

Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 1: Revised Project Site

December 2015

Notes: 1. Basemap: ESR ArcGIS Online "USA Topo Maps" Map Service.

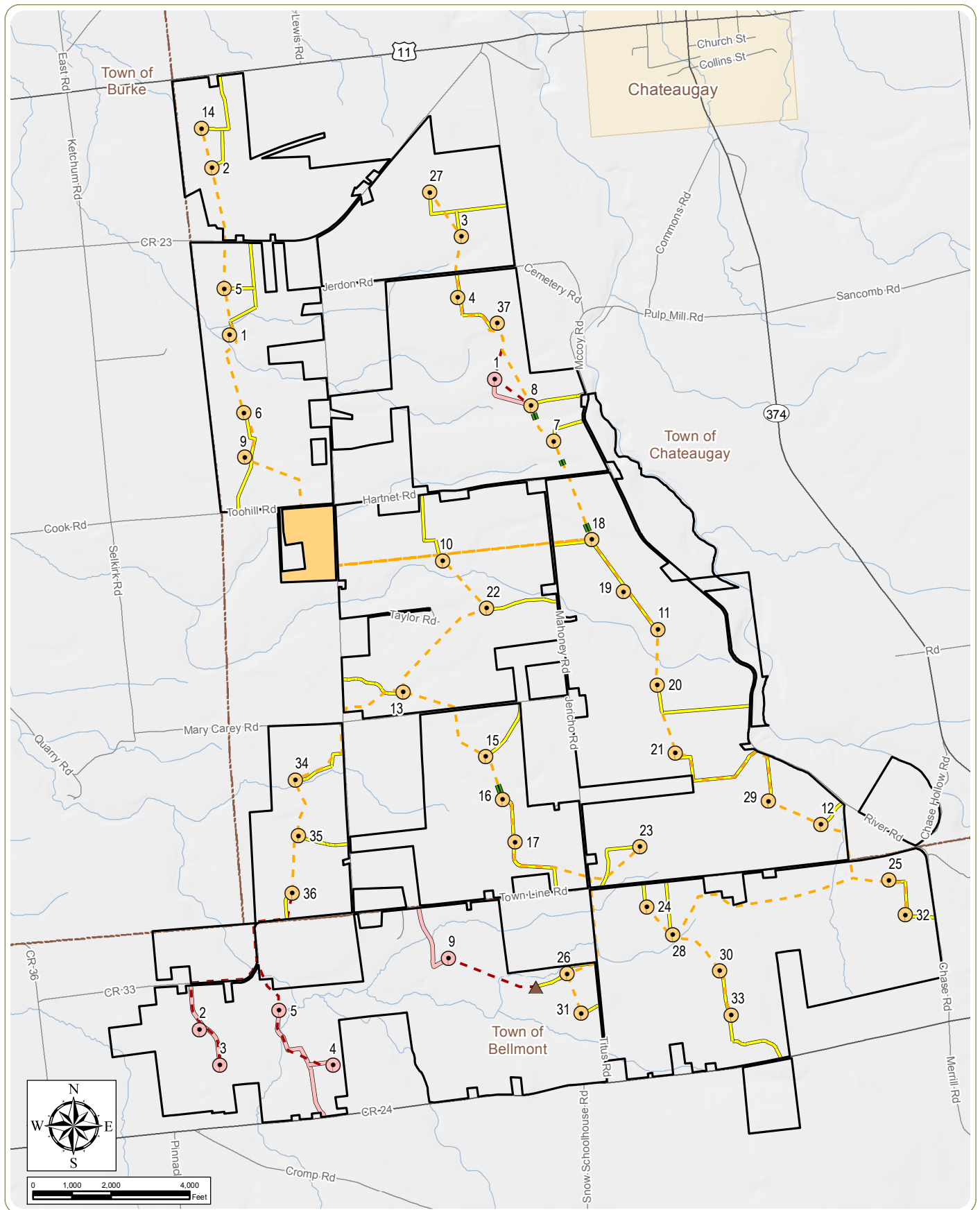
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

 Project Site



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Figure 2: Revised Project Layout

December 2015

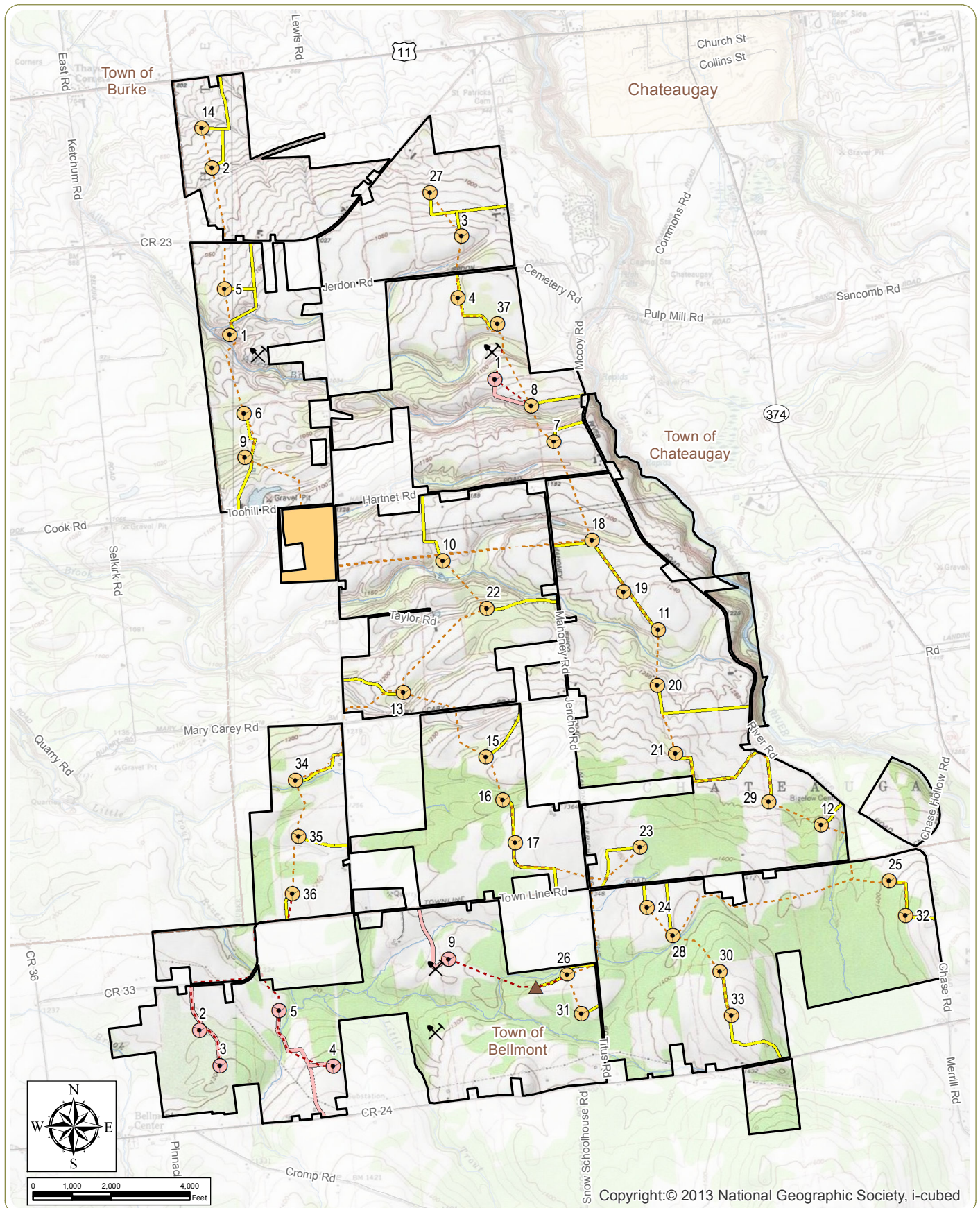
Notes: 1. Basemap: Hillshade derived from USGS digital elevation model data.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- - - Buried Collection Line
- - - Alternate Collection Line
- Overhead Collection Line
- Access Road
- Alternate Access Road
- Substation Parcel
- Project Site
- - - Town Boundary



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Figure 4: Mine Locations within the Project Site

December 2015

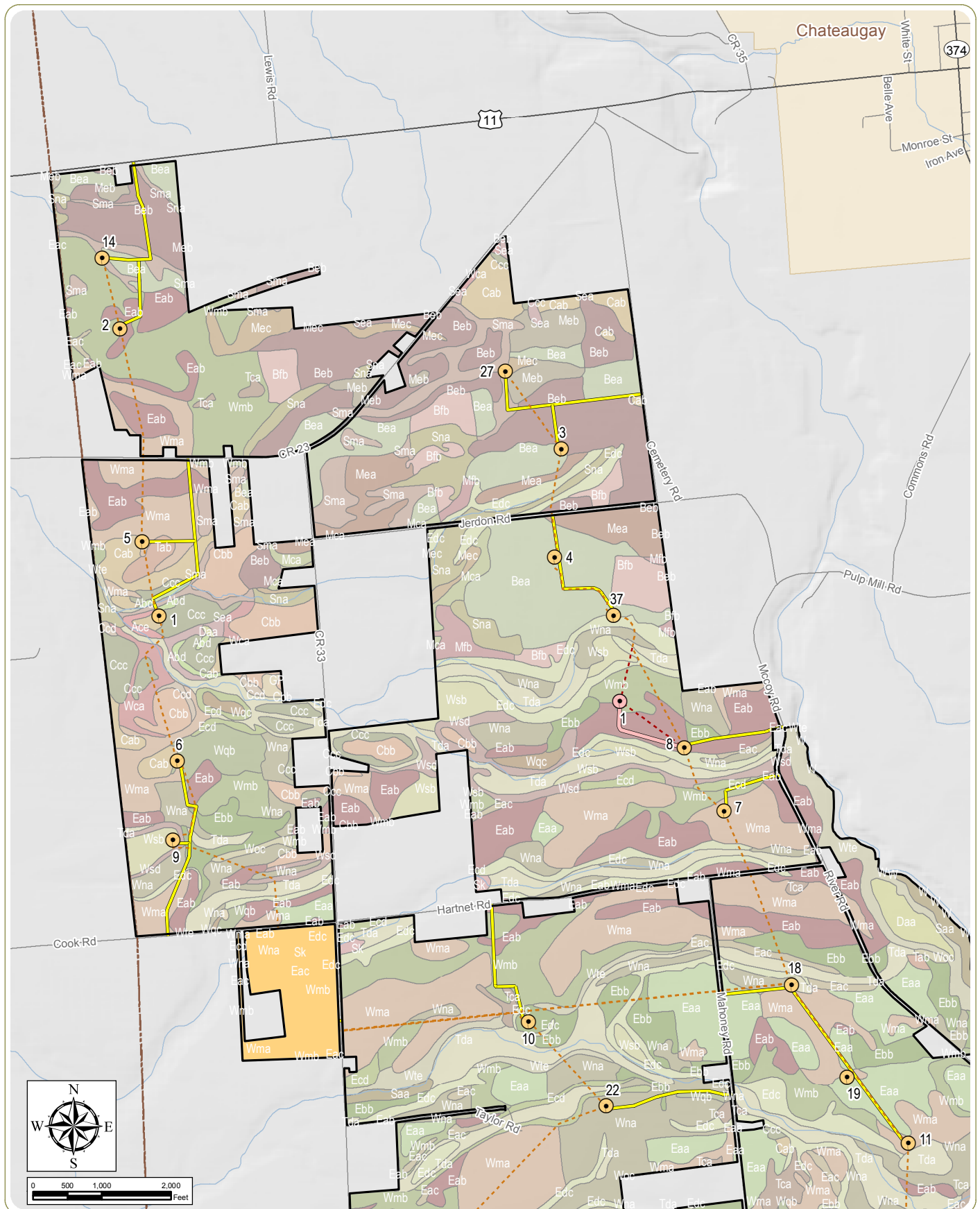
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service. 2. Mine locations obtained from NYSDEC Division of Mineral Resources Mined Lands permit files, downloaded in May of 2015. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- | | |
|---------------------------|-----------------------|
| Mine Location | Access Road |
| Wind Turbine | Alternate Access Road |
| Alternate Wind Turbine | Substation Parcel |
| Met Tower | Project Site |
| Collection Line | Town Boundary |
| Alternate Collection Line | |



