

Project Figures

Midwater Energy Storage Project

Shell Rock Township,
Freeborn County, Minnesota

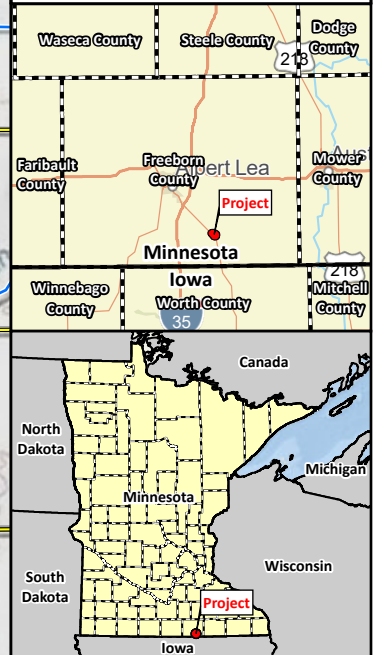
Project Location &
USGS Topography

Figure 1 (August, 2024)

Legend

- Project Area
- State Boundary
- County Boundary
- PLSS Township Boundary
- PLSS Section Boundary
- Civil Township Boundary
- Municipal Boundary
- NHD Waterbody
- NHD Flowline
- Major Road
- Road
- Railroad

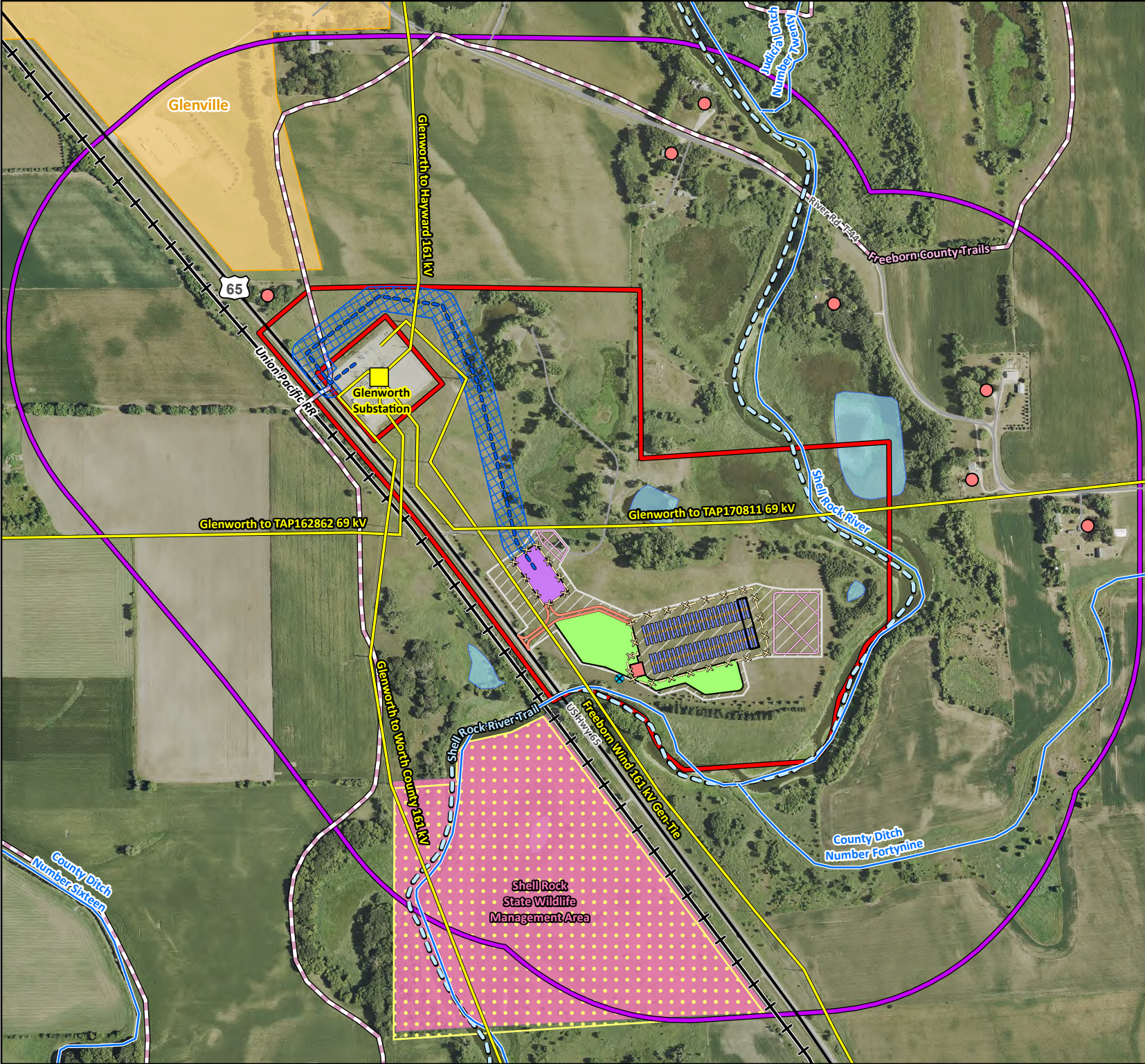
Data Source(s): Westwood (2024); ESRI WMS USA Topo & World Streets Basemaps (Accessed 2024); PLSS (2022); U.S. Census Bureau (2021 & 2023); MNDOT (2024); NHD (2024).



