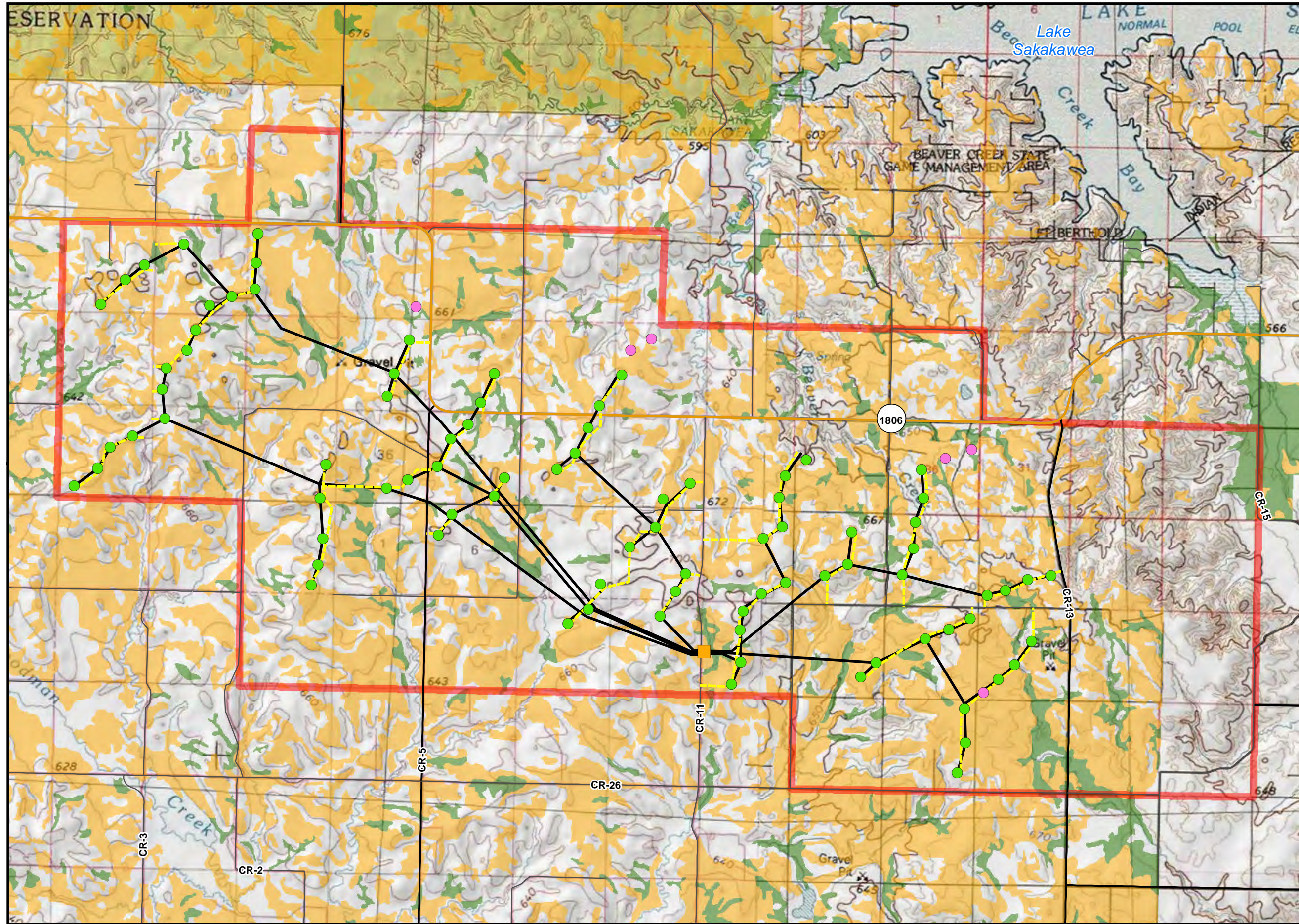
- Project
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Prime Farmland
- Farmland of Statewide Importance

\*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



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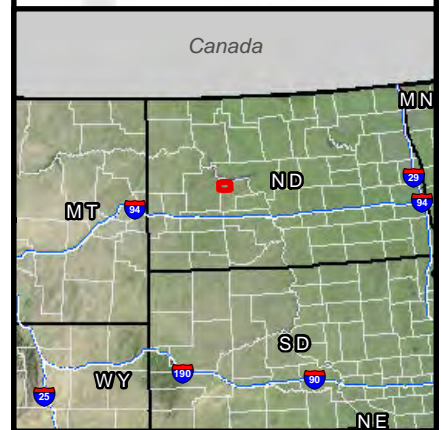
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Figure 9V  
Farmland Soils  
Vestas V-110

Mercer County, ND  
August 2014

- Project
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Prime Farmland
- Farmland of Statewide Importance

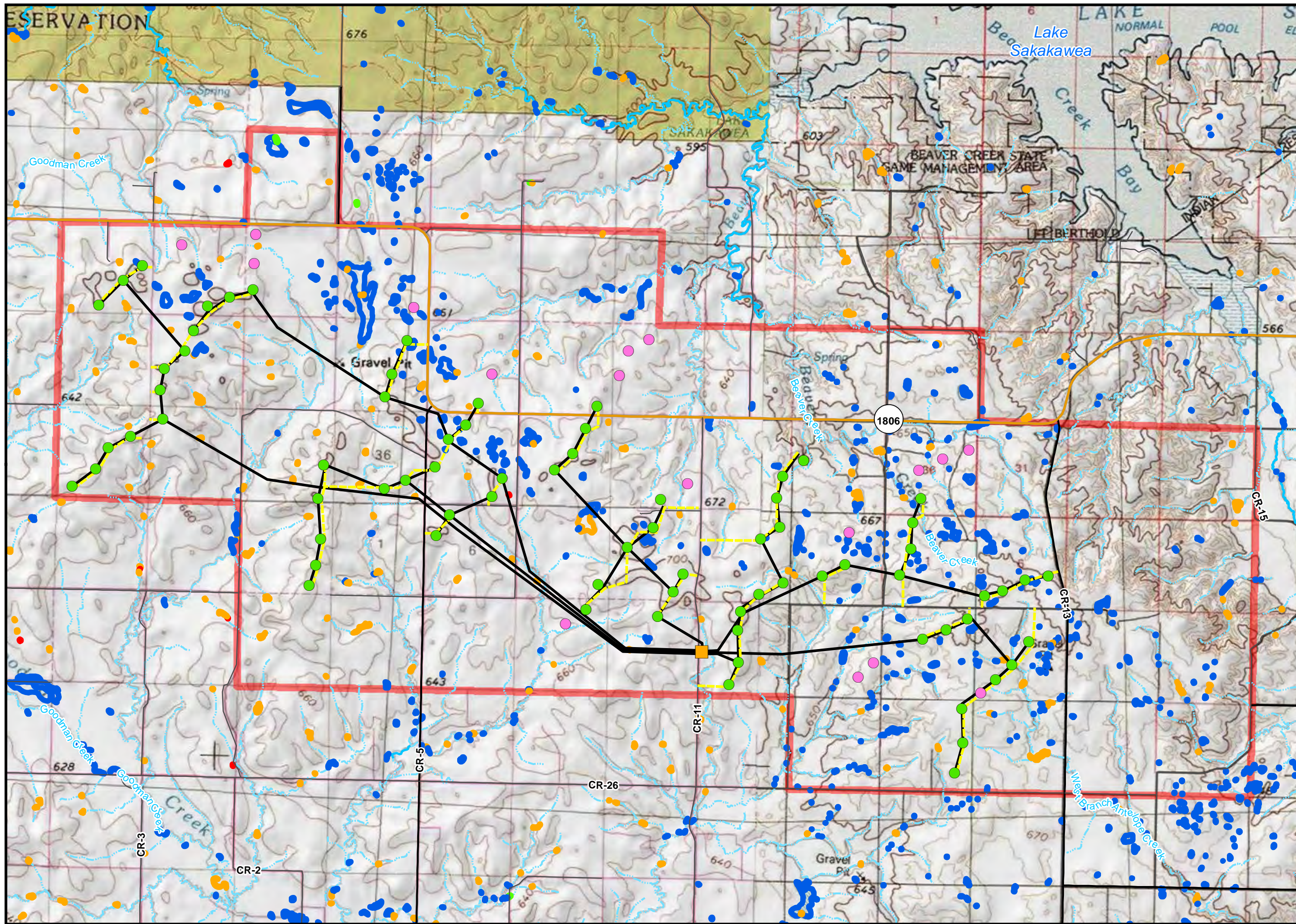
\*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



