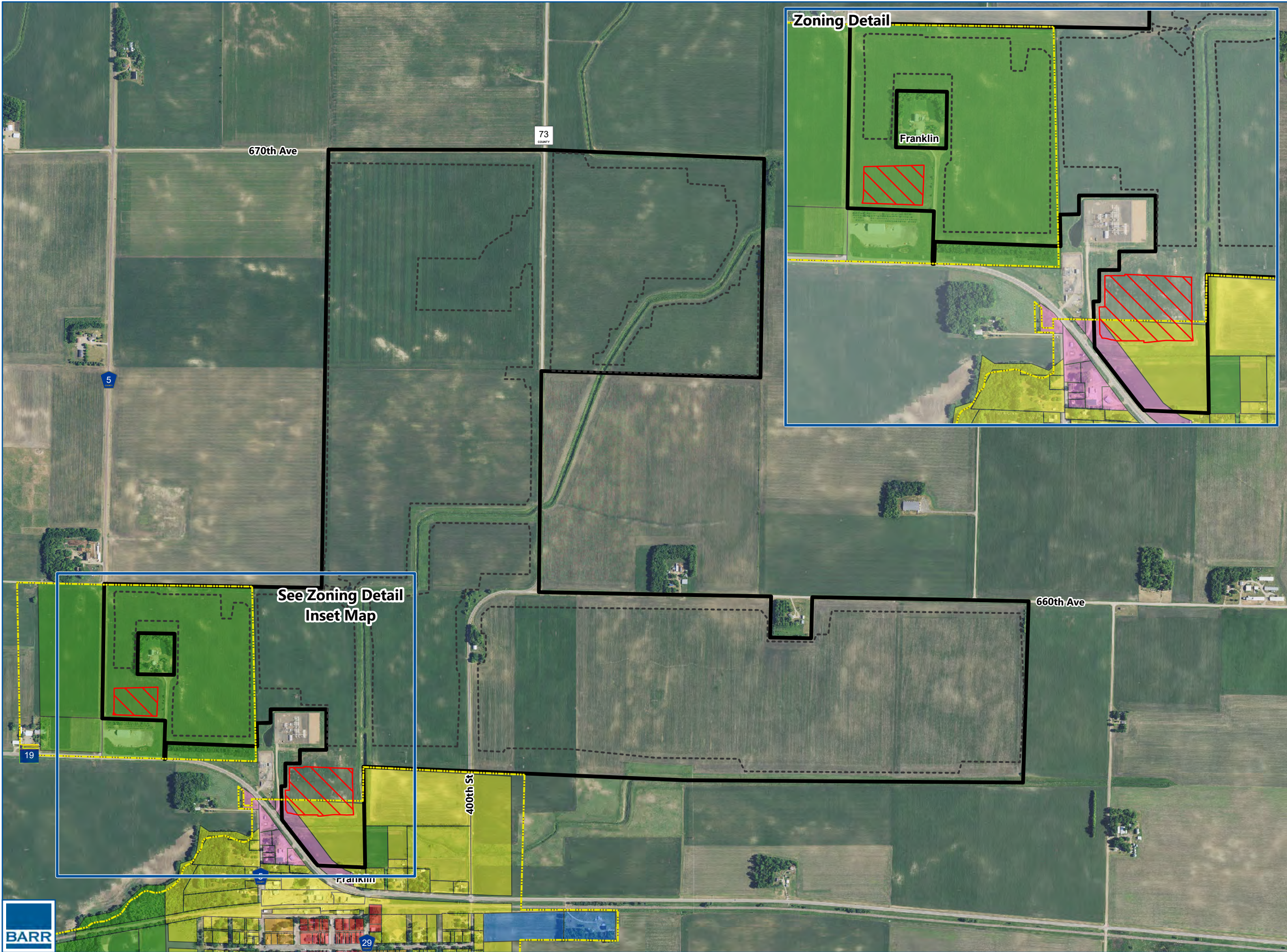




Zoning Detail

- Site
 - Anticipated Development Area
 - Laydown Yard (temporary)
 - Municipal Boundary
- Franklin Zoning***
- Agriculture
 - M-1
 - R-1 (Low Density Residential)
 - R-2
 - B-1
 - B-2 (Highway Business District)

