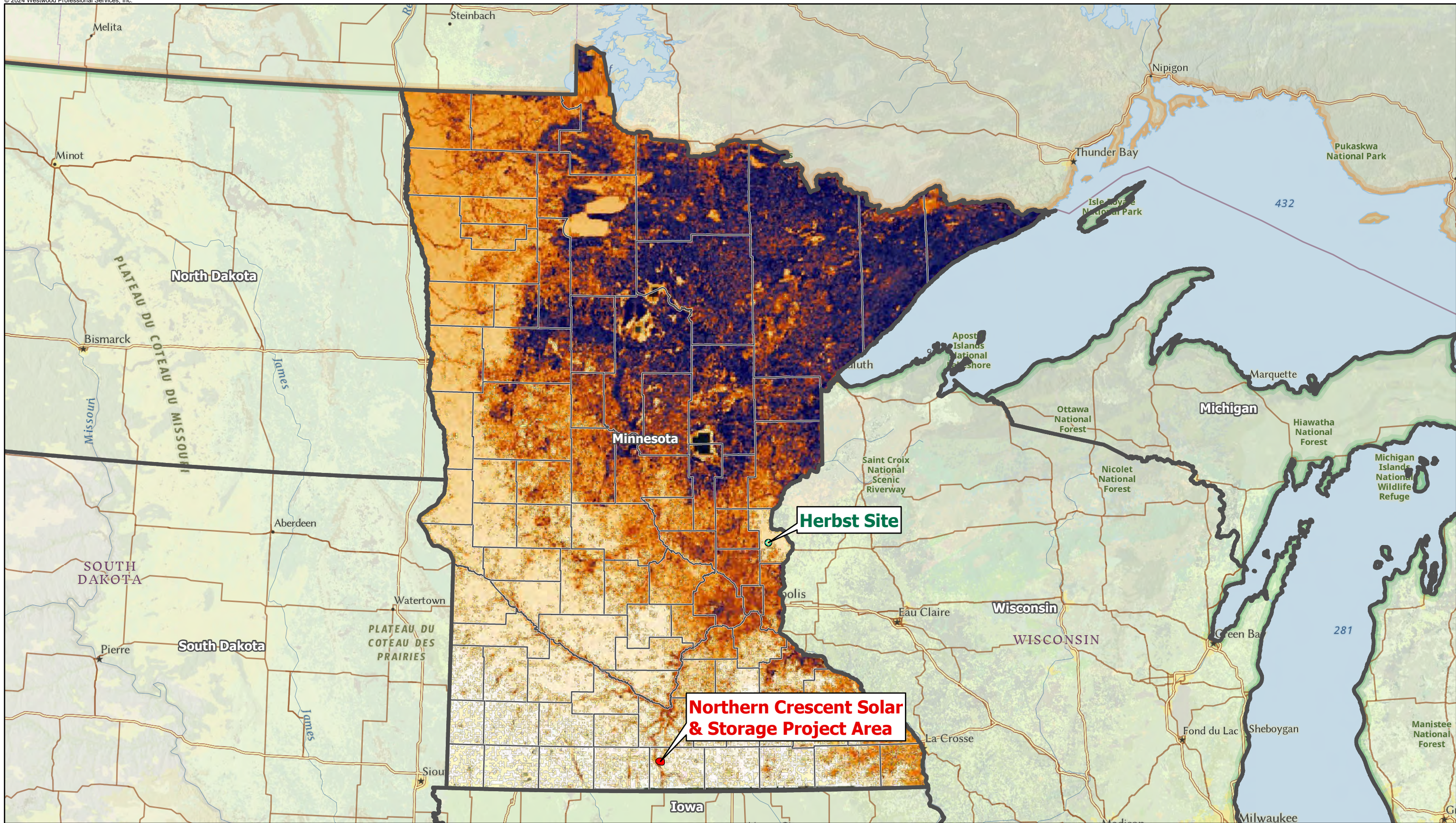




Data Source(s): Westwood (2024); ESRI WMS National Geographic Basemap (Accessed 2024); U.S. Census Bureau (2021) Minnesota Department of Commerce (2020).