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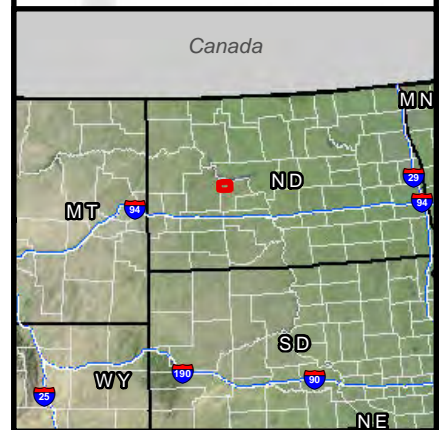
Figure 10A  
Wetlands and  
Surface Waters  
Siemens 2.3-108

Mercer County, ND  
August 2014



- Project Area
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- NHD Stream Type**
- Perennial Stream
- Intermittent Stream
- NWI Wetland Type**
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other Freshwater Wetland

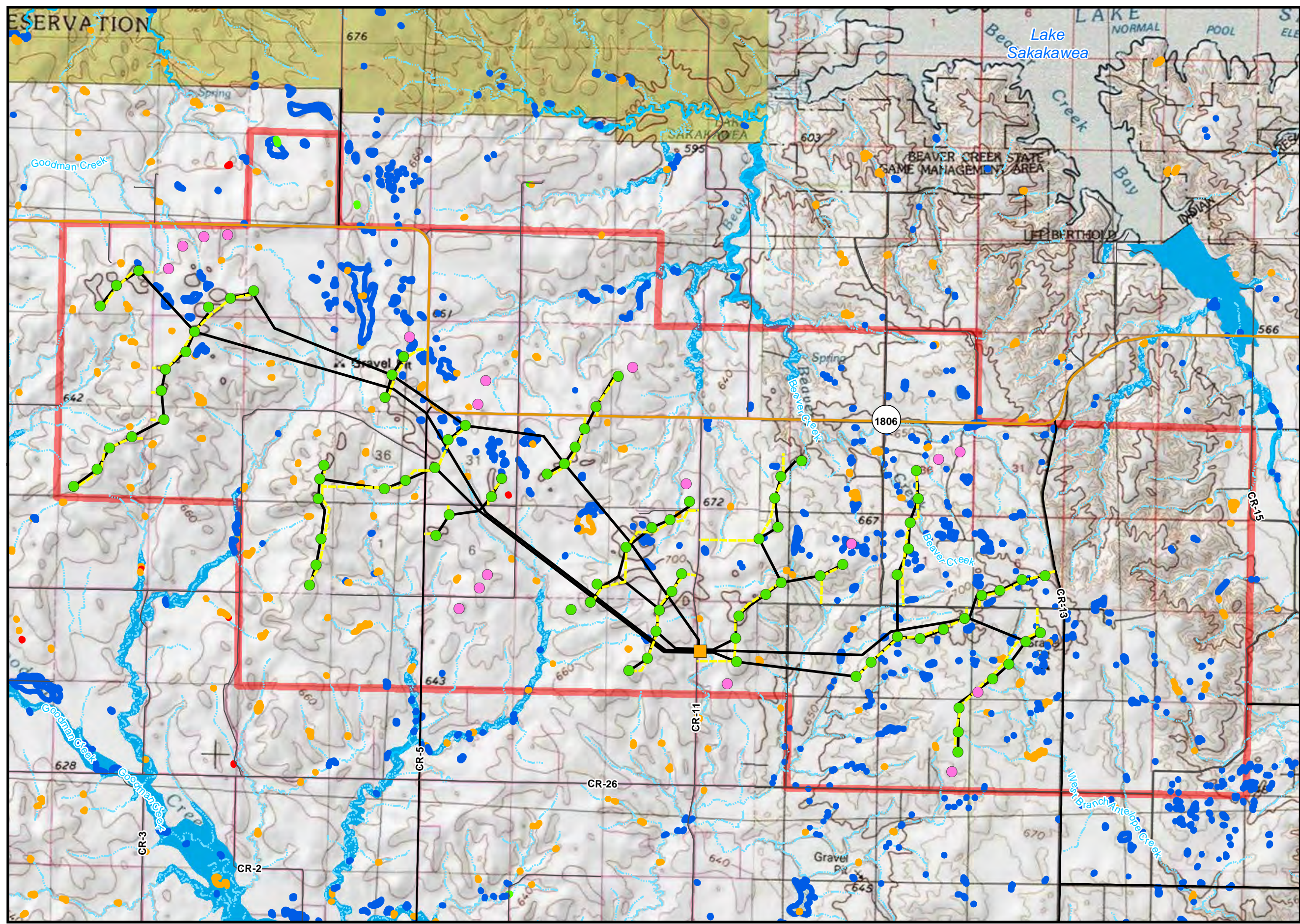
\*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



Antelope Hills Wind Project  
Application for North Dakota  
Certificate of  
Site Compatibility

Figure 10B  
Wetlands and  
Surface Waters  
Vestas V-100

Mercer County, ND  
August 2014



- Project
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- 100-year Flood Zone
- NHD Stream Type**
- Perennial Stream
- Intermittent Stream
- NWI Wetland Type**
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other Freshwater Wetland