*Franklin Zoning Ordinance Zoning Map, 2023



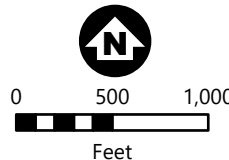
0 550 1,100
Feet

Map 10
FRANKLIN ZONING
Site Permit Application
Birch Coulee Solar LLC



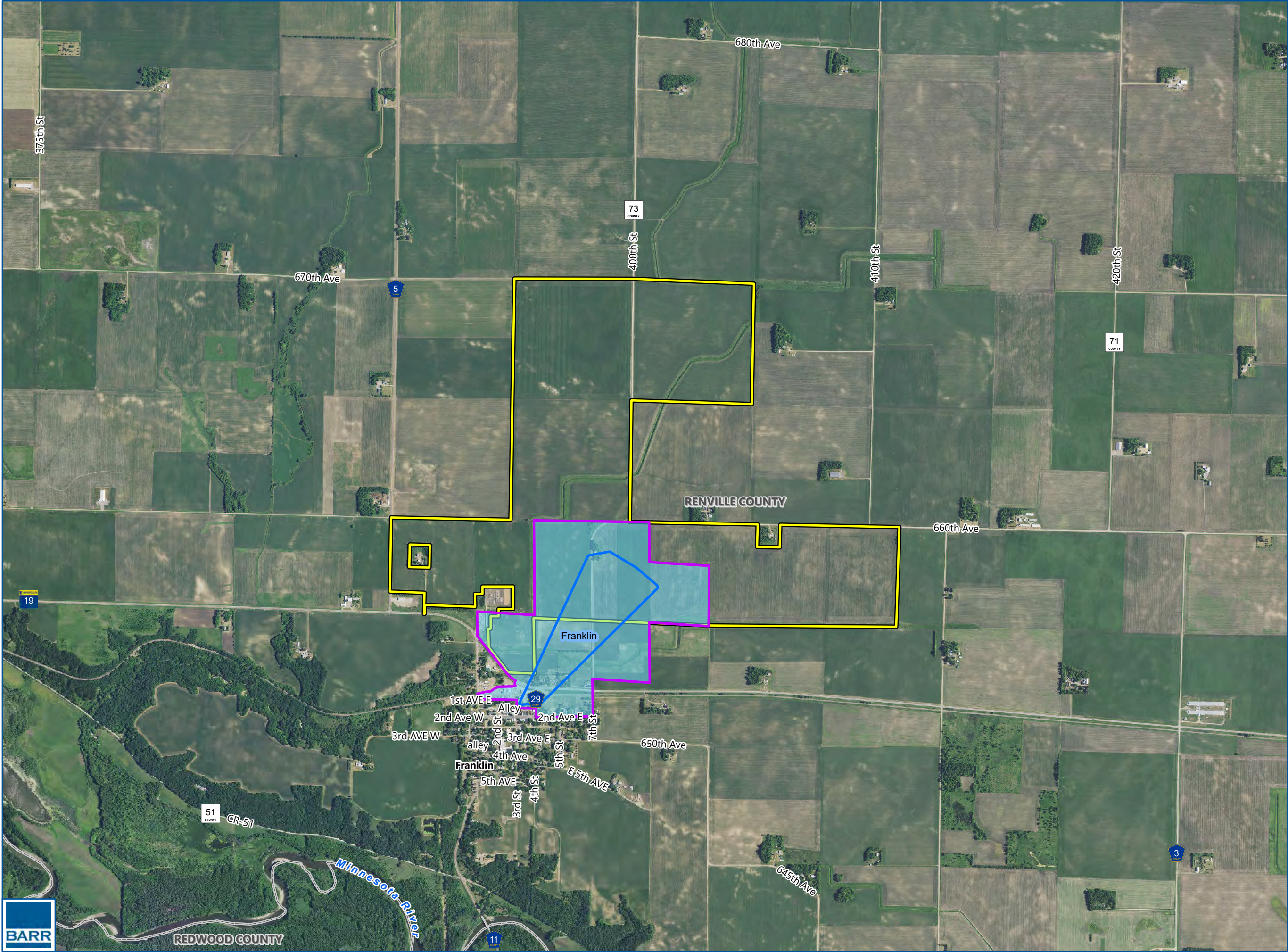


-  Site
- NLCD 2021 Land Cover**
-  Developed, Open Space
 -  Developed, Low Intensity
 -  Developed, Medium Intensity
 -  Developed, High Intensity
 -  Barren Land
 -  Deciduous Forest
 -  Mixed Forest
 -  Cultivated Crops
 -  Emergent Herbaceous Wetlands



Map 11
LAND COVER
Site Permit Application
Birch Coulee Solar LLC





Site

County Boundary

Wellhead Protection Areas (WPA)

Drinking Water Supply Management Areas (DWSMA)

Drinking Water Supply Management Area Vulnerability

Very High

High

Moderate

Low

Very Low

01,0002,000

Feet

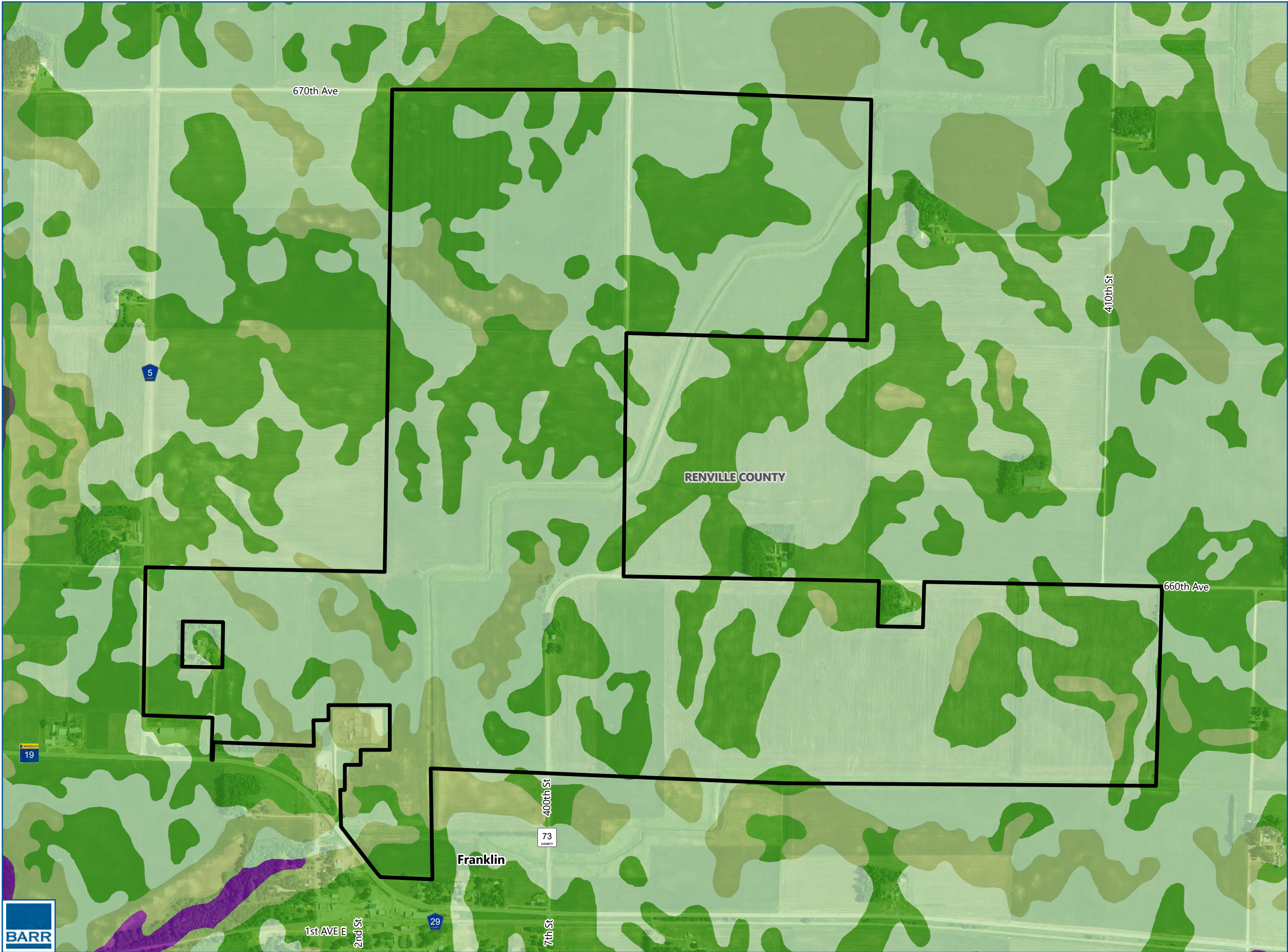
USDA NAIP Imagery, 2021

Map 12

WELLHEAD PROTECTION AREAS

Site Permit Application

Birch Coulee Solar LLC



 Site

Farmland Classification

-  Prime farmland
-  Farmland of statewide importance
-  Prime farmland if drained
-  Not prime farmland
-  Prime farmland if protected from flooding or not frequently flooded during the growing season