Legend

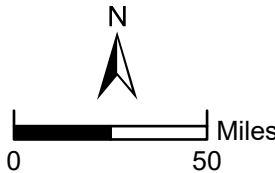
- Winnebago Solar Project Area
- Herbst Site
- State Boundary
- County Boundary

Minnesota Solar Potential (kWh/m²)



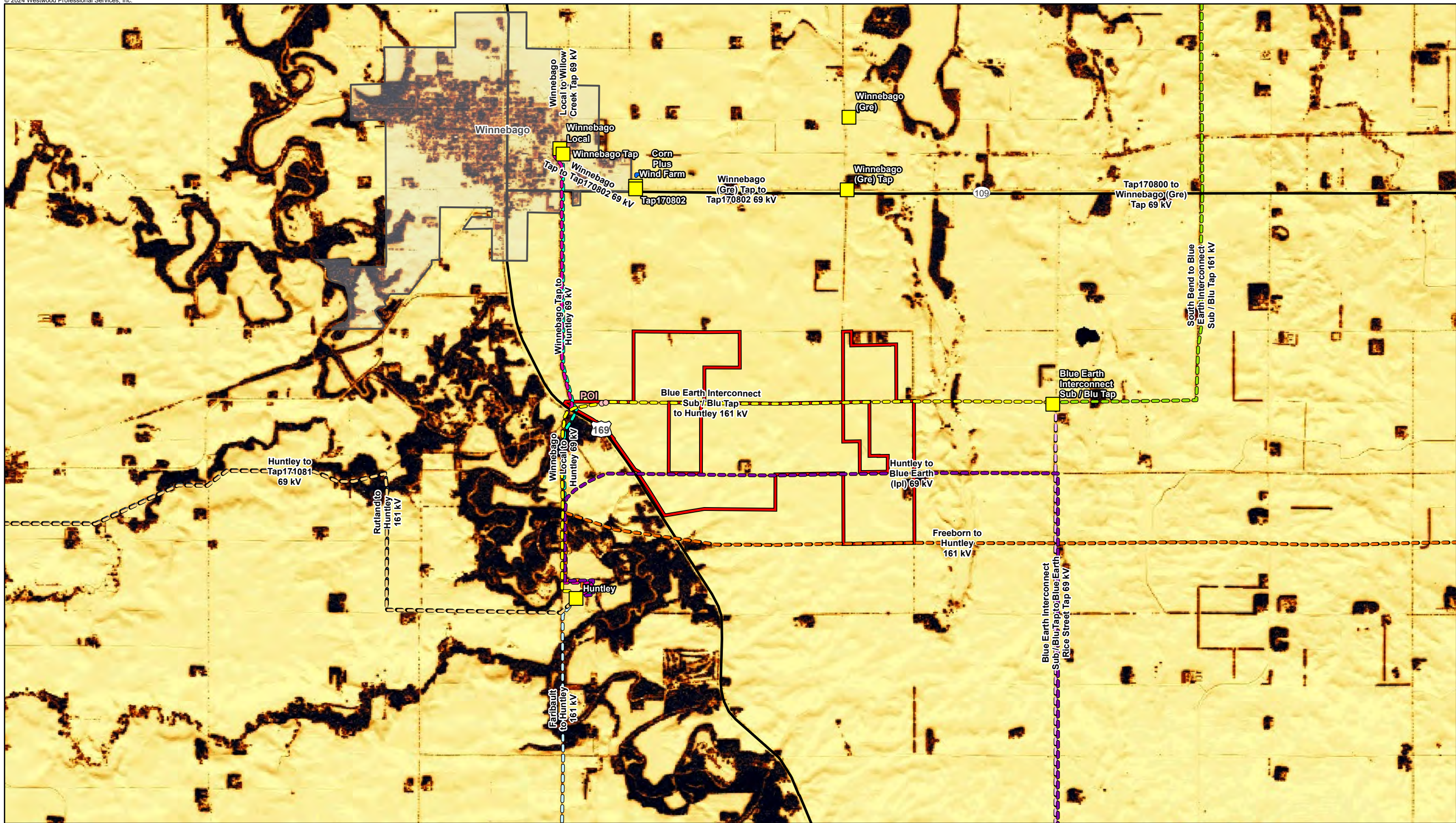
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Northern Crescent Solar & Storage Project

Faribault County, Minnesota
Solar Resources
in Minnesota
FIGURE 7 (February, 2024)



Data Source(s): Westwood (2024); Ventyx Velocity Suite (2021); MN Geospatial Commons (2021); U.S. Census Bureau (2021) Minnesota Department of Commerce (2020); HIFLD (2022 & 2023).