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Figure 5: Project Site Soils Sheet 1 of 3

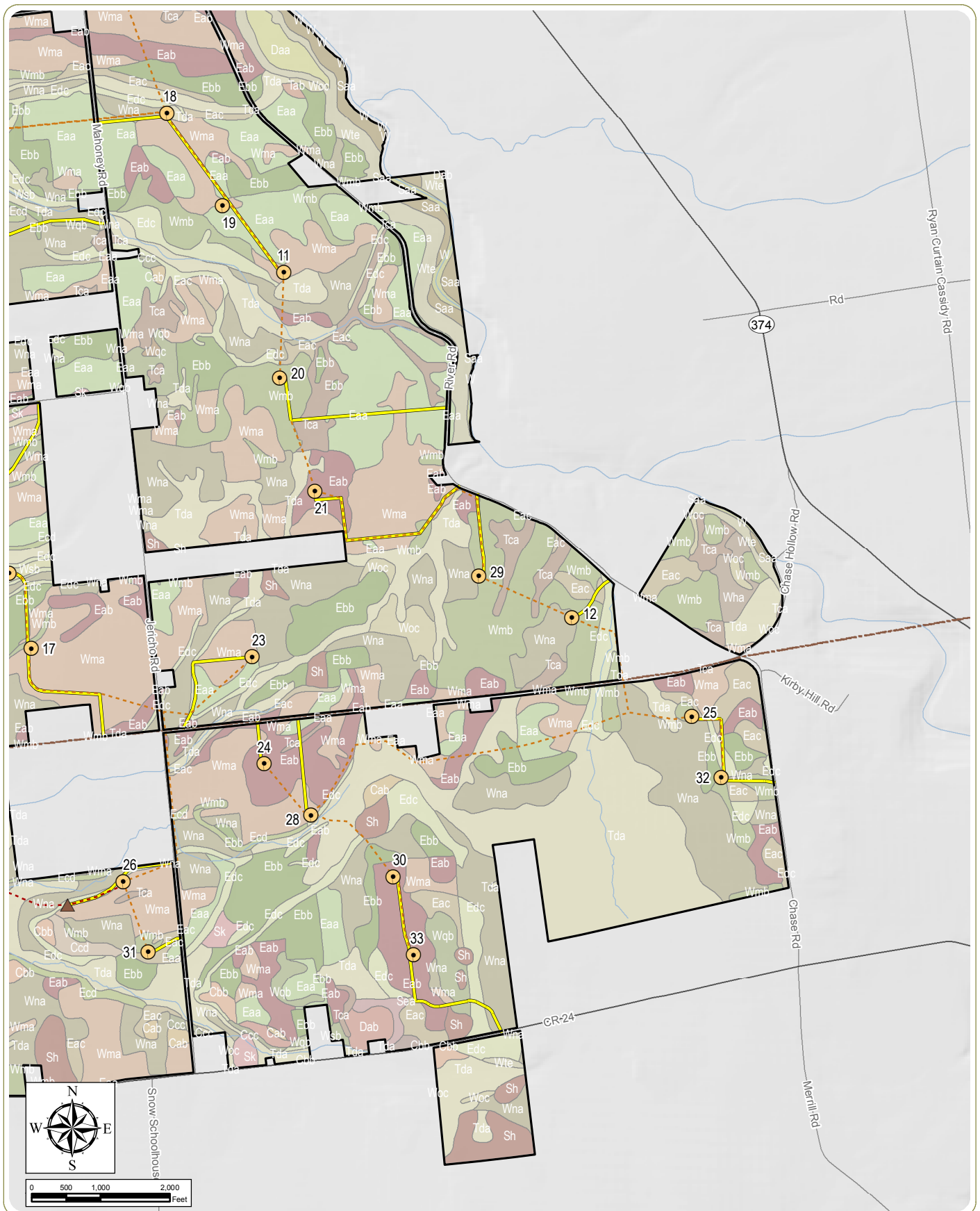
December 2015

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service. 2. Soils data from the NRCS Soil Survey Geographic Database. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Collection Line
- Alternate Collection Line
- Access Road
- Alternate Access Road
- Substation Parcel
- Project Site
- Town Boundary



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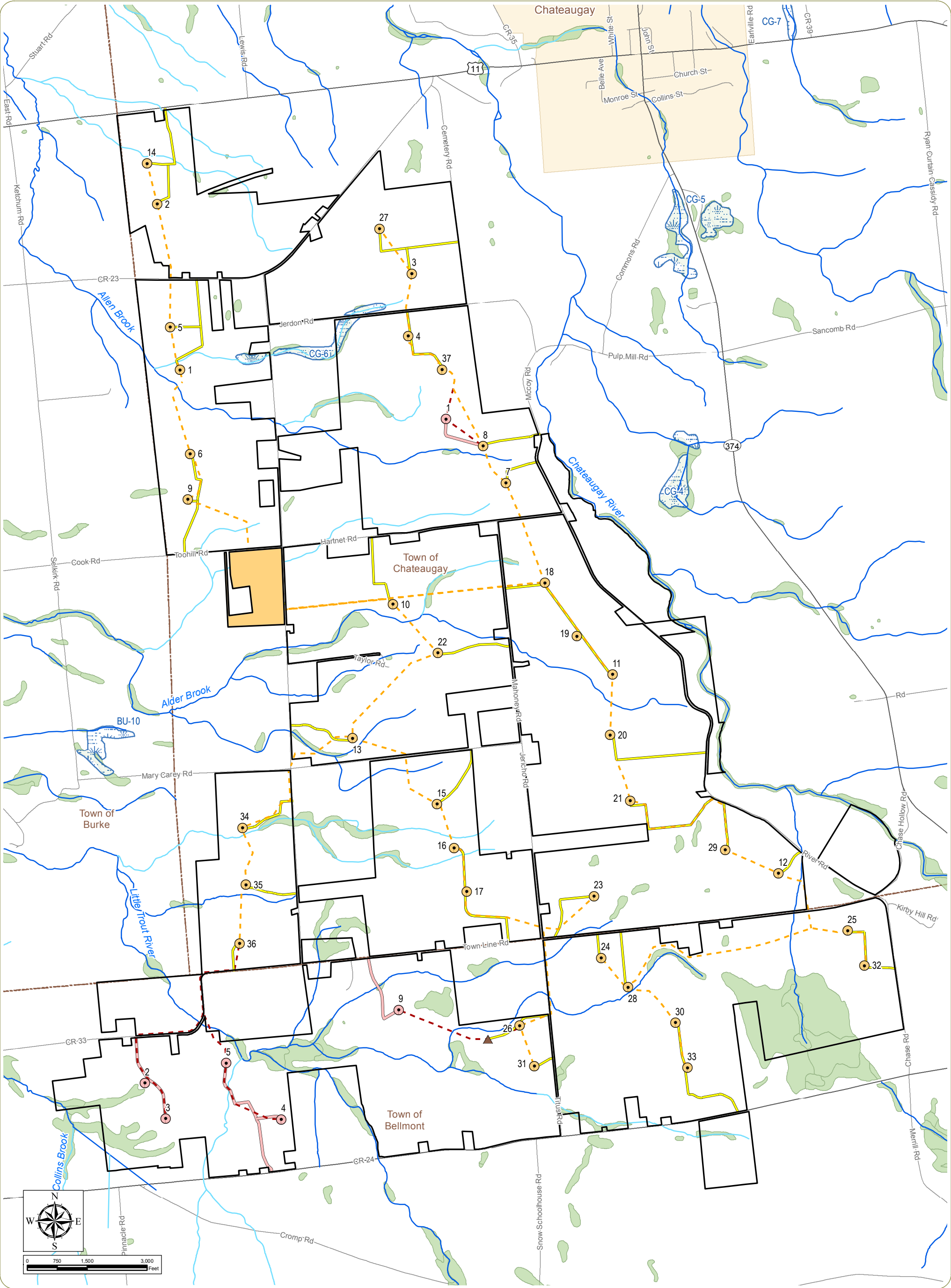
Figure 5: Project Site Soils Sheet 3 of 3

December 2015

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service. 2. Soils data from the NRCS Soil Survey Geographic Database. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- Met Tower
- Collection Line
- Alternate Collection Line
- Access Road
- Alternate Access Road
- Substation Parcel
- Project Site
- Town Boundary