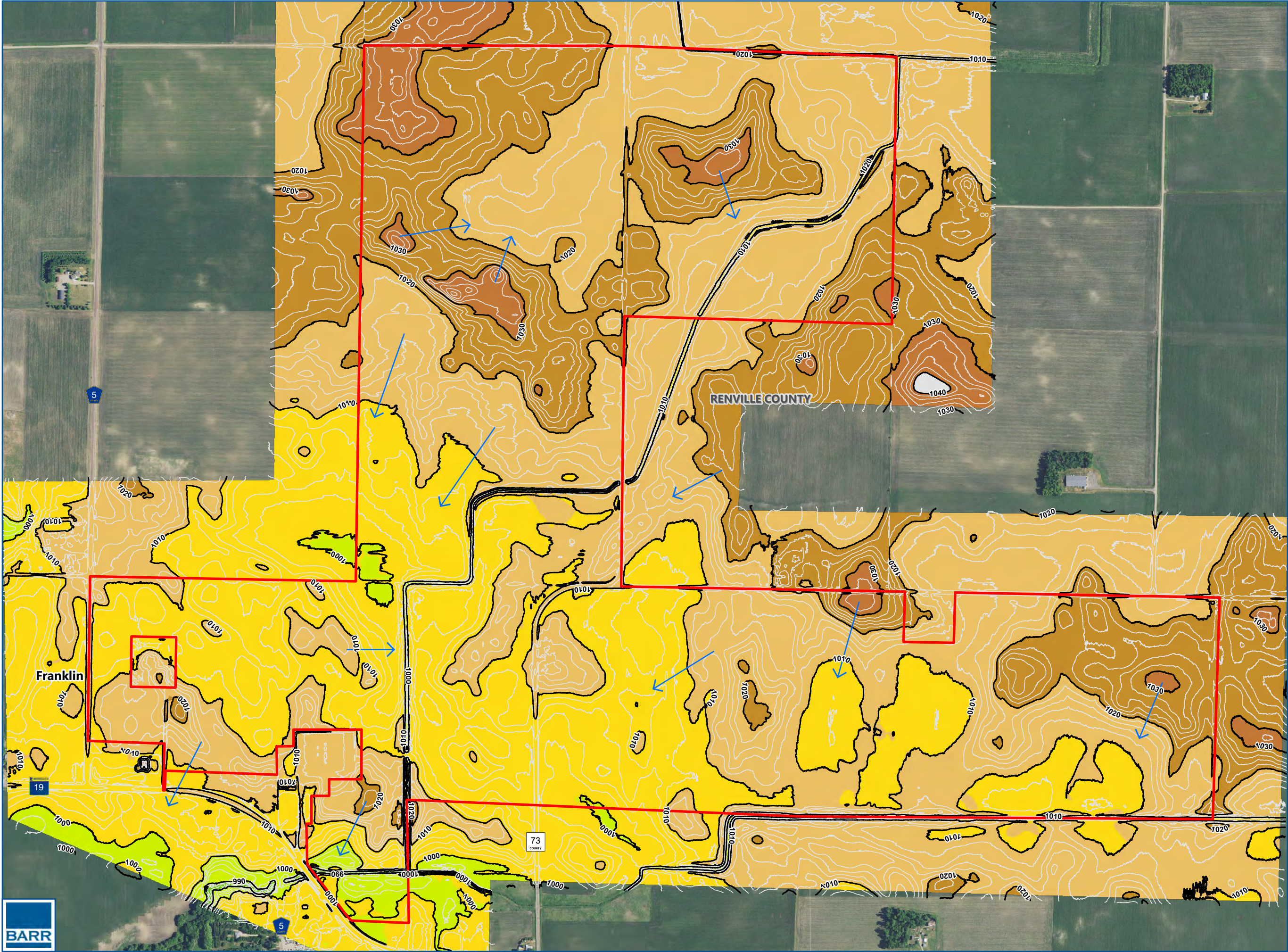


0 500 1,000
Feet

USDA NAIP Imagery, 2021

Map 14
PRIME FARMLAND
Site Permit Application
Birch Coulee Solar LLC





Site

10' Index Contour

2' Intermediate Contour

Surface Elevation (ft)

	970.1 - 980.0
	980.1 - 990.0
	990.1 - 1,000.0
	1,000.1 - 1,010.0
	1,010.1 - 1,020.0
	1,020.1 - 1,030.0
	1,030.1 - 1,040.0
	1,040.1 - 1,050.0