\*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



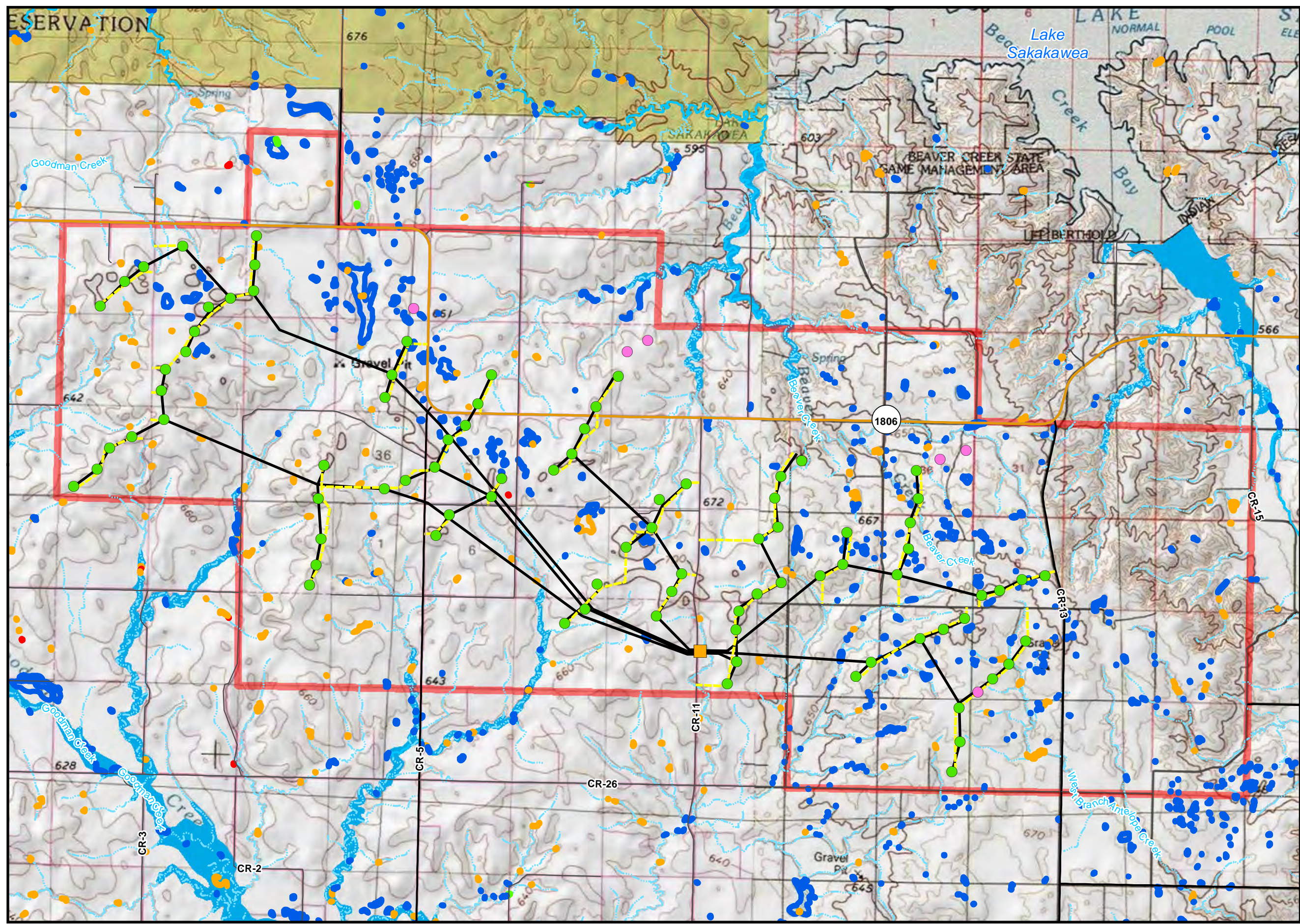
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Antelope Hills Wind Project  
Application for North Dakota  
Certificate of  
Site Compatibility

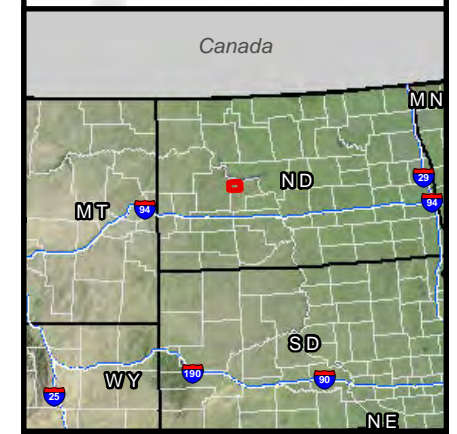
Figure 10C  
Wetlands and  
Surface Waters  
Vestas V-110

Mercer County, ND  
August 2014



- Project
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- 100-year Flood Zone
- NHD Stream Type**
- Perennial Stream
- Intermittent Stream
- NWI Wetland Type**
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other Freshwater Wetland

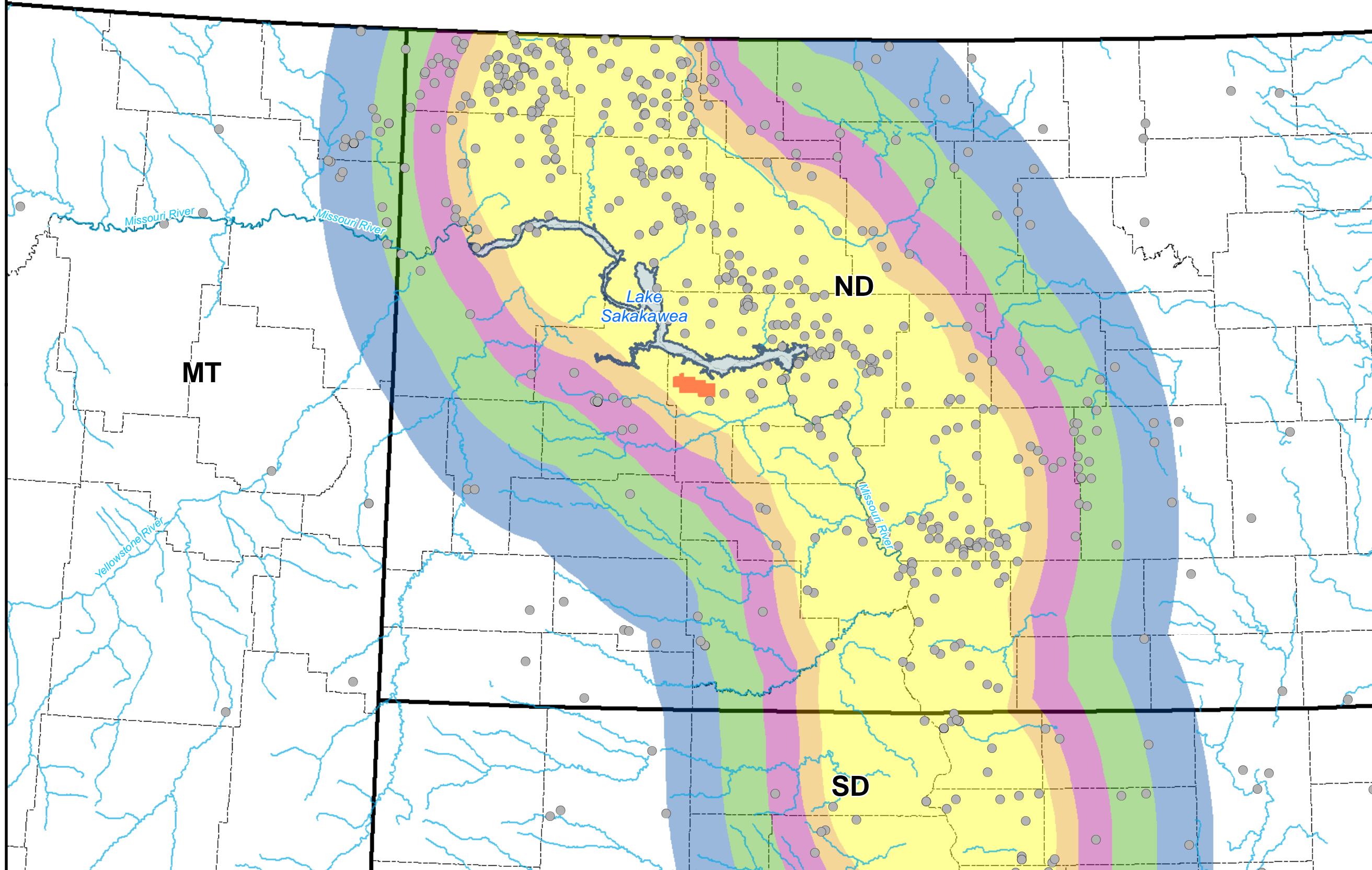
\*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