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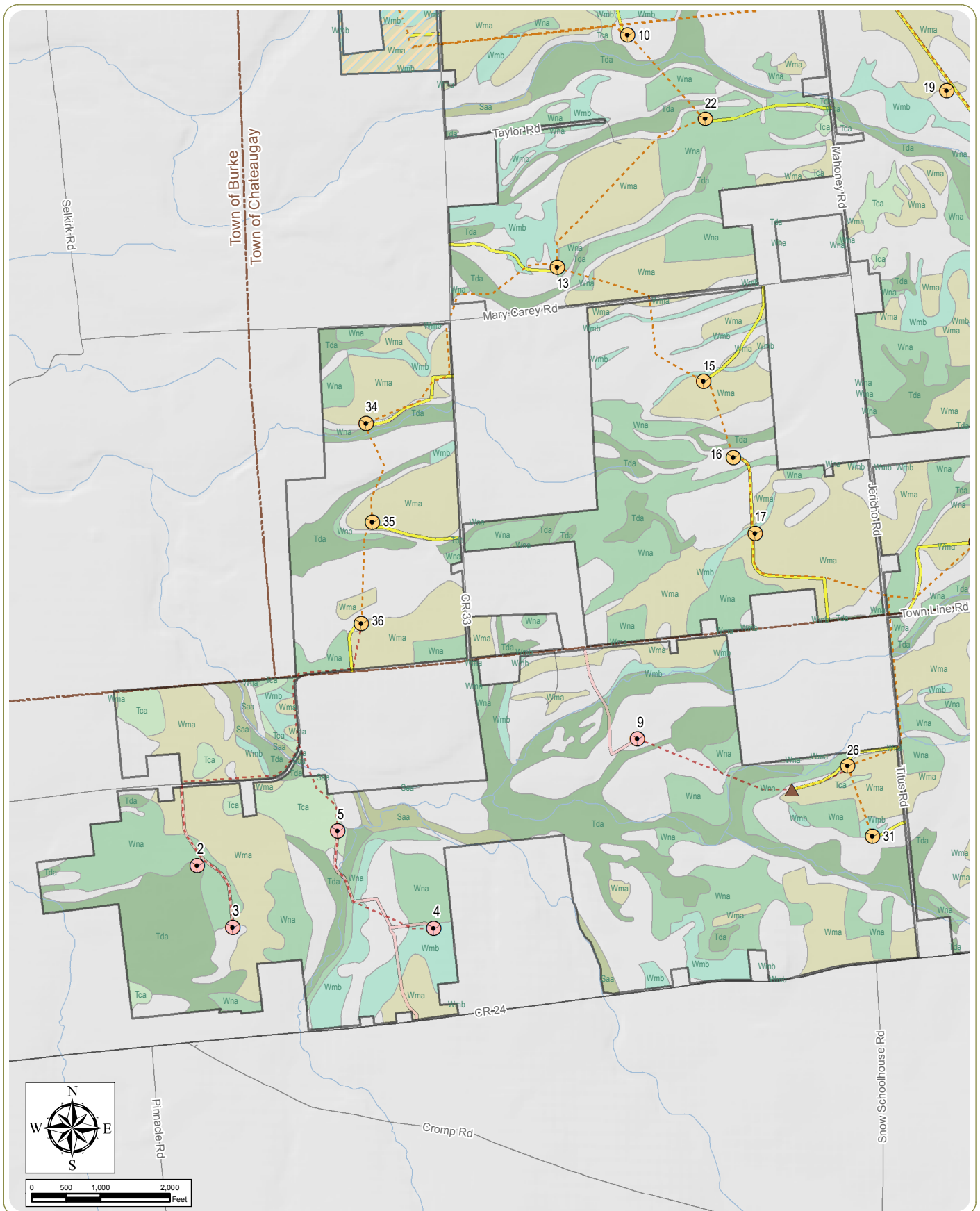
Figure 6: Surface Waterbodies

December 2015

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- | | | |
|---------------------------|-----------------------|-------------------------|
| Wind Turbine | Access Road | NYSDEC Protected Stream |
| Alternate Wind Turbine | Alternate Access Road | Unprotected Stream |
| Met Tower | Substation Parcel | NYSDEC Wetland |
| Collection Line | Project Site | NWI Wetland |
| Alternate Collection Line | Town Boundary | |





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Figure 7: Project Site Soils - Hydric

December 2015

Sheet 2 of 3

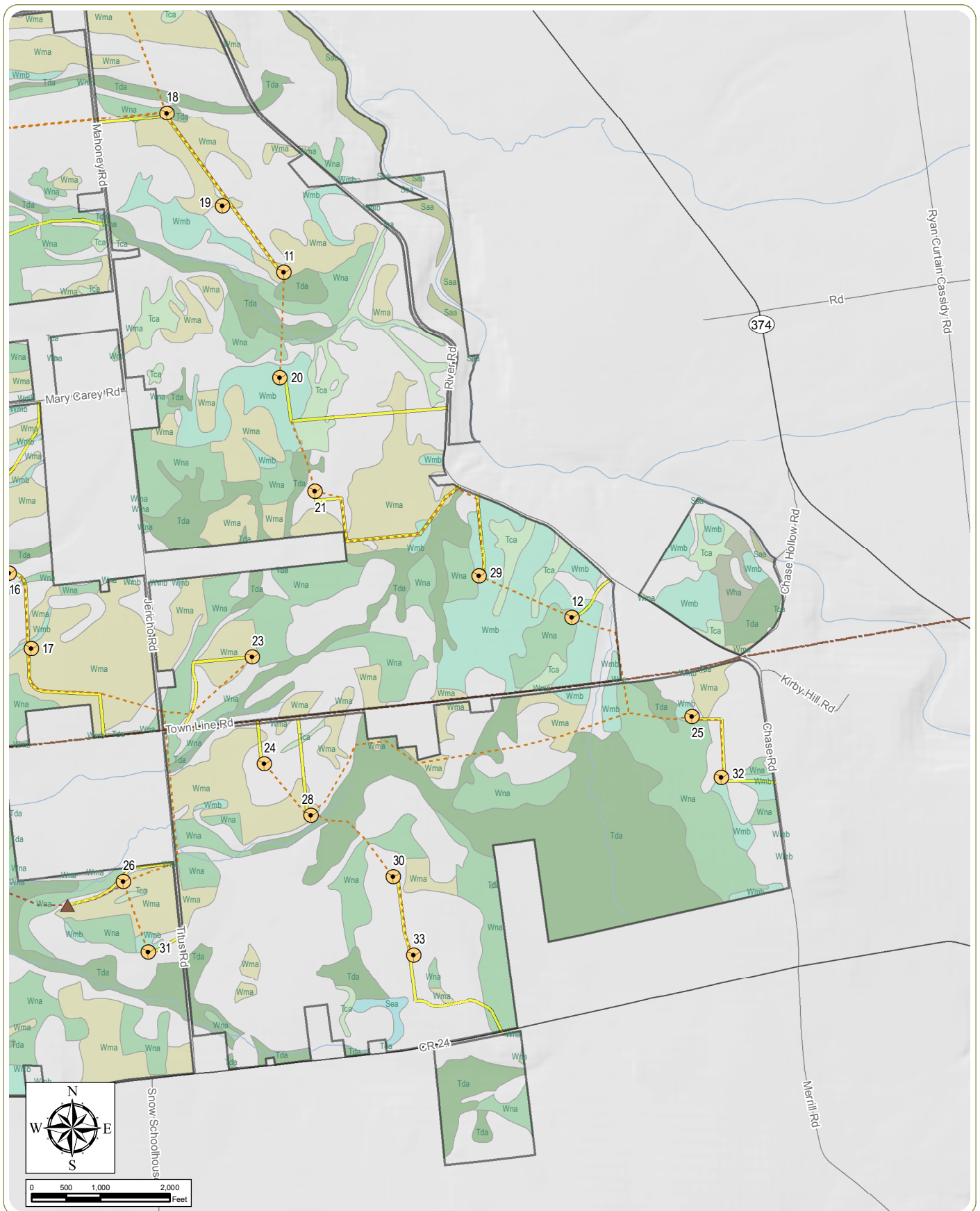
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service. 2. Soils data from the NRCS Soil Survey Geographic Database. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- Met Tower
- Collection Line
- Alternate Collection Line
- Access Road
- Alternate Access Road
- Substation Parcel
- Project Site
- Town Boundary



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Figure 7: Project Site Soils - Hydric

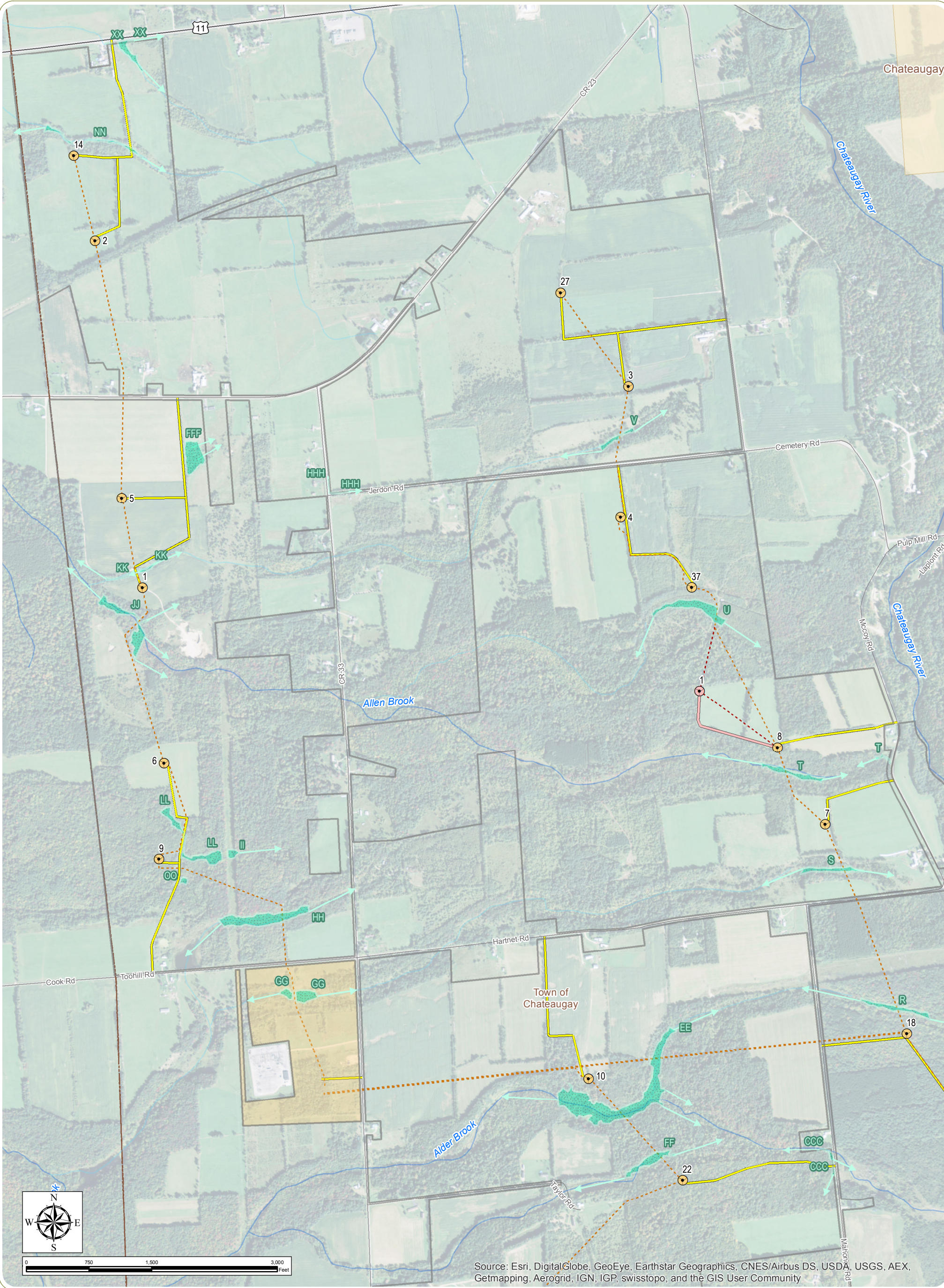
December 2015

Sheet 3 of 3

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service. 2. Soils data from the NRCS Soil Survey Geographic Database. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- Met Tower
- Collection Line
- Alternate Collection Line
- Access Road
- Alternate Access Road
- Substation Parcel
- Project Site
- Town Boundary