Midwater Energy Storage Project
Shell Rock Township,
Freeborn County, Minnesota

Project Area & Facilities

Figure 2 (November, 2024)



Legend

- Project Area
- Project Area Quarter-Mile Buffer
- Municipal Boundary
- Wildlife Management Area
- NHD Waterbody
- NHD Flowline
- Water Trail
- Snowmobile Trail
- Existing Transmission Line
- Existing Substation
- Receptor
- Major Road
- Road
- Railroad

PADUS Designation

- State Conservation Area

Proposed Site Features

- Proposed BESS Facility & Project Development Area
- Proposed Substation
- Proposed O&M Facility
- Proposed Auxiliary Transformer
- Proposed BESS Unit
- Proposed Future Augmentation Area
- Proposed Laydown Yard
- Proposed Basin Area
- Proposed HVTL Facility & Project Development Area
- Proposed Fence Line
- Proposed Tap Line
- Proposed Access Road
- Proposed Leach Field

Data Source(s): Westwood (2024); NAIP (2023); MNDOT (2024); MNDNR (2022 & 2024); NHD (2024); HIFLD (2022 & 2024); U.S. Census Bureau (2021 & 2023); PADUS (2024).



Map Document: N:\0046089\001_GIS_AcePro\00046089_040_SPAExhibits_20240610\00046089_040_SPAExhibits_20240610.aprx 11/6/2024 9:54 AM MMQuade