Surface Flow

0 450 900

Feet

USDA NAIP Imagery, 2021

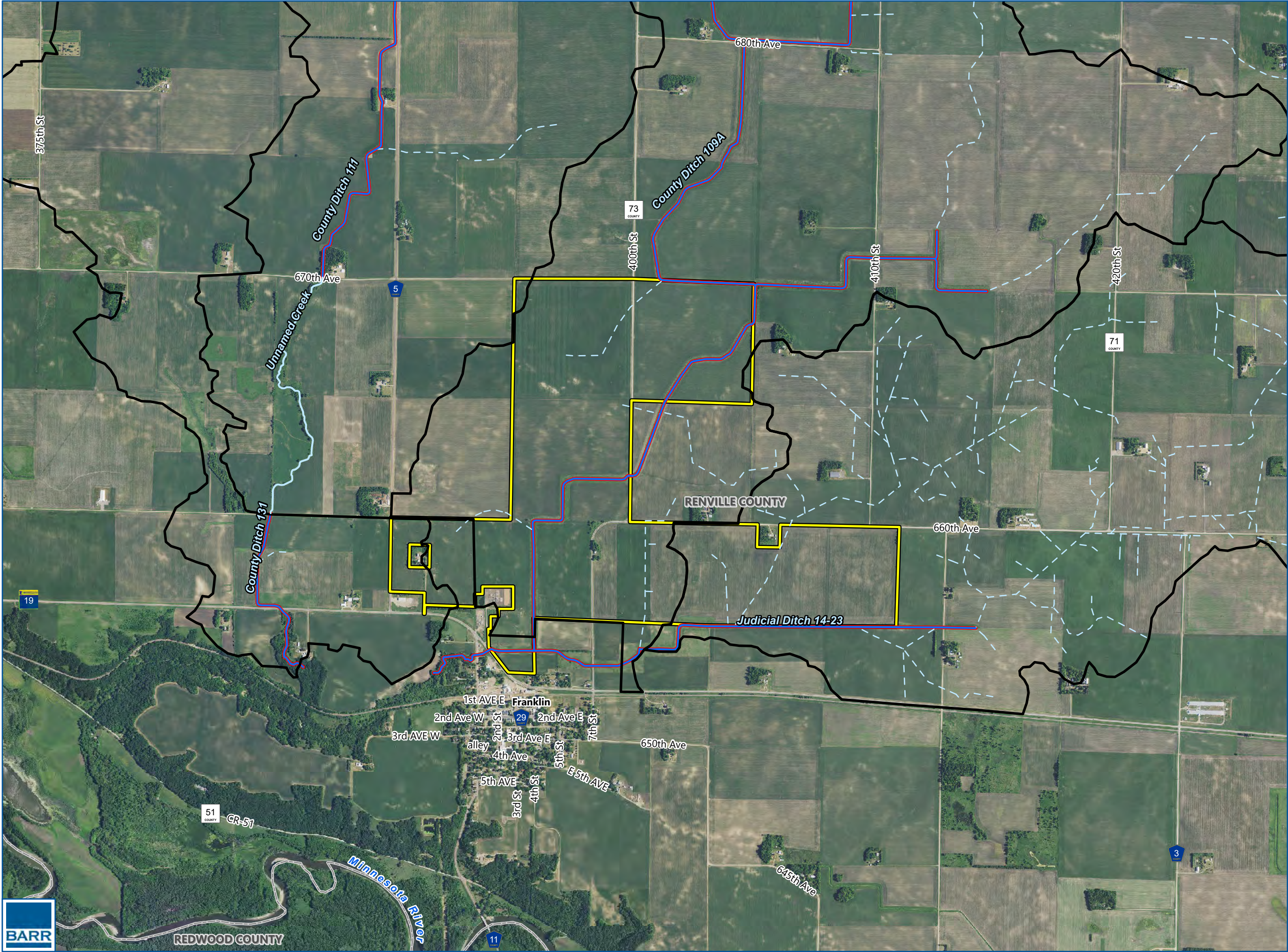
Map 15

TOPOGRAPHY

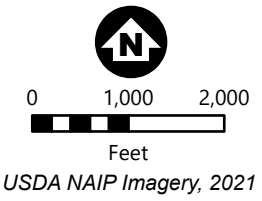
Site Permit Application

Birch Coulee Solar LLC





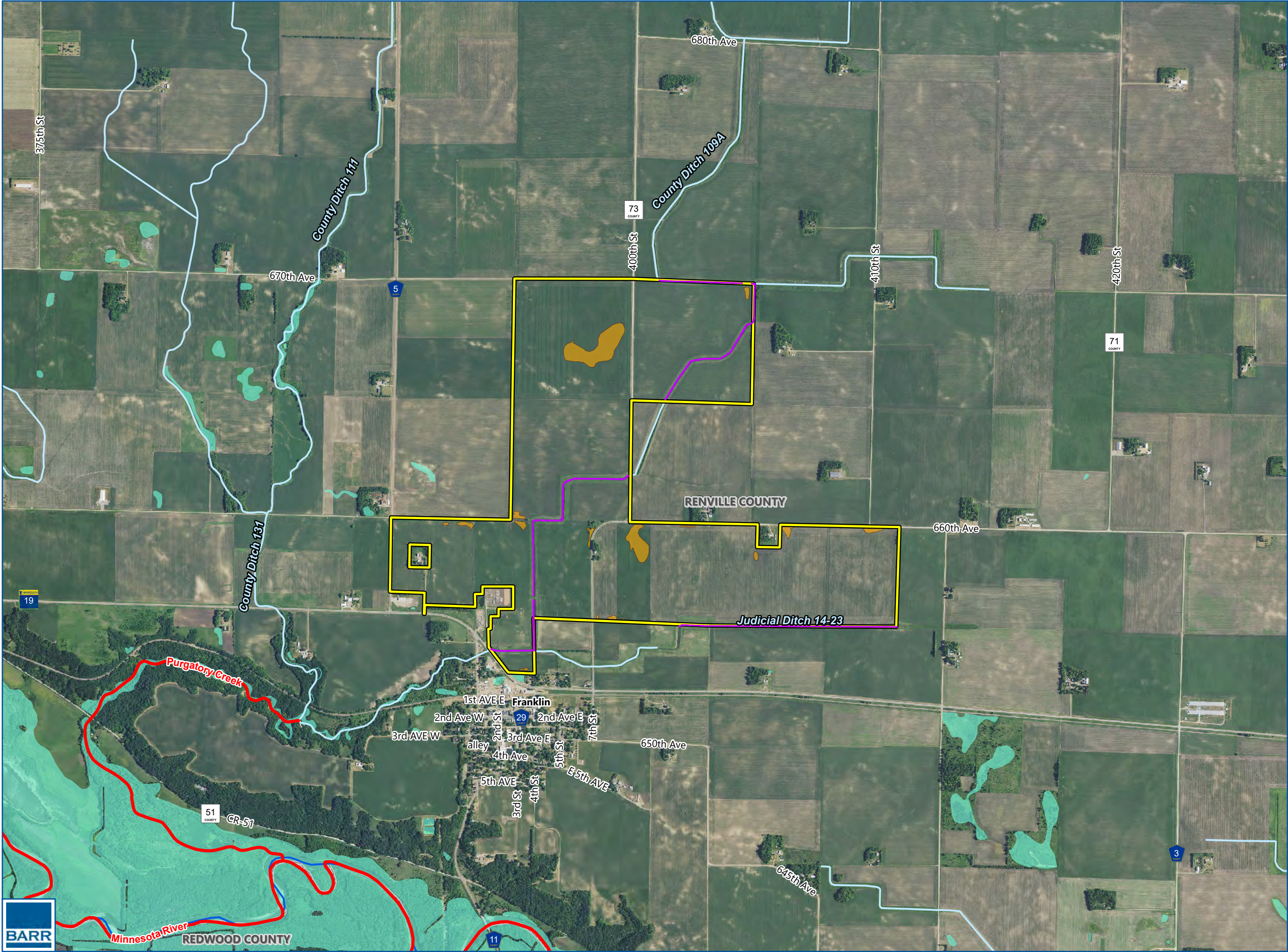
- Site
- County Boundary
- County Ditch
- County Drain Tiles
- Natural Waterway
- Designated 16.5' Drain Buffer per Buffer Protection Map
- County-Mapped Subwatersheds



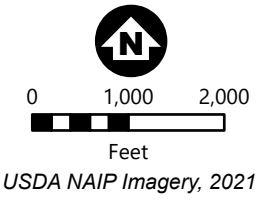
Map 16
COUNTY MANAGED
DRAINS AND TILE
Site Permit Application
Birch Coulee Solar LLC



Barr Footer: ArcGISPro 3.3, 2024-07-05 11:16 File: \\Projects\\23\\6511018\\Maps\\Reports\\Site Permit Application\\SPA Figures.aprx Layout: Map 17-Surface Waters User: EMA



- Site
- Public Water
- Watercourse (MN DNR)
- NHD Flowline
- Field-Identified Watercourse
- Field-Identified Wetland Boundaries
- Wetland (MN NWI)
- Impaired Stream (MPCA, 2022)