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Figure 8: Delineated Wetlands

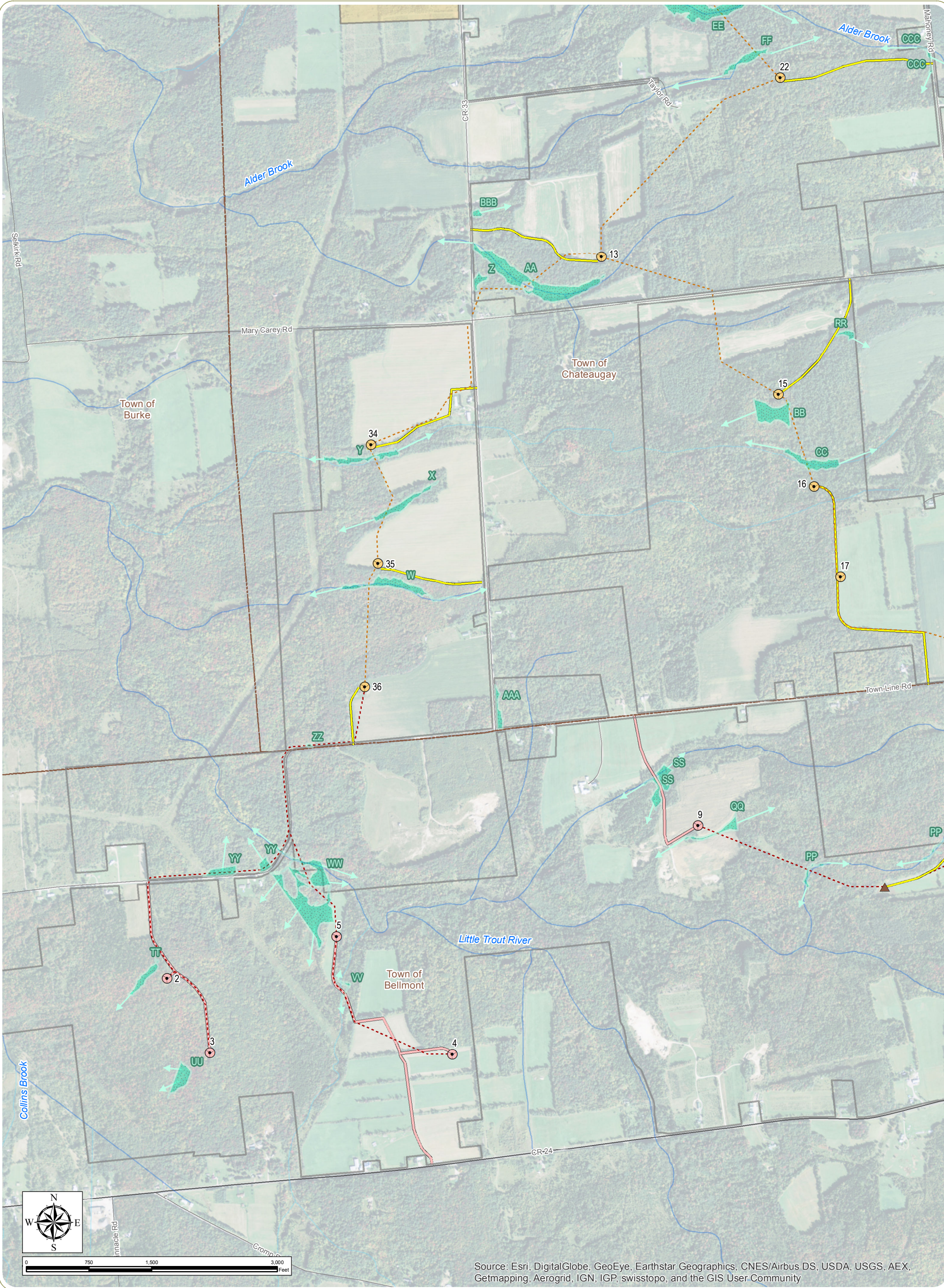
December 2015

Sheet 1 of 3

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- | | | |
|---------------------------------|-------------------------|---------------------------|
| ● Wind Turbine | — Access Road | — NYSDEC Protected Stream |
| ● Alternate Wind Turbine | — Alternate Access Road | — Unprotected Stream |
| ▲ Met Tower | ■ Substation Parcel | ■ Delineated Wetlands |
| - - - Collection Line | □ Project Site | → Wetland Continues |
| - - - Alternate Collection Line | □ Town Boundary | |





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Figure 8: Delineated Wetlands

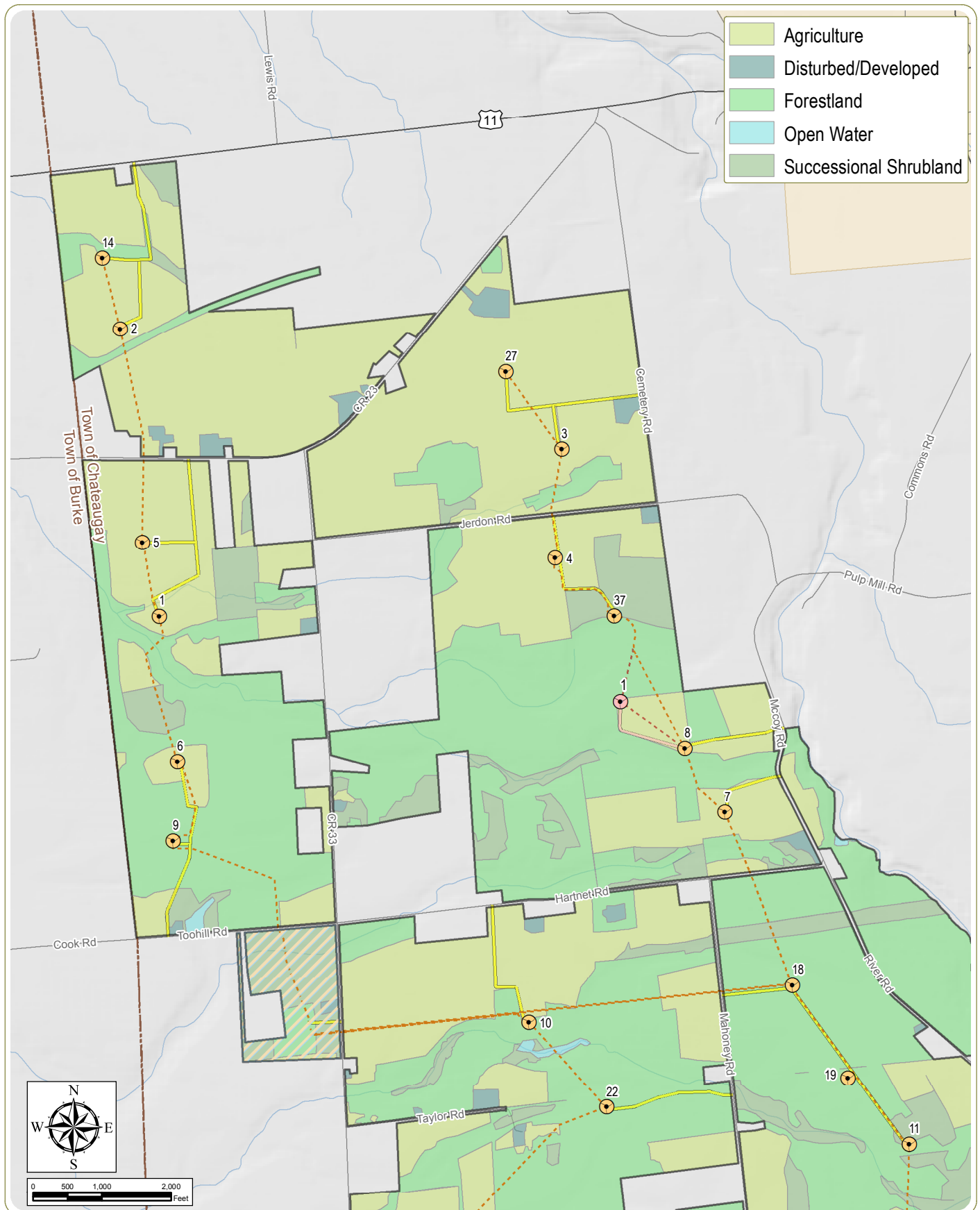
December 2015

Sheet 3 of 3

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- | | | |
|---------------------------------|-------------------------|---------------------------|
| ● Wind Turbine | — Access Road | — NYSDEC Protected Stream |
| ● Alternate Wind Turbine | — Alternate Access Road | — Unprotected Stream |
| ▲ Met Tower | ■ Substation Parcel | ■ Delineated Wetlands |
| - - - Collection Line | □ Project Site | → Wetland Continues |
| - - - Alternate Collection Line | □ Town Boundary | |





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Figure 9: Vegetative Cover Types Sheet 1 of 3