Midwater Energy Storage Project

Shell Rock Township,
Freeborn County, Minnesota

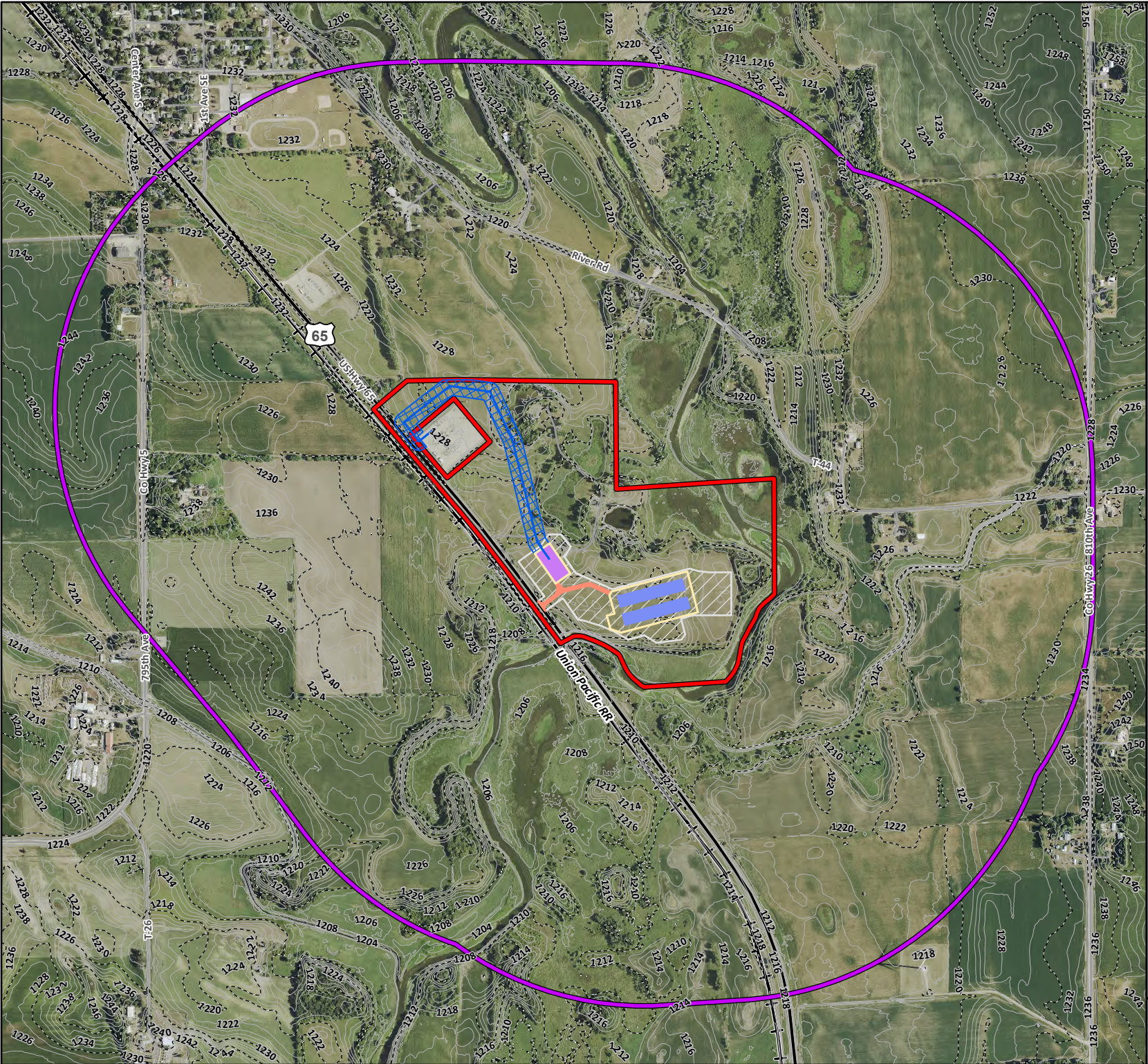
Topographic Map

Figure 3 (September, 2024)

Legend

-  Project Area
-  Project Area Half-Mile Buffer
-  Major Road
-  Road
-  Railroad
-  10ft Contour
-  2ft Contour
- Proposed Site Features**
 -  Proposed BESS Facility & Project Development Area
 -  Proposed Substation
 -  Proposed BESS Area
 -  Proposed HVTL Facility & Project Development Area
 -  Proposed Fence Line
 -  Proposed Tap Line
 -  Proposed Access Road

Data Source(s): Westwood (2024); NAIP (2023); U.S. Census Bureau (2021 & 2023); USGS 3DEP (Accessed 2024).



Midwater Energy Storage Project

Shell Rock Township,
Freeborn County, Minnesota

Land Ownership &
Parcel Boundaries

Figure 4 (September, 2024)