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






# CANADA



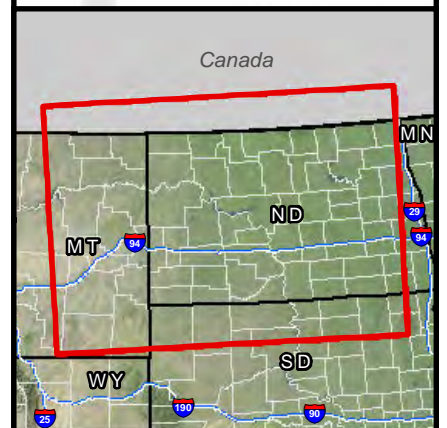
## Antelope Hills Wind Project Application for North Dakota Certificate of Site Compatibility

Figure 11  
Project Area with  
Whooping Crane  
Migration Map

Mercer County, ND  
August 2014

-  Project Area
  -  Confirmed Whooping Crane Sighting\*
  -  Stream or River
  -  Lake
  -  State Boundary
  -  County Boundary
- Percent of Sightings**
-  75%
  -  80%
  -  85%
  -  90%
  -  95%

\*Based on Fall 2010 data.



Antelope Hills Wind Project  
Application for North Dakota  
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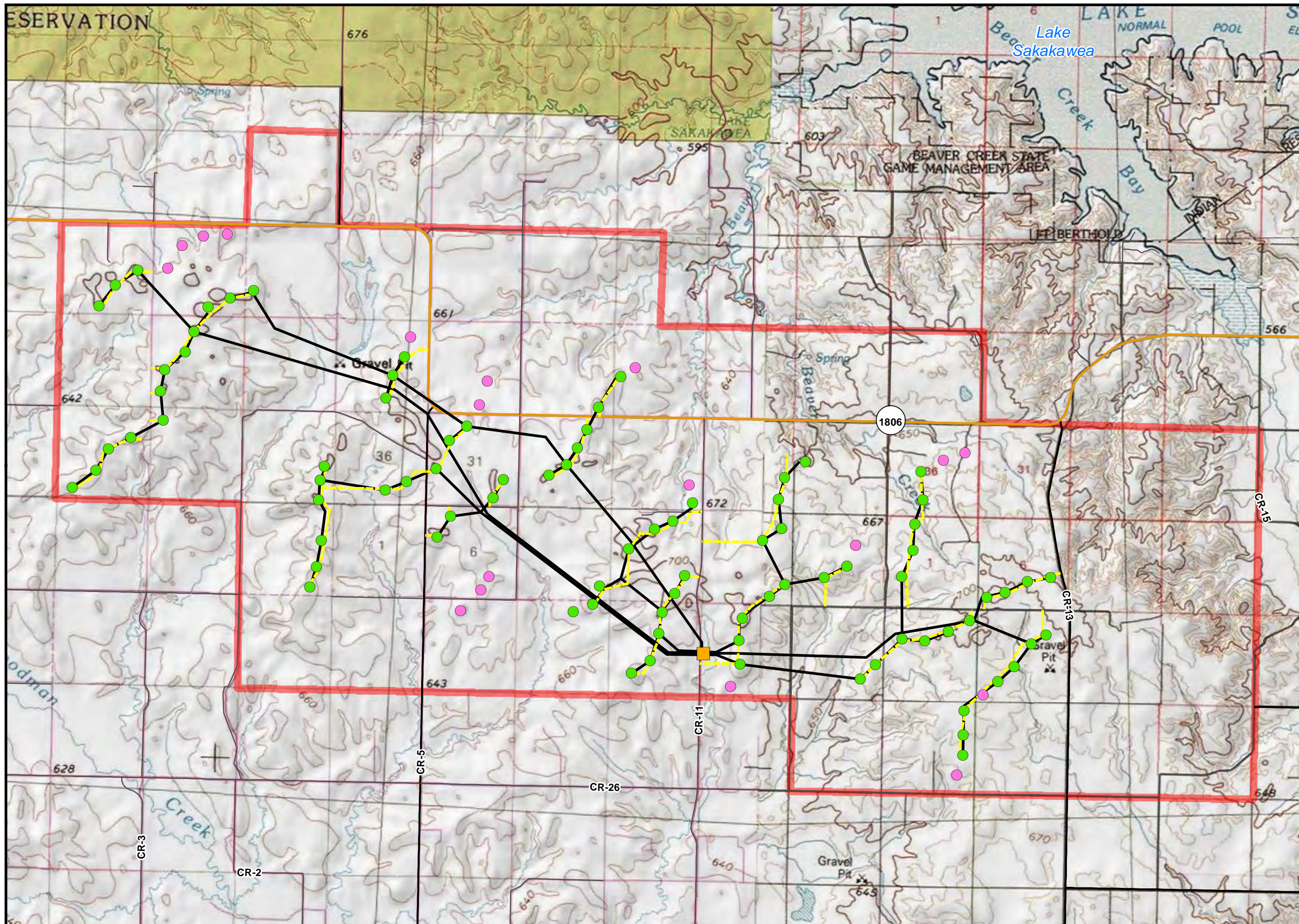
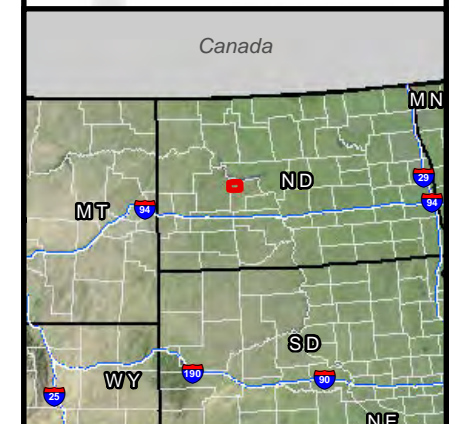
Figure 12A  
Shadow Flicker Hours  
Vestas V-100

Mercer County, ND  
August 2014

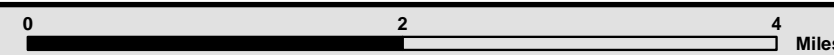
- Project Area
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road

Shadow Flicker  
Data Pending

\*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential Vestas turbine locations are included on this figure to account for alternate locations that may be used.