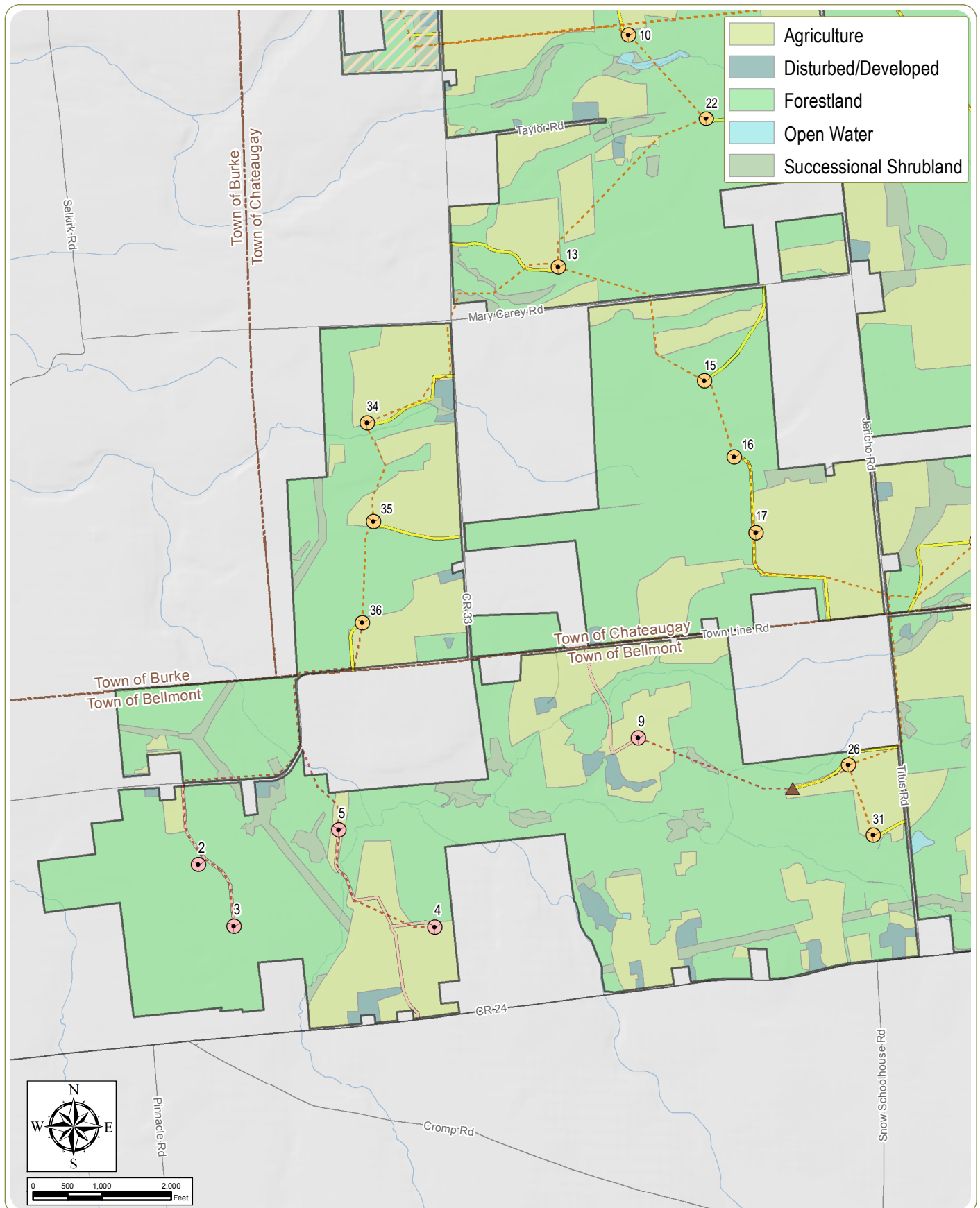
December 2015

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service. 2. Soils data from the NRCS Soil Survey Geographic Database. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Collection Line
- Alternate Collection Line
- Access Road
- Alternate Access Road
- ▨ Substation Parcel
- ▭ Project Site
- ▭ Town Boundary



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Figure 9: Vegetative Cover Types Sheet 2 of 3

December 2015

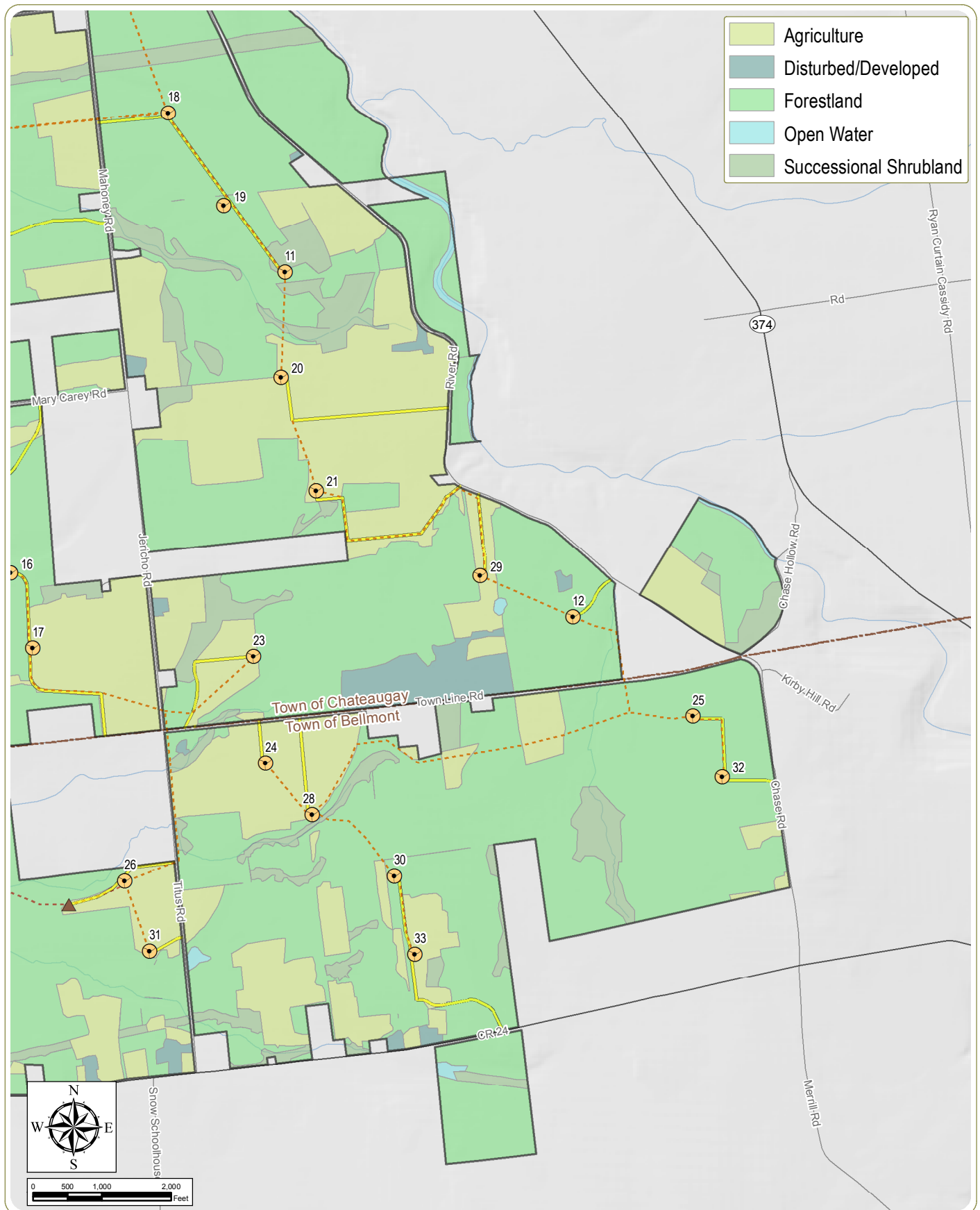
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service. 2. Soils data from the NRCS Soil Survey Geographic Database. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- Met Tower
- Collection Line
- Alternate Collection Line
- Access Road
- Alternate Access Road
- Substation Parcel
- Project Site
- Town Boundary



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Figure 9: Vegetative Cover Types Sheet 3 of 3

December 2015

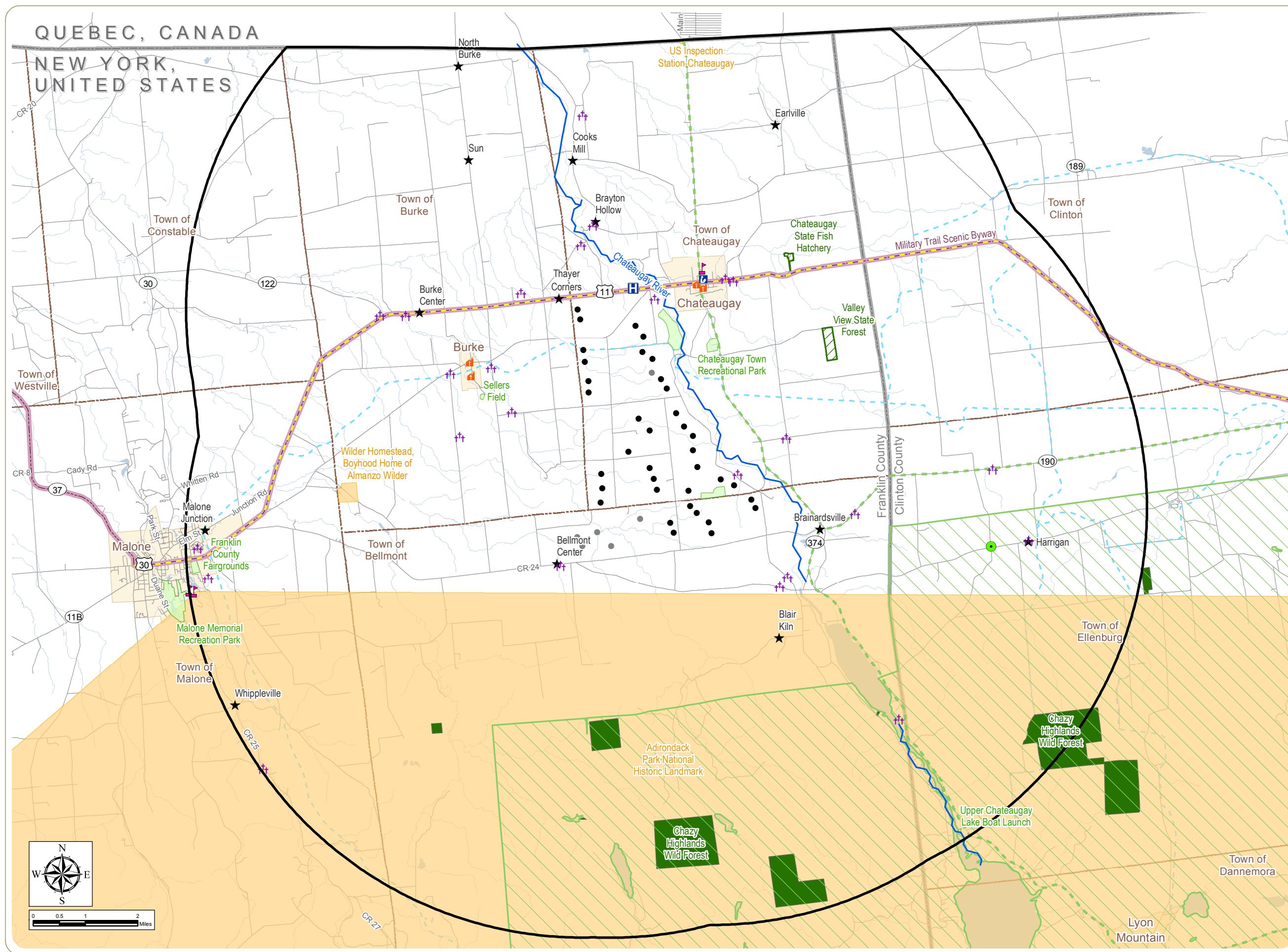
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service. 2. Soils data from the NRCS Soil Survey Geographic Database. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