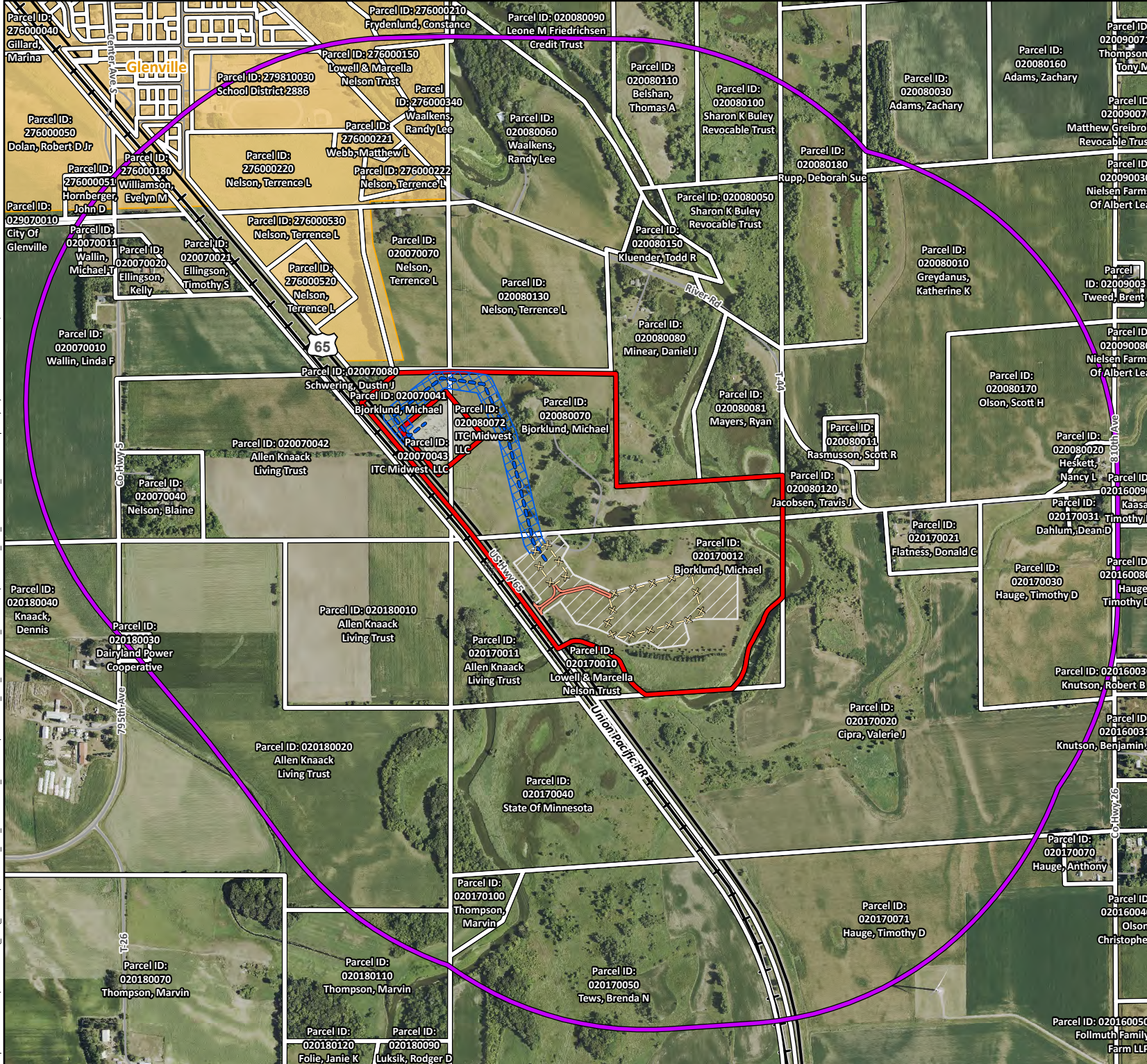
Legend

-  Project Area
-  Project Area Half-Mile Buffer
-  Parcel Boundary
-  Municipal Boundary
-  Major Road
-  Road
-  Railroad

Proposed Site Features

-  Proposed BESS Facility & Project Development Area
-  Proposed HVTL Facility & Project Development Area
-  Proposed Fence Line
-  Proposed Tap Line
-  Proposed Access Road

Data Source(s): Westwood (2024); NAIP (2023); MNDOT (2024);
U.S. Census Bureau (2021 & 2023).