1:65,000 NAD\_1983\_StatePlane\_North\_Dakota\_South\_FIPS\_3302\_Feet



Antelope Hills Wind Project  
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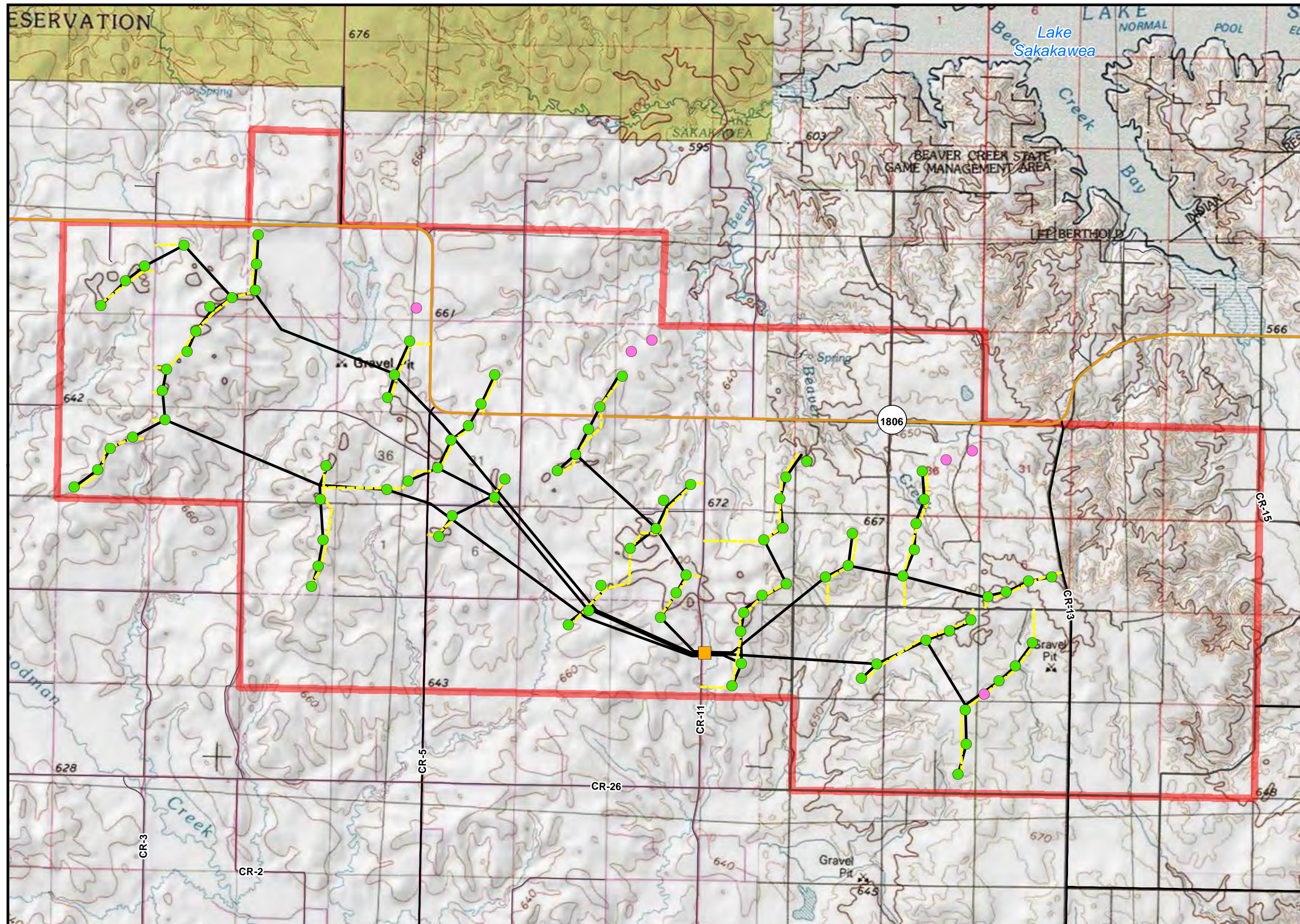
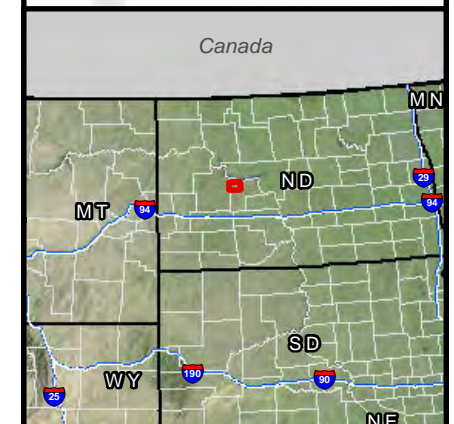
Figure 12B  
Shadow Flicker Hours  
Vestas V-110

Mercer County, ND  
April 2014

- Project
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road

Shadow Flicker  
Data Pending

\*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential Vestas turbine locations are included on this figure to account for alternate locations that may be used.



Antelope Hills Wind Project  
Application for North Dakota  
Certificate of  
Site Compatibility