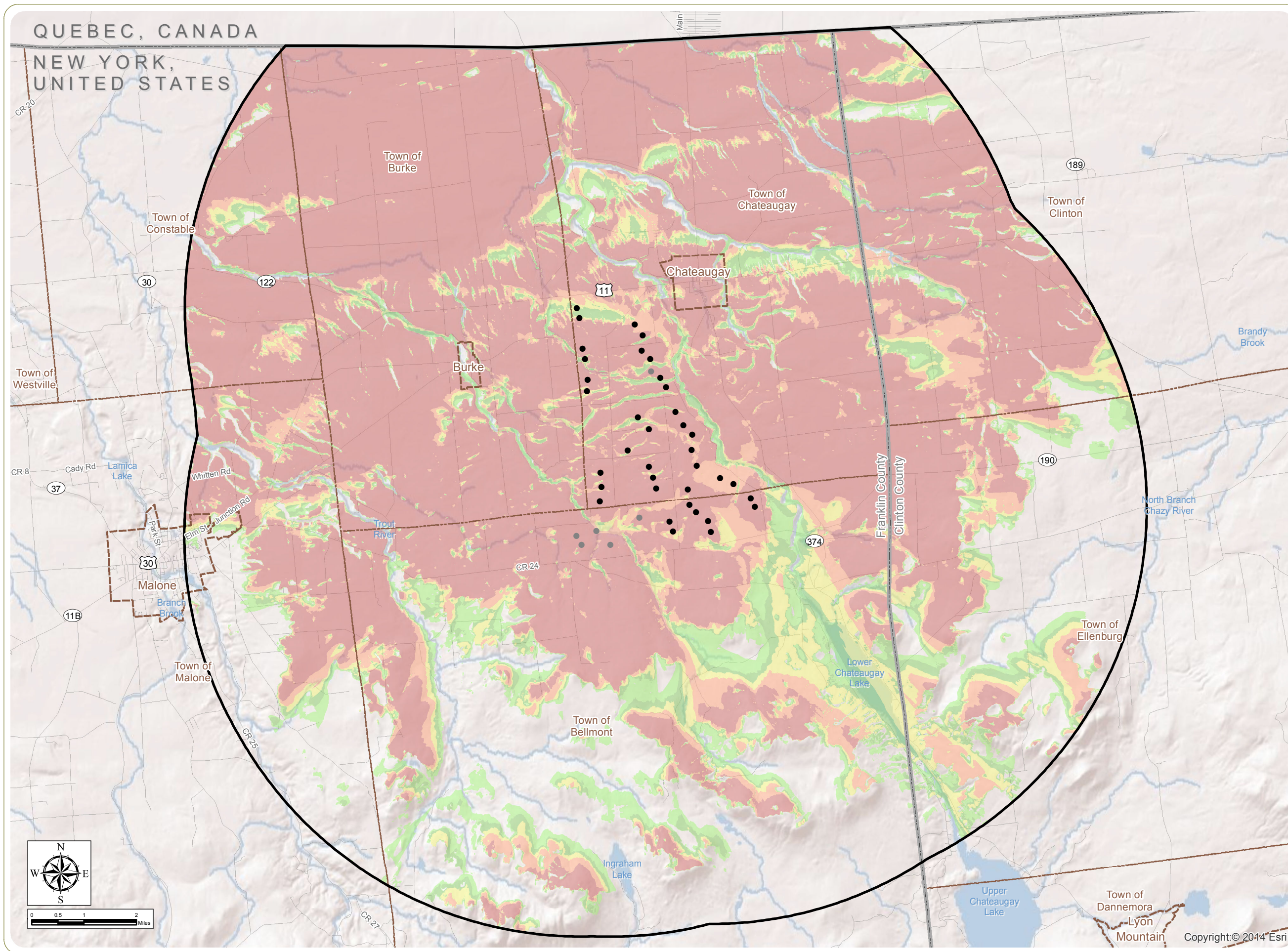
- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Collection Line
- Alternate Collection Line
- Access Road
- Alternate Access Road
- ▨ Substation Parcel
- Project Site
- Town Boundary



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Figure 11: Viewshed Analysis

Sheet 1 of 4: Blade Tip Visibility Based on Topography Only

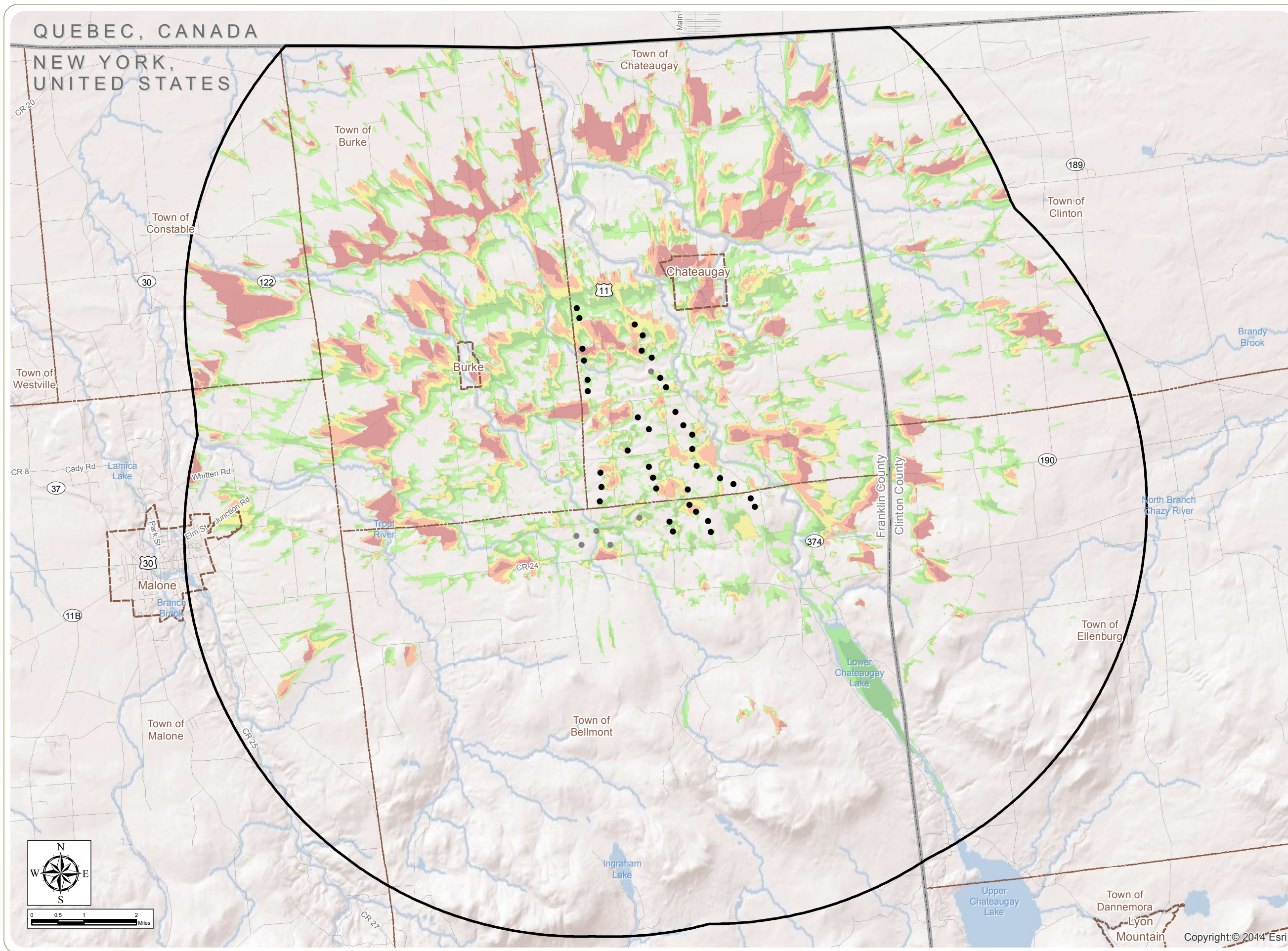
December 2015

- Wind Turbine
 - Alternate Wind Turbine
 - Visual Study Area
 - City/Village Boundary
 - Town Boundary
 - County Boundary
- Potential Visibility
- 1-10 Turbines Visible
 - 11-20 Turbines Visible
 - 21-30 Turbines Visible
 - 31-40 Turbines Visible
 - 41-43 Turbines Visible

Notes:

1. Basemap: ESRI ArcGIS Online "World Shaded Relief" Map Service.
2. Potential turbine visibility based on topography only. Screening effects of buildings, trees or other factors are not accounted for.
3. Viewshed analysis based on a maximum blade tip height of 150 meters.
4. This is a color graphic. Reproduction in grayscale may misrepresent the data.





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Figure 11: Viewshed Analysis

Sheet 2 of 4: Blade Tip Visibility Based on Topography and Vegetation

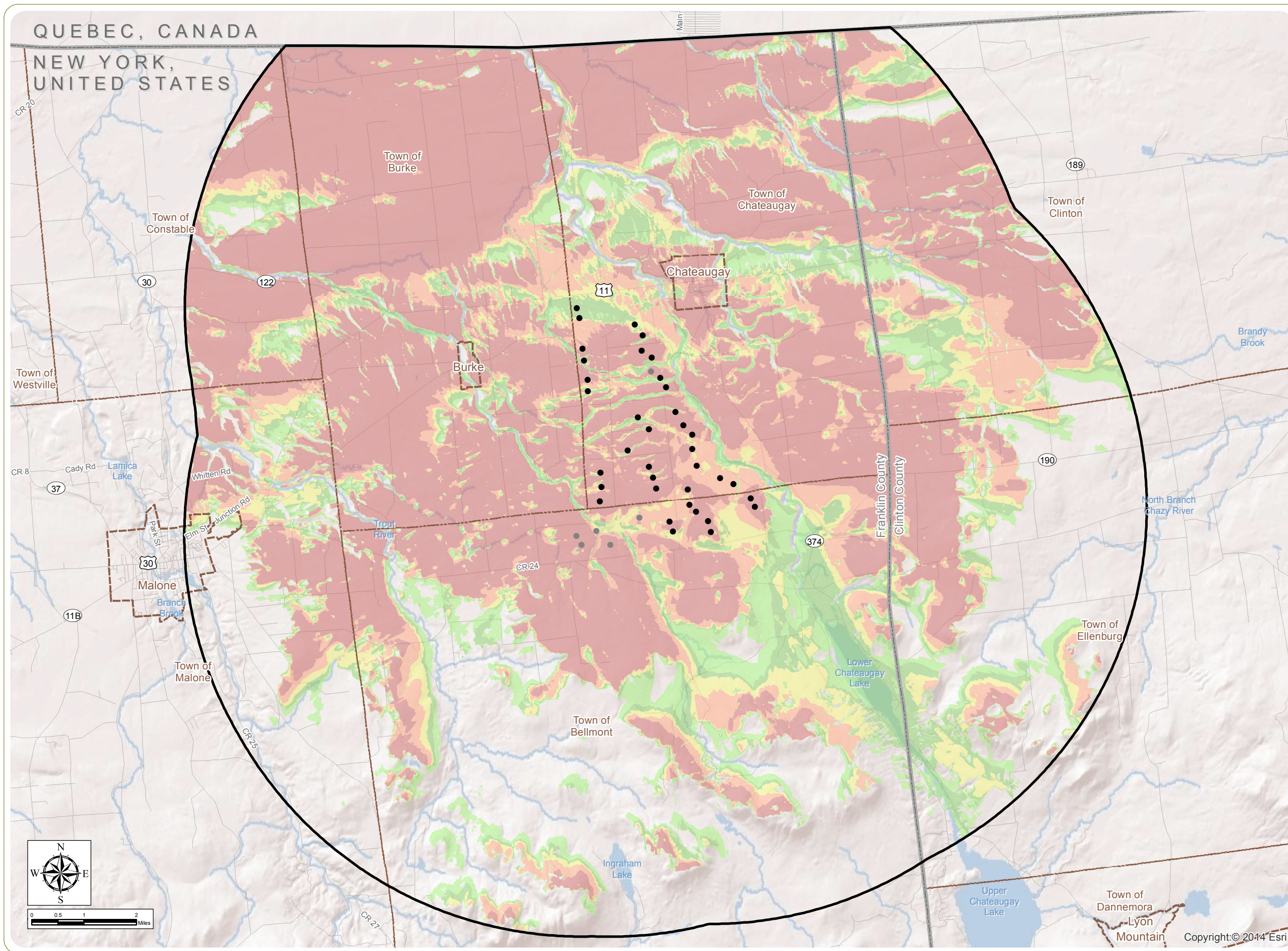
December 2015

- Wind Turbine
 - Alternate Wind Turbine
 - Visual Study Area
 - City/Village Boundary
 - Town Boundary
 - County Boundary
- Potential Visibility**
- 1-10 Turbines Visible
 - 11-20 Turbines Visible
 - 21-30 Turbines Visible
 - 31-40 Turbines Visible
 - 41-43 Turbines Visible

Notes:

1. Basemap: ESRI ArcGIS Online "World Shaded Relief" Map Service.
2. Potential turbine visibility based on topography and potential screening by mapped forest vegetation (with an assumed height of 40 ft).
3. Viewshed analysis based on a maximum blade tip height of 150 meters.
4. This is a color graphic. Reproduction in grayscale may misrepresent the data.