Midwater Energy Storage Project

Shell Rock Township,
Freeborn County, Minnesota

Land Cover

Figure 5 (August, 2024)

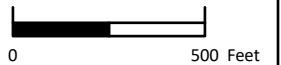
Legend

-  Project Area
-  Major Road
-  Road
-  Railroad

NLCD Classification (Acreage & Percent of Project Area)

-  Open Water: 4.89 Acres, 4.68%
-  Developed, Open Space: 1.64 Acres, 1.57%
-  Developed, Low Intensity: 4.6 Acres, 4.4%
-  Developed, Medium Intensity: 0.41 Acres, 0.39%
-  Developed, High Intensity: 0.02 Acres, 0.02%
-  Barren Land: 0.06 Acres, 0.06%
-  Herbaceous: 20.04 Acres, 19.19%
-  Hay/Pasture: 43.1 Acres, 41.28%
-  Cultivated Crops: 7.63 Acres, 7.31%
-  Woody Wetlands: 1.78 Acres, 1.7%
-  Emergent Herbaceous Wetlands: 20.23 Acres, 19.38%

Data Source(s): Westwood (2024); NAIP (2023); U.S. Census Bureau (2021 & 2023); NLCD (2021).



Midwater Energy Storage Project
 Shell Rock Township,
 Freeborn County, Minnesota
 Public Land Ownership
 & Recreation
 Figure 6 (August, 2024)

- Legend**
- Project Area
 - Project Area Quarter-Mile Buffer
 - Project Area 5-Mile Buffer
 - State Boundary
 - County Boundary
 - Municipal Boundary
 - National Wildlife Refuge
 - State Park
 - Wildlife Management Area
 - Snowmobile Trail
 - Water Trail
 - Local Park
 - Major Road
- PADUS Designation**
- State Park
 - State Conservation Area
 - Local Conservation Area
 - Resource Management Area
- PADUS Conservation Easement Unit Type**
- Agricultural Conservation Easement Program - Wetland Reserve Easements
 - Conservation Reserve Enhancement Program
 - Wetlands Reserve Program
 - Permanent Wetland Preserve
 - Waterfowl Production Area

Data Source(s): Westwood (2024); NAIP (2023); U.S. Census Bureau (2021); MNDNR (2022 & 2024); PADUS (2024); USFWS (2023); MNDOT (2024).



Shell Rock Township,
Freeborn County, Minnesota

Figure 7 (September, 2024)



Map Unit Symbol	Map Unit Name	Hydric Classification	Percent Hydric Classification
1030	Pits, sand and gravel	Non-Hydric	0
W	Water	Non-Hydric	0
41B	Estherville sandy loam, 2 to 6 percent slopes	Predominantly Non-Hydric	1
27	Dickinson fine sandy loam, 0 to 2 percent slopes	Predominantly Non-Hydric	3
156	Fairhaven loam, 0 to 2 percent slopes	Predominantly Non-Hydric	4
41C	Estherville sandy loam, 6 to 12 percent slopes	Predominantly Non-Hydric	4
5B	Dakota loam, 2 to 6 percent slopes	Predominantly Non-Hydric	4
5C	Dakota loam, 6 to 14 percent slopes	Predominantly Non-Hydric	4
41	Estherville sandy loam, 0 to 2 percent slopes	Predominantly Non-Hydric	6
5	Dakota loam, 0 to 2 percent slopes	Predominantly Non-Hydric	6
465	Kalmarville loam, frequently flooded	Predominantly Hydric	99
1055	Aquents and Histosols, ponded	All Hydric	100
392	Biscay clay loam, 0 to 2 percent slopes	All Hydric	100
517	Shandep loam	All Hydric	100
525	Muskego soils, 0 to 1 percent slopes	All Hydric	100