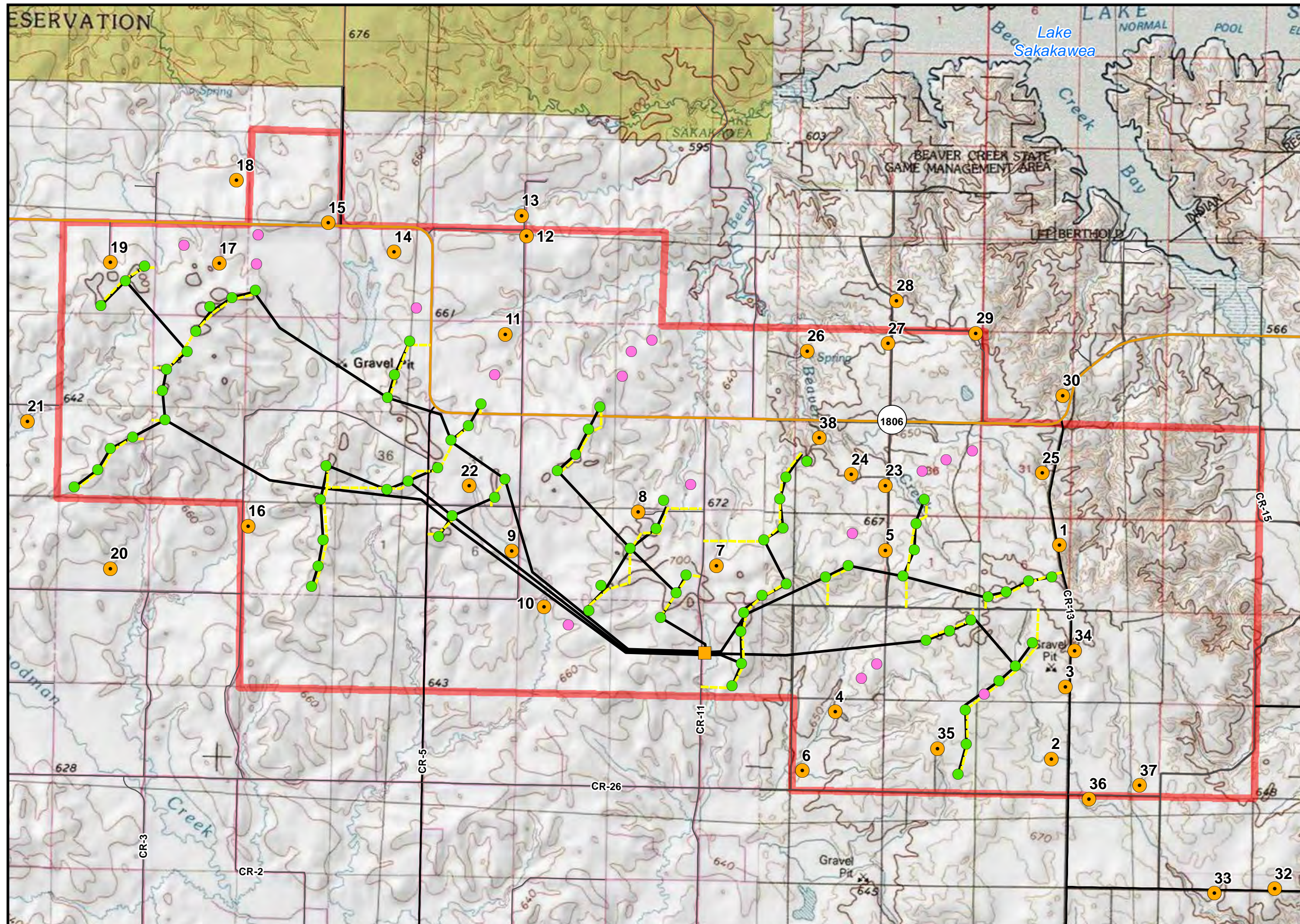
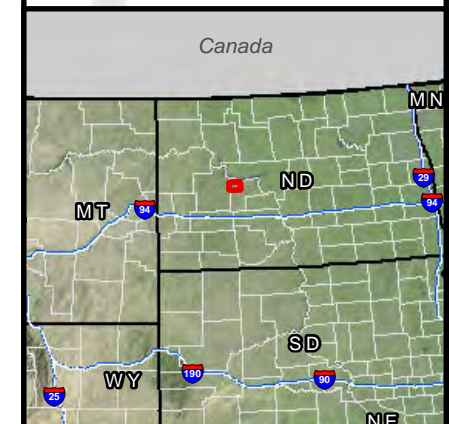
Figure 13A  
Turbine Sound Levels  
Greater Than 50dB  
Siemens

Mercer County, ND  
August 2014

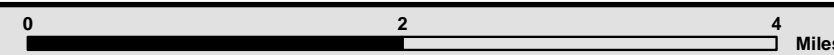
- Project Area
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Residence

Noise  
Data Pending

\*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.













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Antelope Hills Wind Project  
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Certificate of  
Site Compatibility

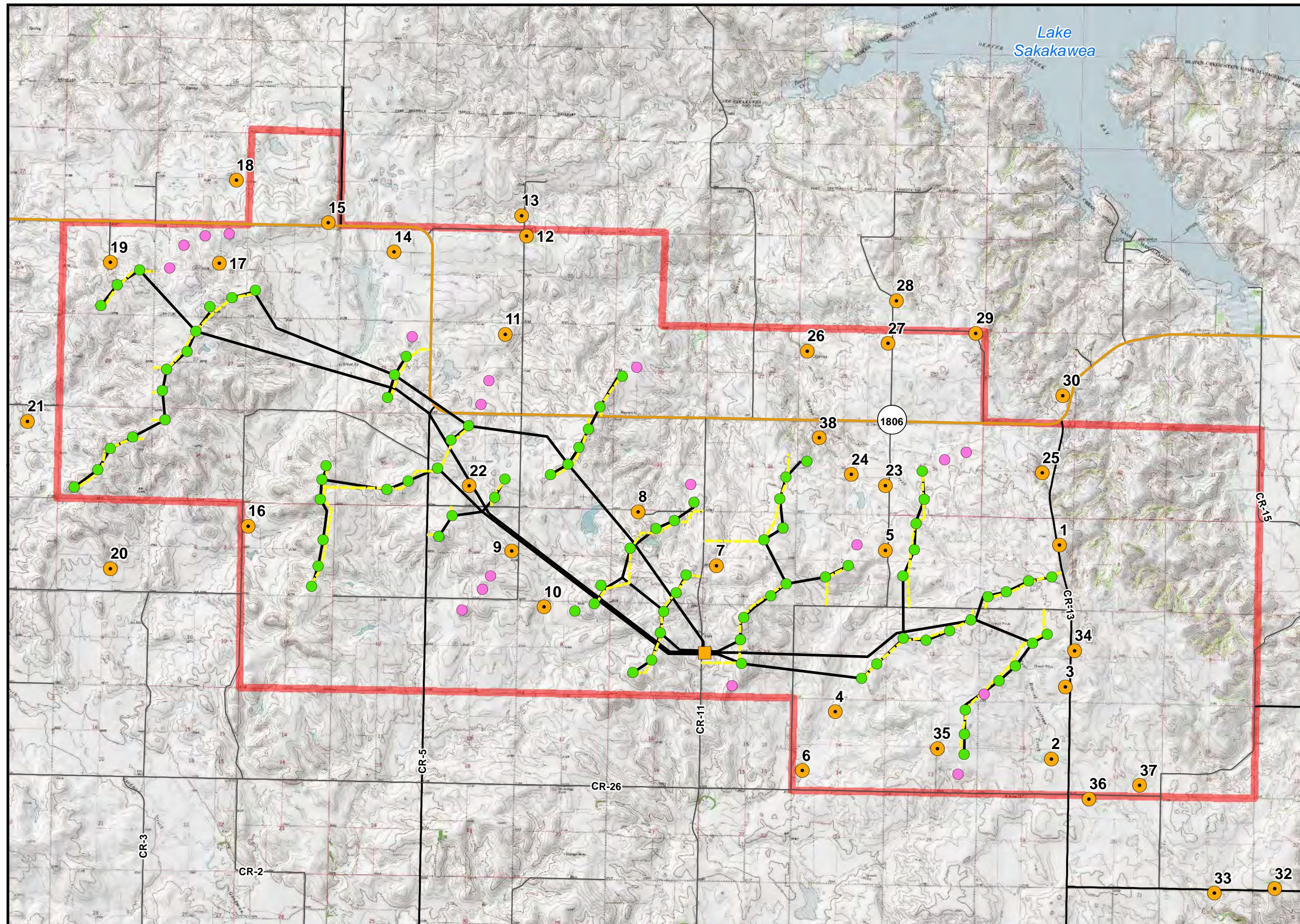
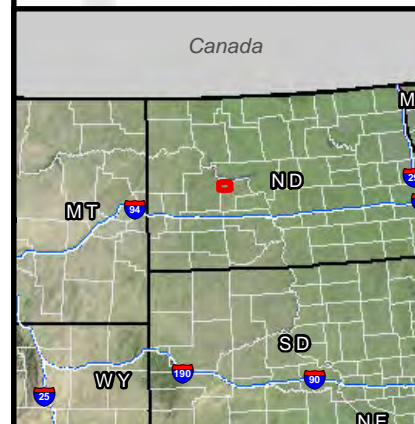
Figure 13B  
Turbine Sound Levels  
Greater Than 50dB  
Vestas V-100