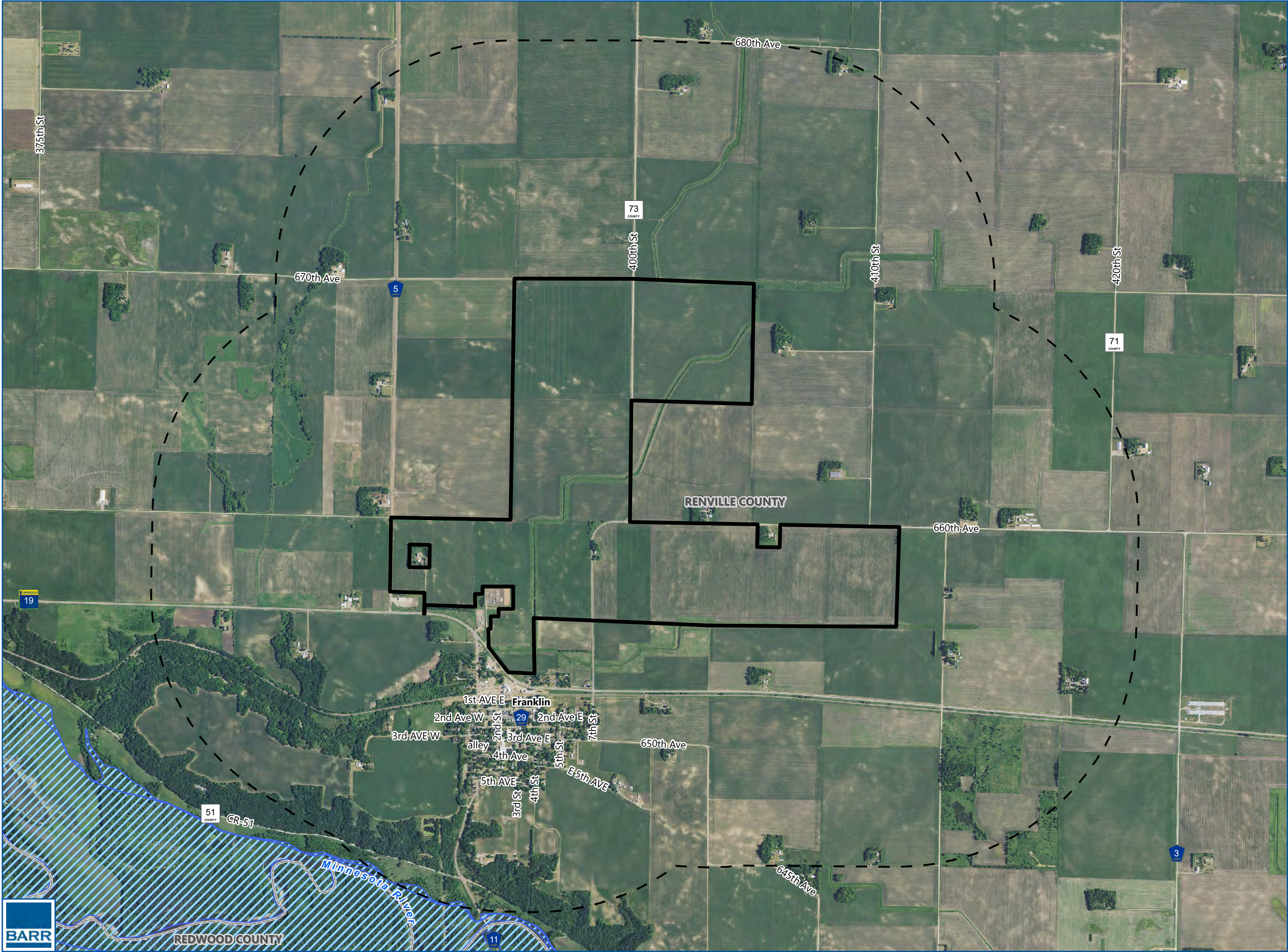
Map 17

SURFACE WATERS

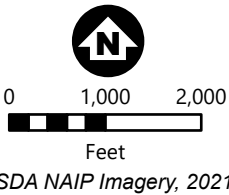
Site Permit Application

Birch Coulee Solar LLC

Barr Footer: ArcGISPro 3.3, 2024-07-05 11:16 File: \\Projects\\23\\651018\\Maps\\Reports\\Site Permit Application\\SPA Figures.aprx Layout: Map18-FEMA Floodplain User: EMA



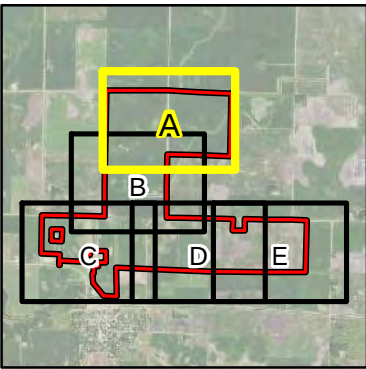
- Site
- 1 Mile Site Radius
- County Boundary
- FEMA Floodplain



USDA NAIP Imagery, 2021

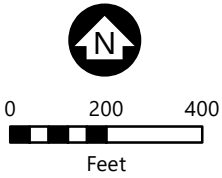
Map 18
FEMA FLOODPLAIN
Site Permit Application
Birch Coulee Solar LLC





- Site
- Field-Identified Wetland Boundaries
- Field-Identified Watercourse
- Culvert
- Upland Sample Point
- Wetland Sample Point

Wetland Name	Acres
WB01	0.55
WB02	13.69
WB03a	0.64
WB03b	0.67
WB04	5.52
WB05a	0.16
WB05b	0.15
WB06	0.82
WB07	0.51
WB08	0.8
WB09	0.35
WB10	0.64
WB11	0.08
WB12	0.15
WB13	0.14
WB14	0.68
WB15	0.55
WB16	0.2