 Project Area

 Soil Unit Boundary

 Major Road

 Road

 Railroad

Hydric Classification

 All Hydric

 Predominantly Hydric

Proposed Site Features

 Proposed BESS Facility & Project Development Area

 Proposed HVTL Facility & Project Development Area

 Proposed Fence Line

 Proposed Tap Line

 Proposed Access Road

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



Midwater Energy Storage Project

Shell Rock Township,
Freeborn County, Minnesota

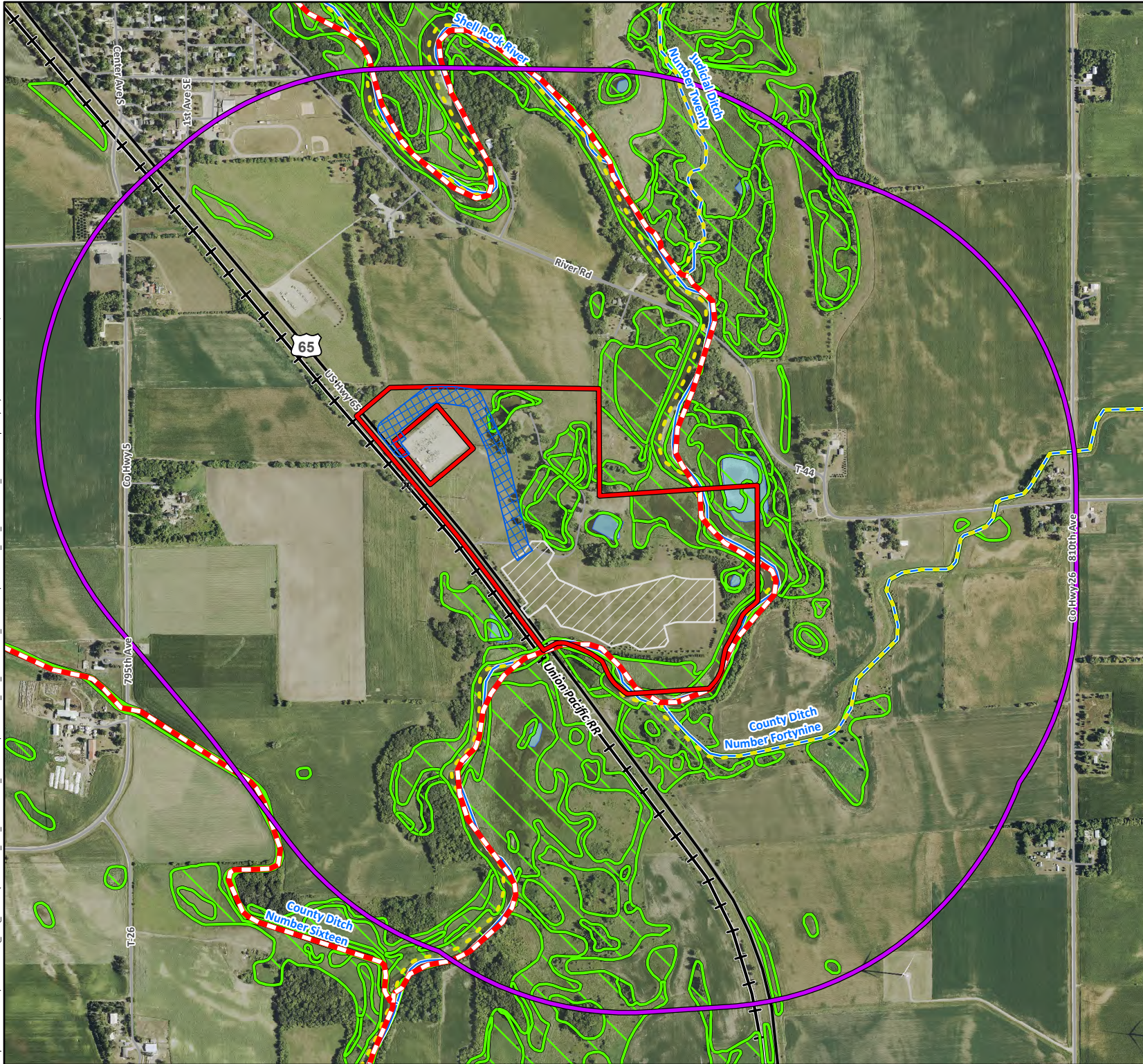
Surface Waters

Figure 8 (September, 2024)

Legend

-  Project Area
-  Project Area Half-Mile Buffer
-  NWI Wetland
-  NHD Waterbody
-  NHD Flowline
-  PWI Watercourse
-  Impaired Waterway
-  Major Road
-  Road
-  Railroad
- Proposed Site Features**
-  Proposed BESS Facility & Project Development Area
-  Proposed HVTL Facility & Project Development Area

Data Source(s): Westwood (2024); NAIP (2023); NWI (2023); NHD (2024); PWI (2024); EPA (Accessed 2024); U.S. Census Bureau (2021 & 2023).