Mercer County, ND  
August 2014

-  Project Area
-  Proposed Substation
-  Turbine Location\*
-  Alternate Turbine Location\*
-  Approximate Underground Collection System Routing
-  Approximate Access Road Routing
-  State Highway
-  County Major Collector Road
-  Other County Road
-  Residence

Noise  
Data Pending

\*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



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Application for North Dakota  
Certificate of  
Site Compatibility

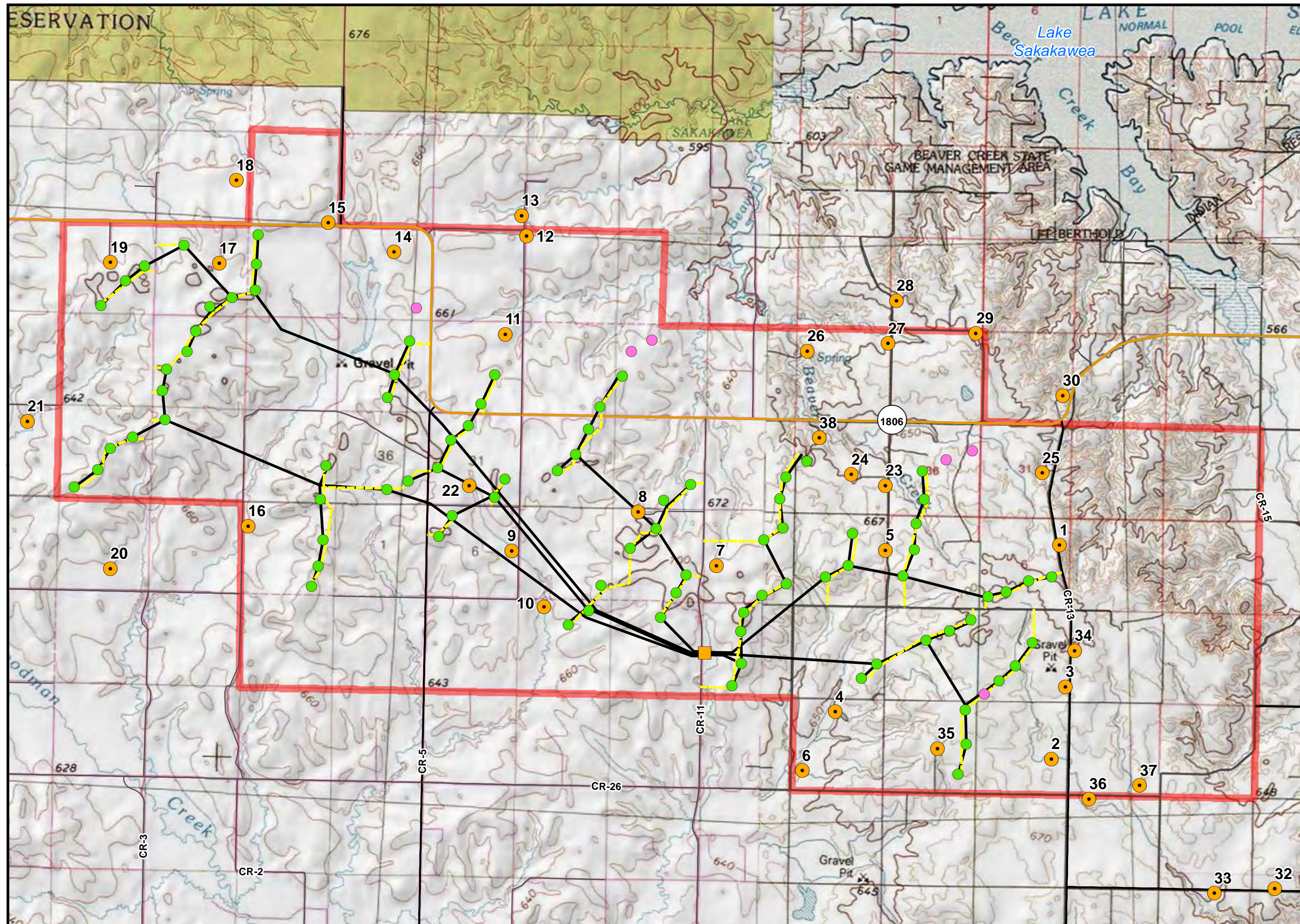
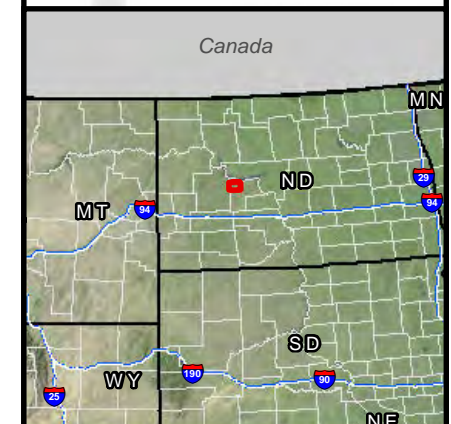
Figure 13C  
Turbine Sound Levels  
Greater Than 50dB  
Vestas V-110

Mercer County, ND  
August 2014

- Project Area
- Proposed Substation
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Residence