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Legend

- Project Area
- County Boundary
- City/Civil Township Boundary
- Existing Substation

- Proposed Point of Interconnection (POI)
- Major Road

- Existing Transmission Line**
- Blue Earth Interconnect Sub / Blu Tap to Blue Earth Rice Street Tap 69 kV
 - Blue Earth Interconnect Sub / Blu Tap to Huntley 161 kV

- Faribault to Huntley 161 kV
- Freeborn to Huntley 161 kV
- Huntley to Blue Earth (Ipl) 69 kV

- Huntley to Tap171081 69 kV
- Rutland to Huntley 161 kV
- South Bend to Blue Earth Interconnect Sub / Blu Tap 161 kV

- Winnebago Local to Huntley 69 kV
- Winnebago Tap to Huntley 69 kV
- Unknown129758 to Not Available 69 kV

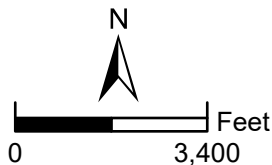
Minnesota Solar Potential (kWh/m^2)
3.5 (Sun)
0.0 (Shade)

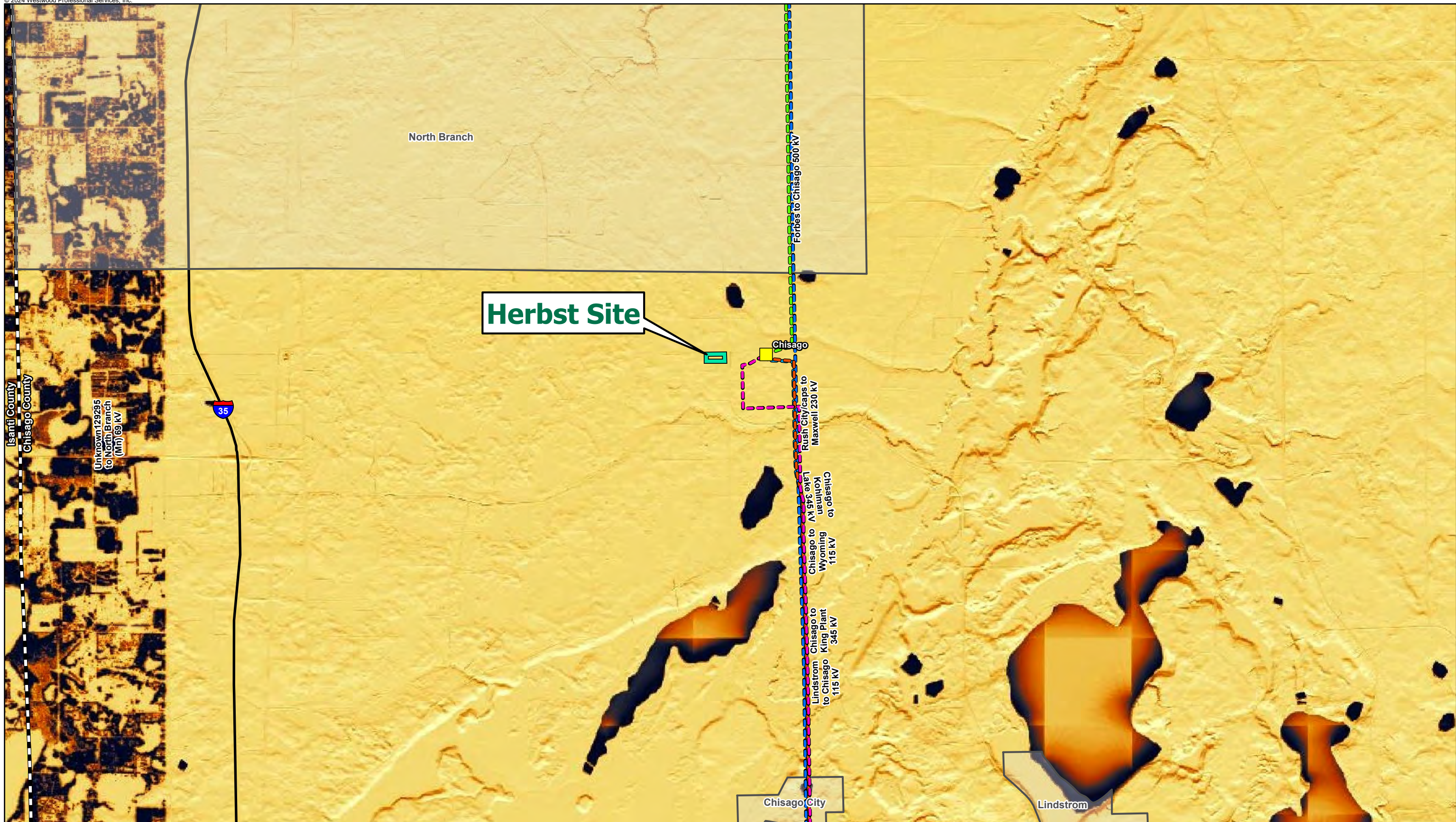
Northern Crescent Solar & Storage Project