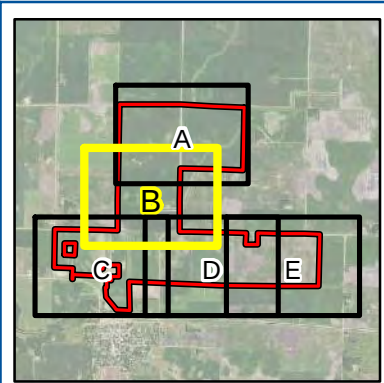
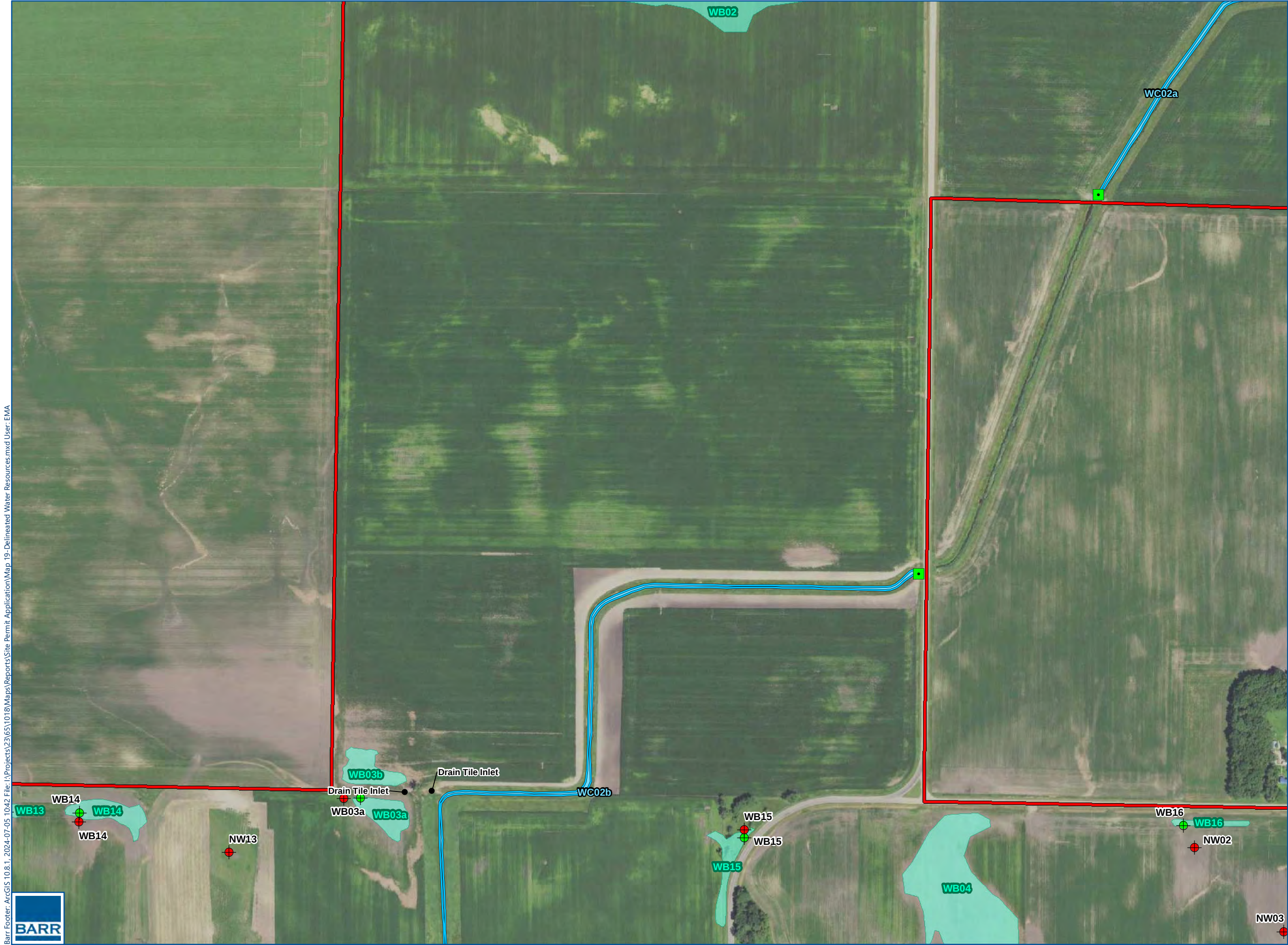


USDA NAIP Imagery, 2019

DELINEATED WATER RESOURCES
Site Permit Application
Birch Coulee Solar LLC

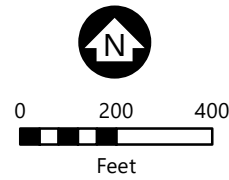
Map 19A

Barr Footer: ArcGIS 10.8.1, 2024-07-05 10:42 File: I:\Projects\23\65\1018\Maps\Reports\Site Permit Application\Map 19- Delineated Water Resources.mxd User: EMA



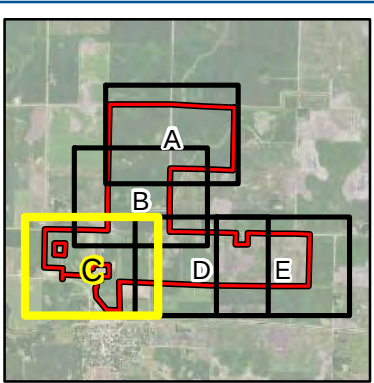
- Site
- Field-Identified Wetland Boundaries
- Field-Identified Watercourse
- Culvert
- Upland Sample Point
- Wetland Sample Point

Wetland Name	Acres
WB01	0.55
WB02	13.69
WB03a	0.64
WB03b	0.67
WB04	5.52
WB05a	0.16
WB05b	0.15
WB06	0.82
WB07	0.51
WB08	0.8
WB09	0.35
WB10	0.64
WB11	0.08
WB12	0.15
WB13	0.14
WB14	0.68
WB15	0.55
WB16	0.2



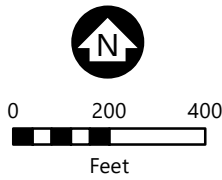
USDA NAIP Imagery, 2019

DELINEATED WATER RESOURCES
Site Permit Application
Birch Coulee Solar LLC
Map 19B



- Site
- Field-Identified Wetland Boundaries
- Field-Identified Watercourse
- Culvert
- Upland Sample Point
- Wetland Sample Point

Wetland Name	Acres
WB01	0.55
WB02	13.69
WB03a	0.64
WB03b	0.67
WB04	5.52
WB05a	0.16
WB05b	0.15
WB06	0.82
WB07	0.51
WB08	0.8
WB09	0.35
WB10	0.64
WB11	0.08
WB12	0.15
WB13	0.14
WB14	0.68
WB15	0.55
WB16	0.2