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Figure 11: Viewshed Analysis

Sheet 3 of 4: FAA Warning Light Visibility Based on Topography Only

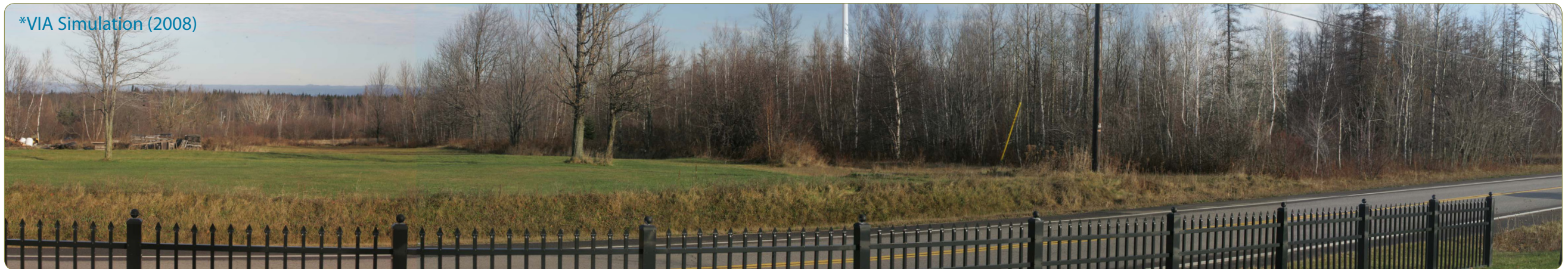
December 2015

- Wind Turbine
 - Alternate Wind Turbine
 - Visual Study Area
 - City/Village Boundary
 - Town Boundary
 - County Boundary
- Potential Visibility**
- 1-10 Lights Visible
 - 11-20 Lights Visible
 - 21-30 Lights Visible
 - 31-40 Lights Visible
 - 41-43 Lights Visible

Existing View



*VIA Simulation (2008)



SVIA Simulation (2015)



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Figure 12 : Viewpoint 3 - View from CR 24 near the hamlet of Belmont Center

December 2015

*VIA Simulations (2008) prepared by Tetratech in
Original Visual Impact Assessment

Sheet 1 of 9





Existing View



*VIA Simulation (2008)



SVIA Simulation (2015)



Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 12 : Viewpoint 14 - View from the intersection of Cassidy Road and Number 5 Road, north of the hamlet of Brainardsville

December 2015

*VIA Simulations (2008) prepared by Tetratech in
Original Visual Impact Assessment



Existing View



*VIA Simulation (2008)



SVIA Simulation (2015)



Existing View



*VIA Simulation (2008)



SVIA Simulation (2015)



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Figure 12 : Viewpoint 19 - View from the entrance of High Falls Park off River Road, outside the Village of Chateaugay

December 2015

*VIA Simulations (2008) prepared by Tetratech in
Original Visual Impact Assessment

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Existing View



*VIA Simulation (2008)



SVIA Simulation (2015)



Jericho Rise Wind Farm

Towns of Chateaugay and Bellmont - Franklin County, New York

Figure 12 : Viewpoint 20 - View from the intersection of River Road and Chase Road, outside the Village of Chateaugay

December 2015

*VIA Simulations (2008) prepared by Tetrattech in
Original Visual Impact Assessment

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Figure 12 : Viewpoint 26A - View from Field Road at the south edge of the Village of Burke

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*VIA Simulations (2008) prepared by Tetratech in
Original Visual Impact Assessment

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Existing View



*VIA Simulation (2008)



SVIA Simulation (2015)



Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

Figure 12 : Viewpoint 31 - View from the intersection of Callahan and Covey Roads

December 2015

*VIA Simulations (2008) prepared by Tetratech in
Original Visual Impact Assessment

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Existing View



*VIA Simulation (2008)



SVIA Simulation (2015)



Jericho Rise Wind Farm

Towns of Chateaugay and Belmont - Franklin County, New York

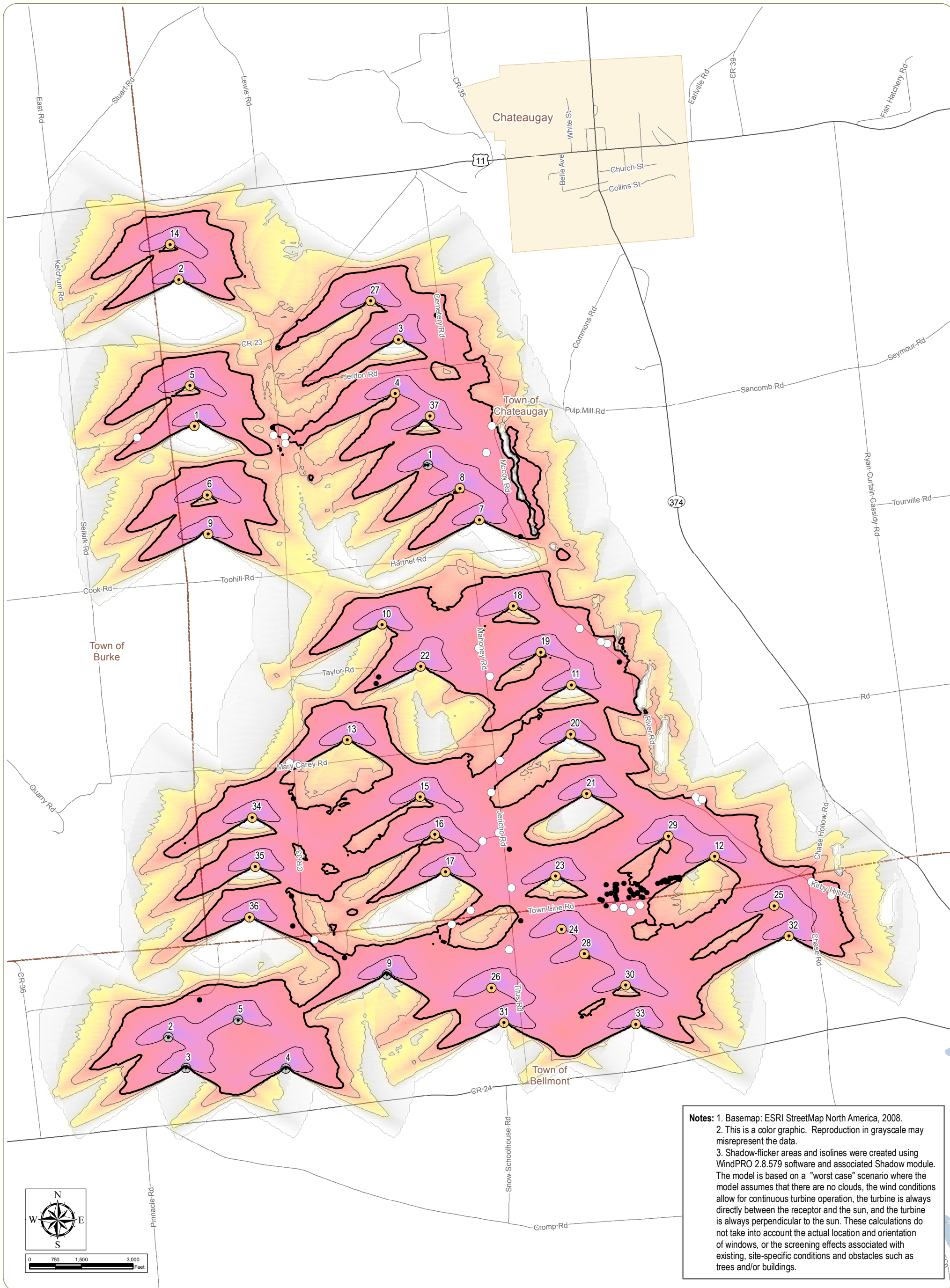
Figure 12 : Viewpoint 34 - View from Childs Road near the Town of Malone

December 2015

*VIA Simulations (2008) prepared by Tetratech in
Original Visual Impact Assessment

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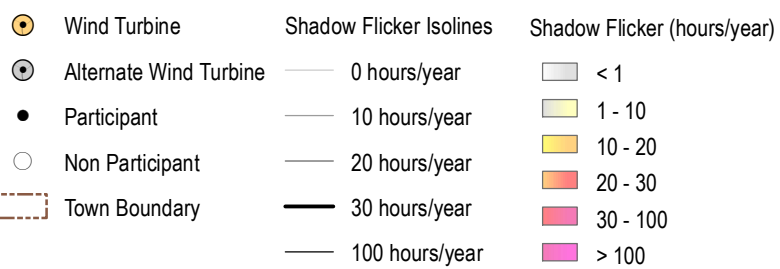