Faribault County, Minnesota

MSSA Insolation at Project Area Site

FIGURE 8 (July, 2024)





Data Source(s): Westwood (2024); MN Geospatial Commons (2021); U.S. Census Bureau (2021); Minnesota Department of Commerce (2020); HIFLD (2022 & 2023).

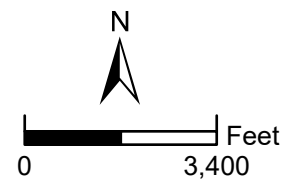
Legend

- Herbst Site
- County Boundary
- City/Civil Township Boundary

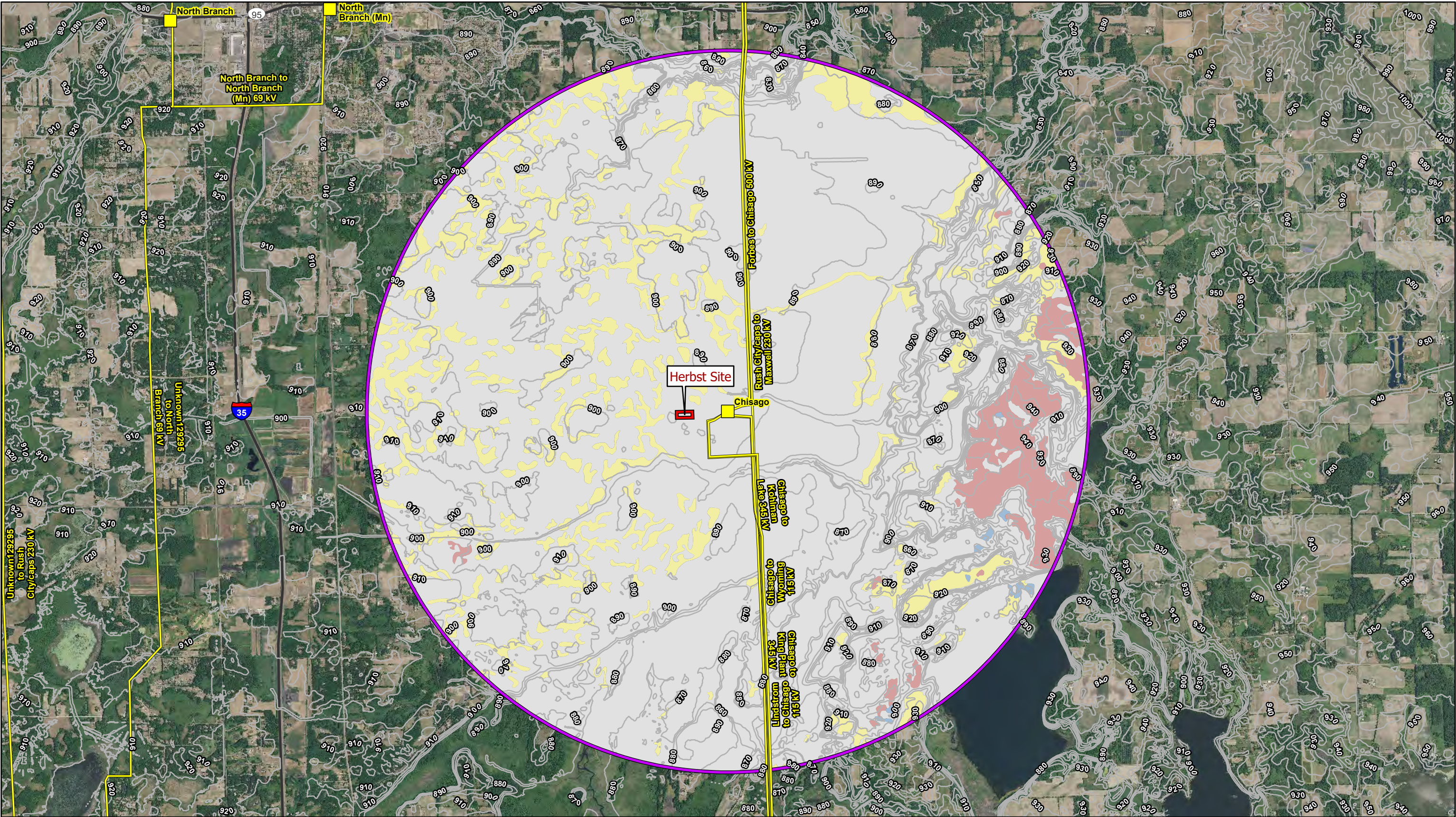
- Existing Substation
- Major Road

- Existing Transmission Line**
- Chisago to King Plant 345 kV
 - Chisago to Kohlman Lake 345 kV

- Chisago to Wyoming 115 kV
- Forbes to Chisago 500 kV
- Rush City/caps to Maxwell 230 kV



Northern Crescent Solar & Storage Project
Faribault County, Minnesota
MSSA Insolation at
Herbst Site
FIGURE 9 (February, 2024)



Data Source(s): Westwood (2024); NAIP (2021); U.S. Census Bureau (2021); NRCS Web Soil Survey (Accessed 2024); HIFLD (2022 & 2023) USGS 3DEP (Accessed 2024).

Legend

- Herbst Site
- Chisago Substation 3-Mile Buffer
- Existing Transmission Line
- Substation
- Major Road