Noise  
Data Pending

\*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



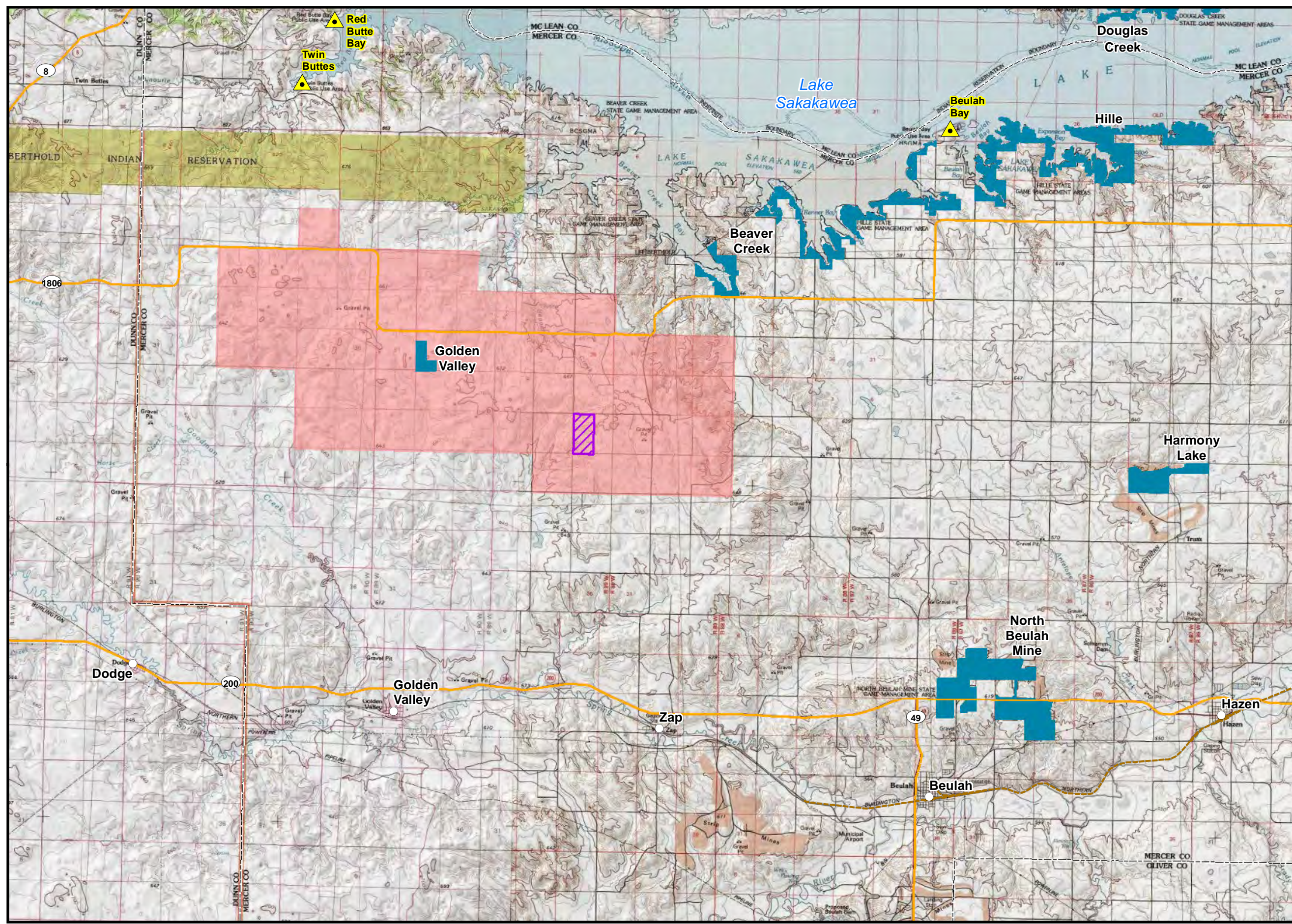
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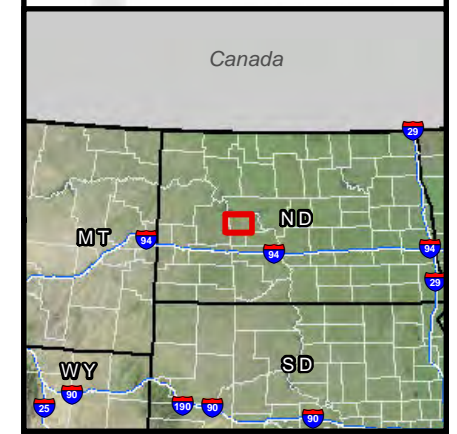
Antelope Hills Wind Project  
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Site Compatibility

Figure 14  
Area Recreation  
Resources

Mercer County, ND  
August 2014

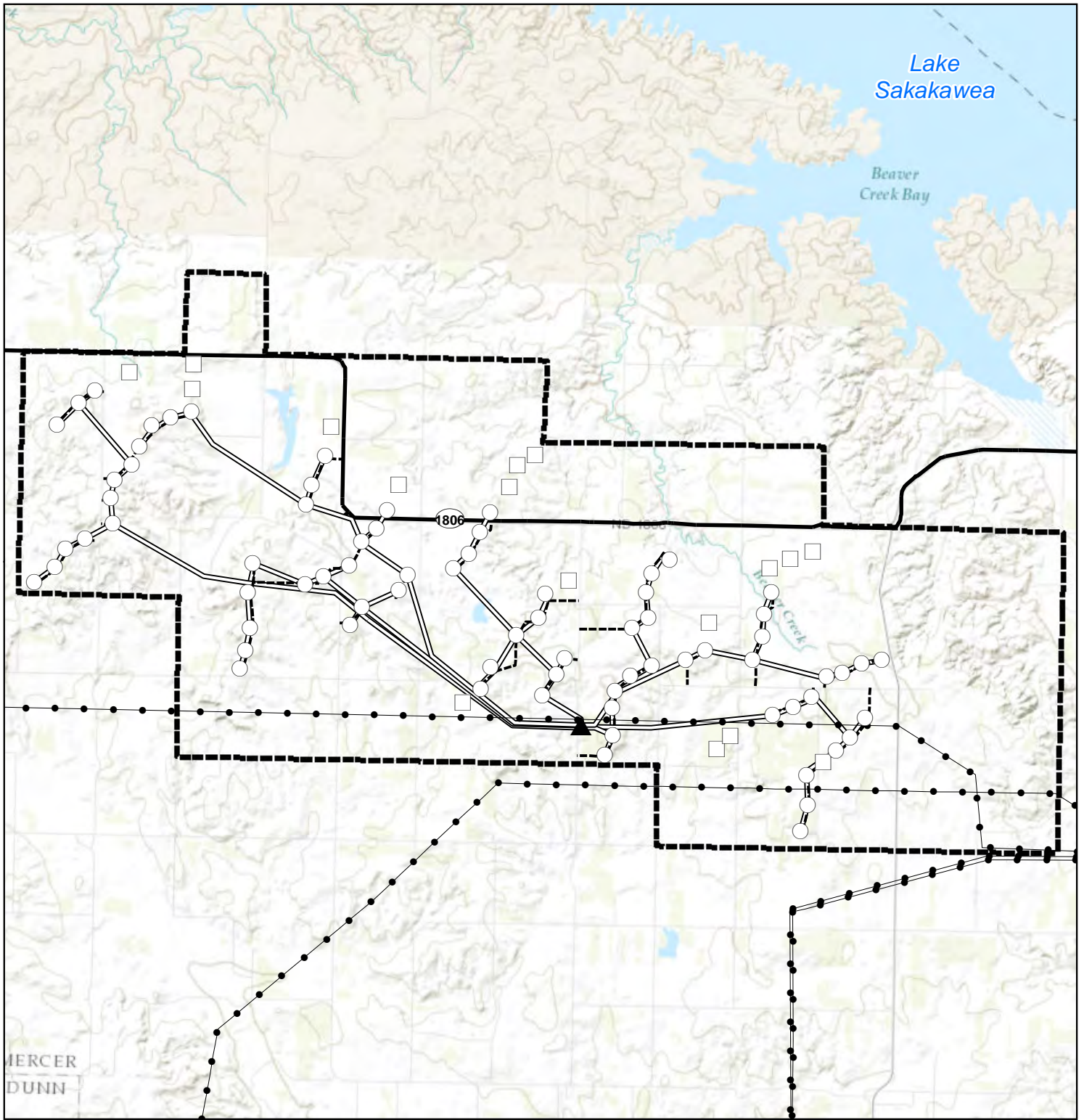


- Project Area
- PLOTS Land
- Wildlife Management Area
- Public Use Area
- County Boundary
- Railroad
- City/Town
- State Highway



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**Figure 14A**

Antelope Hills Wind Project  
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Project Layout  
Siemens 2.3-108

Mercer County, ND  
August 2014

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0 0.5 1 1.5 Miles

- Project Area
- Approximate Substation Location
- Turbine Location\*
- Alternate Turbine Location\*
- Approximate Access Road Routing
- Approximate Underground Collection System Routing
- State Highway
- Existing Transmission Line

\*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.