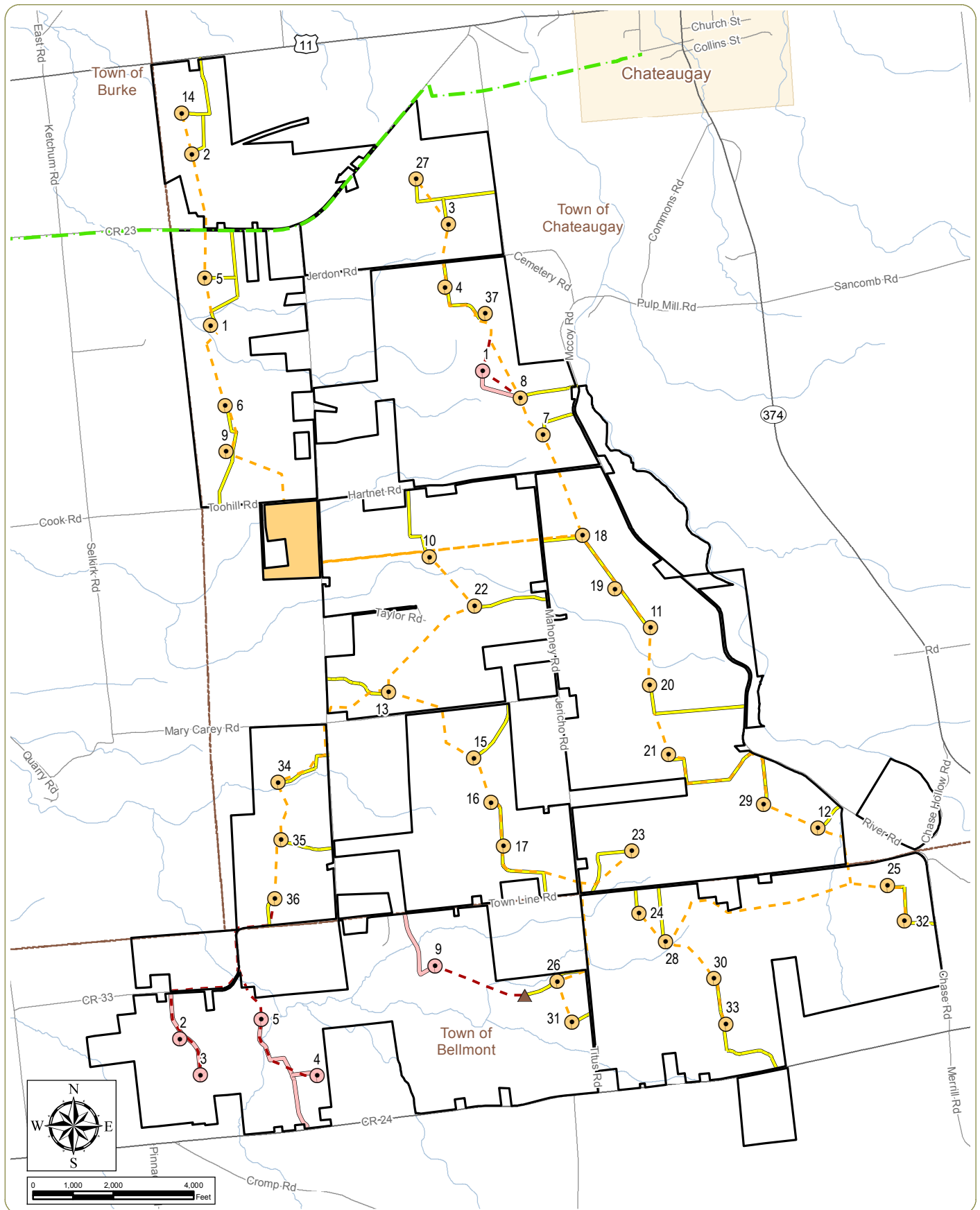
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Figure 13: Projected Shadow Flicker

December 2015





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Figure 14: Existing Underground Gas Infrastructure

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Notes: 1. Basemap: ESRI StreetMap North America, 2008.

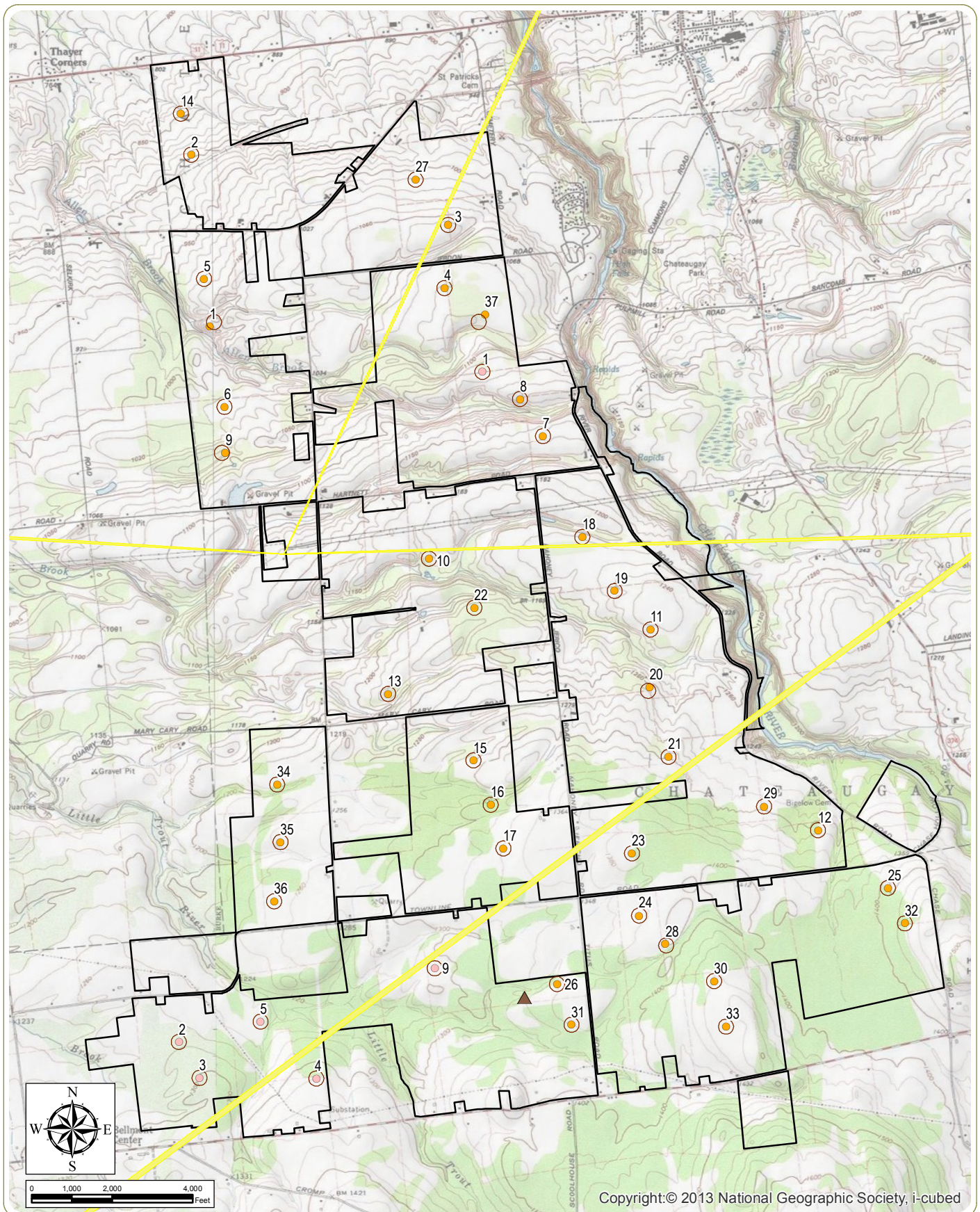
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Buried Collection Line
- Alternate Collection Line
- St. Lawrence Gas Main Line
- Access Road
- Alternate Access Road
- Substation Parcel
- Project Site



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Figure 15: Microwave Path Analysis

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Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service.

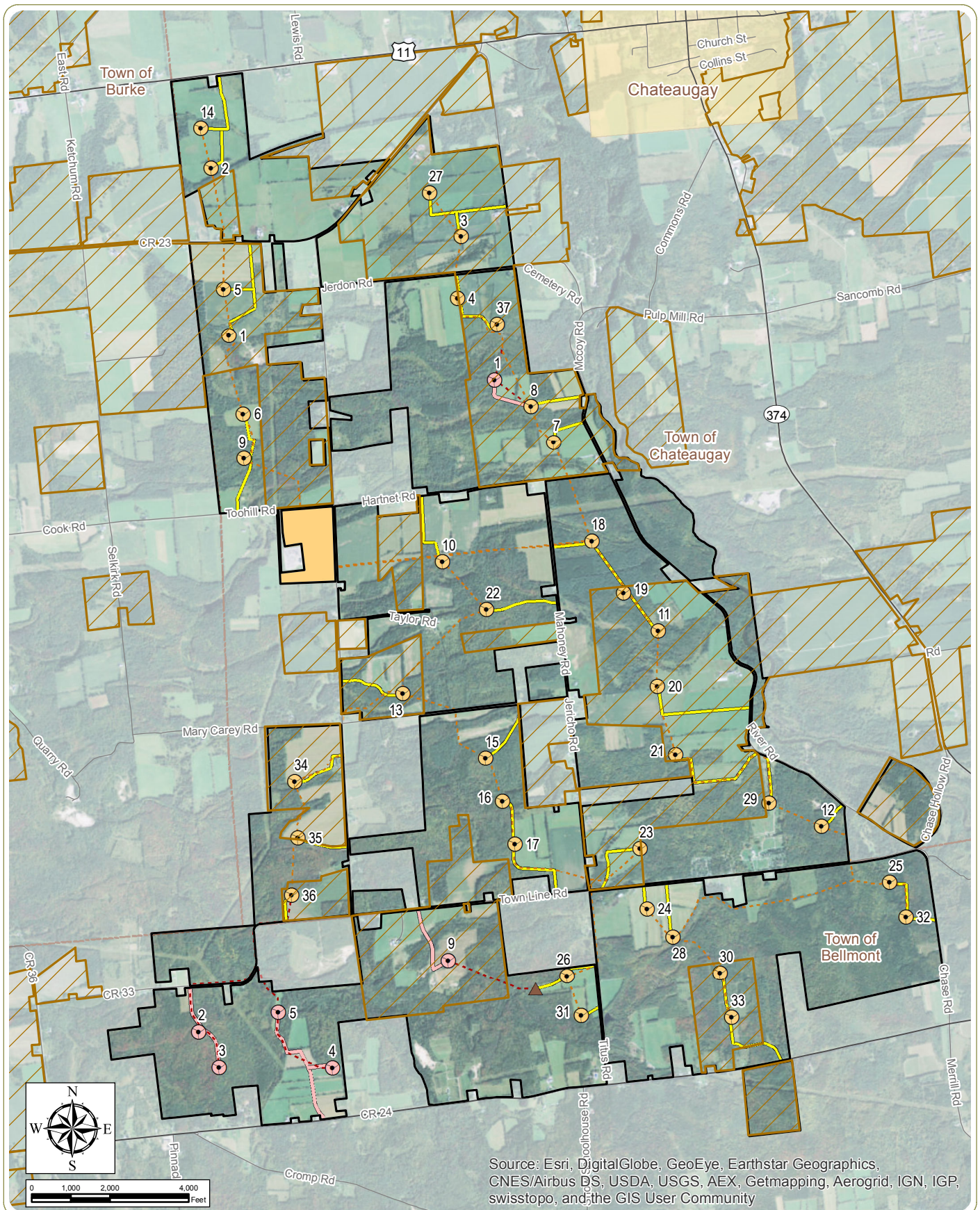
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Proposed Wind Turbine
- Rotor-Swept Area
- Alternate Wind Turbine
- Met Tower
- Microwave Path



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Figure 16: Agricultural Districts

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Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service. 2. Franklin County Agricultural District boundaries published by Cornell Institute for Resource Information Sciences, 2014. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