- 10ft Contour

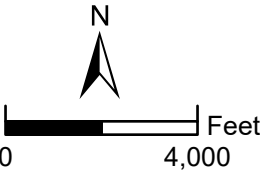
Prime Farmland Classification - Chisago Substation 3-Mile Buffer Acreage (Percent Total)

All areas are prime farmland - 616 Acres (3.4%)

Farmland of statewide importance - 2377 Acres (13.14%)

Prime farmland if drained - 28 Acres (0.15%)

Not prime farmland - 15073 Acres (83.31%)



Northern Crescent Solar & Storage Project

Faribault County, Minnesota

Herbst Site & Chisago Substation Prime Farmland & Topography

FIGURE 10 (February, 2024)



Data Source(s): Westwood (2024); NAIP (2021); U.S. Census Bureau (2023); NRCS Web Soil Survey (Accessed 2024) HIFLD (2022 & 2023).

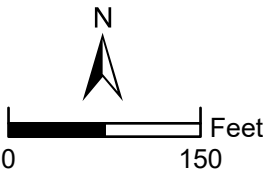
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Legend

-  Herbst Site
-  Existing Transmission Line
-  Substation

Prime Farmland Classification - Project Area Acreage (Percent Total)

 Not prime farmland - 4 Acres (100%)



Northern Crescent Solar & Storage Project

Faribault County, Minnesota

Herbst Site

Prime Farmland

FIGURE 10a (February, 2024)