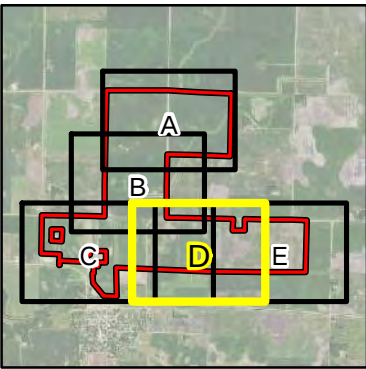
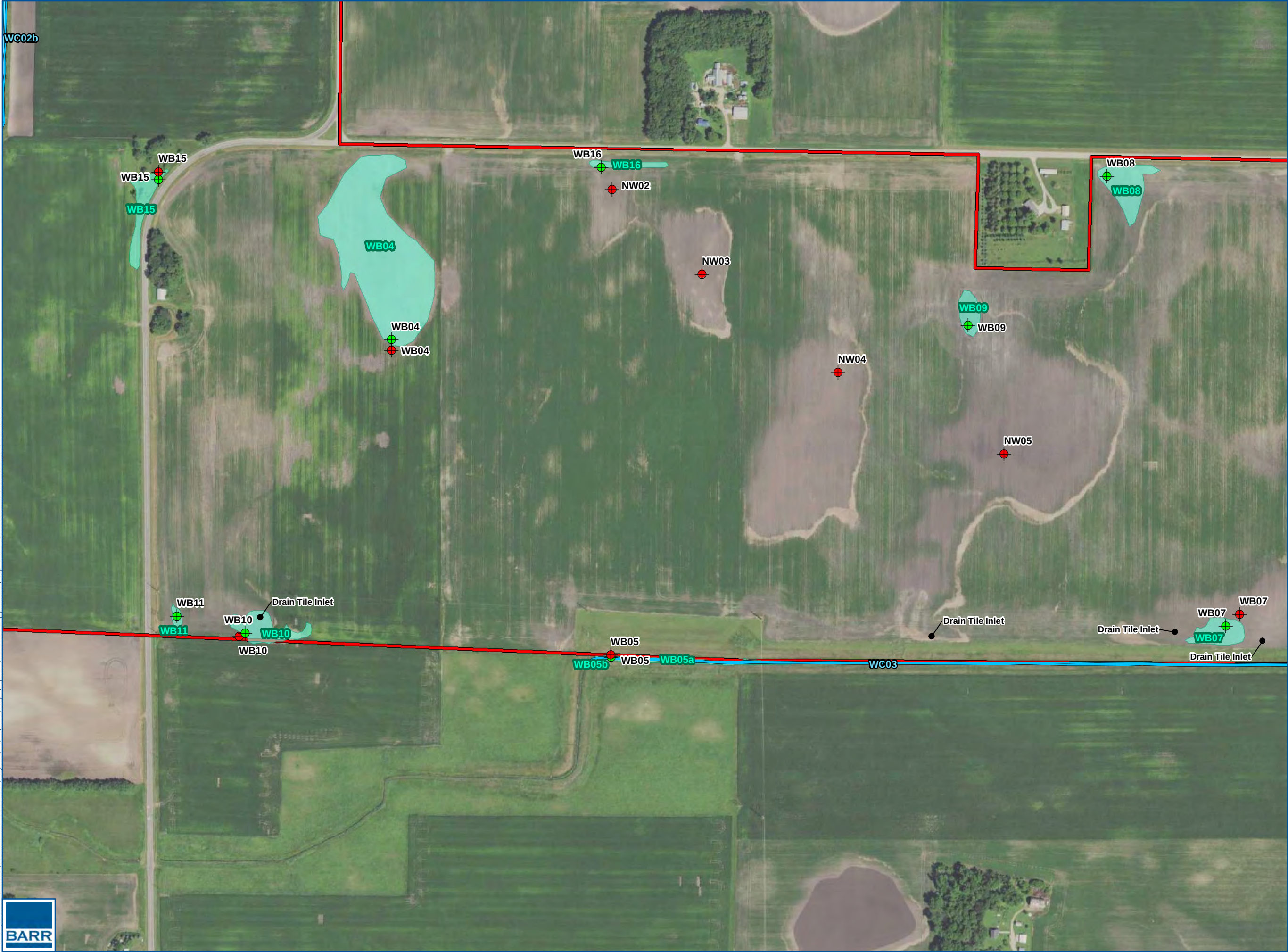


USDA NAIP Imagery, 2019

DELINEATED WATER RESOURCES

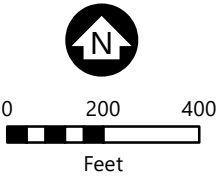
Site Permit Application
Birch Coulee Solar LLC

Map 19C



- Site
- Field-Identified Wetland Boundaries
- Field-Identified Watercourse
- Culvert
- Upland Sample Point
- Wetland Sample Point

Wetland Name	Acres
WB01	0.55
WB02	13.69
WB03a	0.64
WB03b	0.67
WB04	5.52
WB05a	0.16
WB05b	0.15
WB06	0.82
WB07	0.51
WB08	0.8
WB09	0.35
WB10	0.64
WB11	0.08
WB12	0.15
WB13	0.14
WB14	0.68
WB15	0.55
WB16	0.2



USDA NAIP Imagery, 2019



Barr Footer: ArcGIS 10.8.1, 2024-07-05 10:42 File: \\Projects\\23\\651018\\Maps\\Reports\\Site Permit Application\\Map 19- Delineated Water Resources.mxd User: EMA



- Site
- Field-Identified Wetland Boundaries
- Field-Identified Watercourse
- Culvert
- Upland Sample Point
- Wetland Sample Point

Wetland Name	Acres
WB01	0.55
WB02	13.69
WB03a	0.64
WB03b	0.67
WB04	5.52
WB05a	0.16
WB05b	0.15
WB06	0.82
WB07	0.51
WB08	0.8
WB09	0.35
WB10	0.64
WB11	0.08
WB12	0.15
WB13	0.14
WB14	0.68
WB15	0.55
WB16	0.2