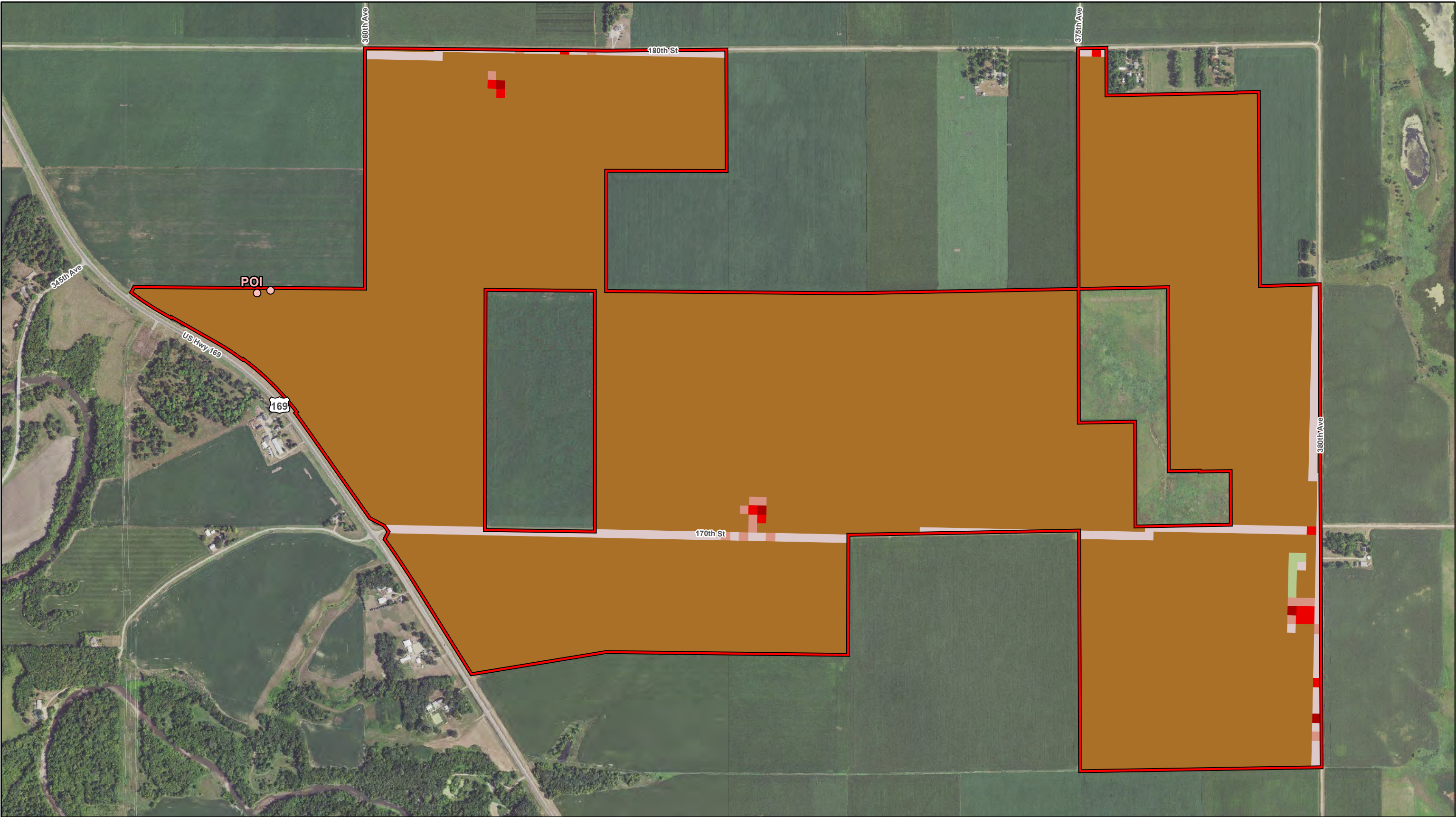


-  Project Area
-  POI 3-Mile Buffer
-  County Boundary
-  City/Civil Township Boundary
-  Proposed Point of Interconnection (POI)

- PADUS Designation**
- Conservation Easement
 - Resource Management Area
 - State Conservation Area

Faribault County, Minnesota
Project Area Site
& POI Constraints
FIGURE 11 (February, 2024)

Map Document N:\004\069\00_GIS_ArcPro\004\069_040_PrimeFarmlandExhibits_240201\004\069_040_PrimeFarmlandExhibits_240201.aprx 7/10/2024 4:24 PM MMQuade



Data Source(s): Westwood (2024); NAIP (2021); U.S. Census Bureau (2021 & 2022); NLCD (2021).

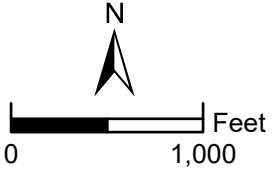
Legend

-  Project Area
-  Proposed Point of Interconnection (POI)

NLCD Land Cover Type - Project Area Acreage (Percent Total)

- | | | | |
|---|--|---|---|
|  Developed, Open Space - 33 Acres (2.77%) |  Developed, Low Intensity - 4 Acres (0.3%) |  Developed High Intensity - 1 Acre (0.08%) |  Pasture/Hay - <1 Acre (0.01%) |
|  Developed, Medium Intensity - 3 Acres (0.22%) |  Mixed Forest - 1 Acre (0.11%) |  Grassland/Herbaceous - <1 Acre (0%) |  Cultivated Crops - 1138 Acres (96.5%) |
| | |  Emergent Wetlands - <1 Acre (0.01%) | |

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Northern Crescent Solar & Storage Project

Faribault County, Minnesota

Project Area
Land Cover

FIGURE 11a (July, 2024)