0 200 400
Feet

USDA NAIP Imagery, 2019

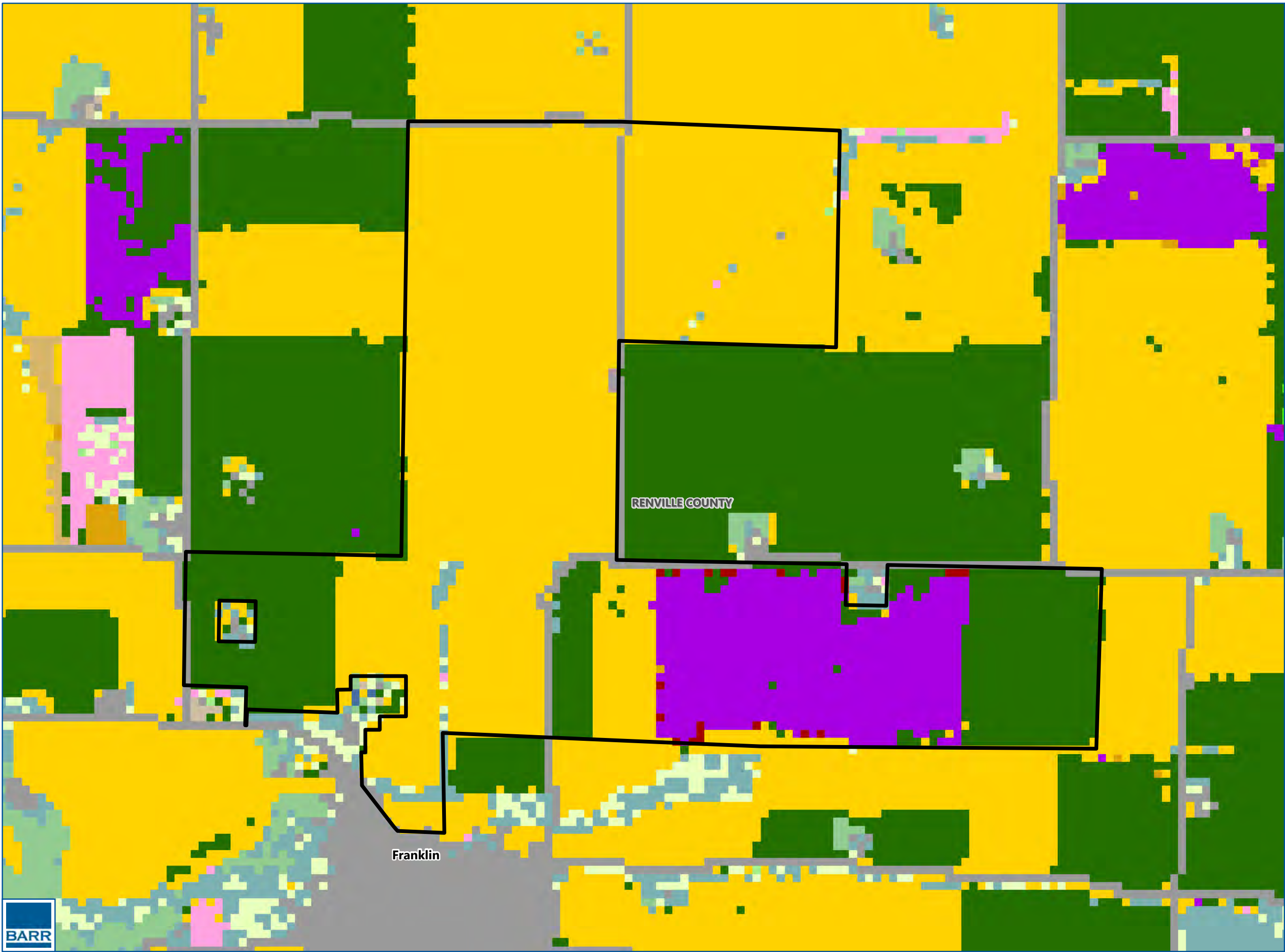
DELINEATED WATER RESOURCES

Site Permit Application
Birch Coulee Solar LLC

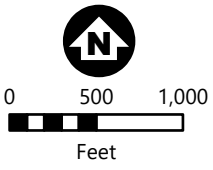
Map 19E

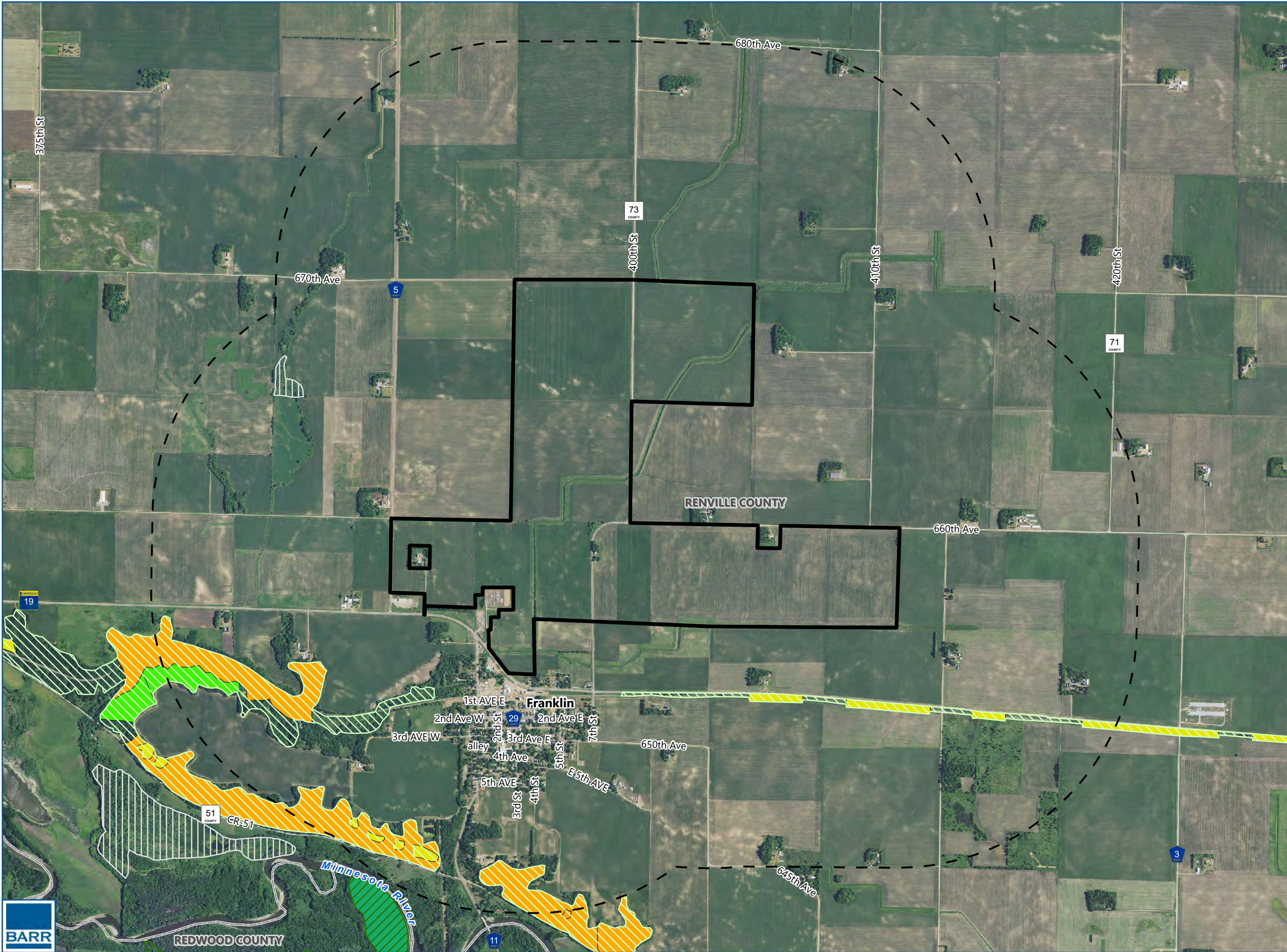


Barr Footer: ArcGISPro 3.3, 2024-07-05 11:16 File: \\Projects\23\651018\Maps\Reports\Site Permit Application\SPA Figures.aprx Layout: Map 20-CropScape Data, 2023 User: EMA



- CropScape, 2023**
- Corn
 - Soybeans
 - Sweet Corn
 - Spring Wheat
 - Alfalfa
 - Other Hay/Non Alfalfa
 - Sugarbeets
 - Dry Beans
 - Peas
 - Open Water
 - Developed/Open Space
 - Developed/Low Intensity
 - Developed/Med Intensity
 - Developed/High Intensity
 - Barren
 - Deciduous Forest
 - Mixed Forest
 - Grassland/Pasture
 - Woody Wetlands
 - Herbaceous Wetlands





Site

1 Mile Site Radius

County Boundary

Wildlife Management Areas (WMA)*

Scientific and Natural Area*

DNR Native Plant Communities

Fire-Dependent Forest/Woodland System

Floodplain Forest System

Mesic Hardwood Forest System

Upland Prairie System

MBS Sites of Biodiversity Significance

Outstanding

Moderate

Below

**None within view extent*

0 1,000 2,000 Feet
USDA NAIP Imagery, 2021

Map 21
RARE AND UNIQUE NATURAL FEATURES
Site Permit Application
Birch Coulee Solar LLC