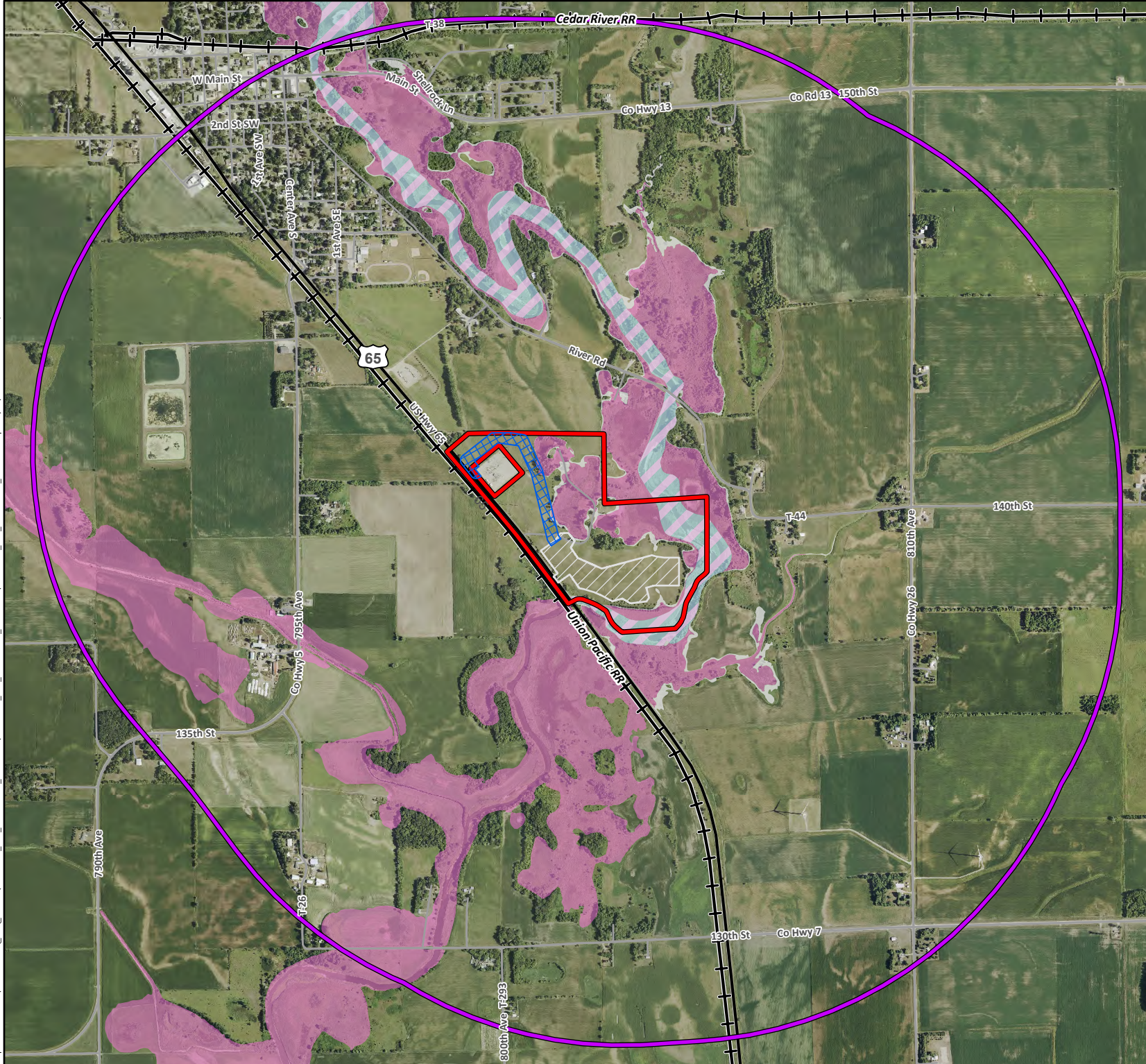


Midwater Energy Storage Project

Shell Rock Township,
Freeborn County, Minnesota

Floodplains

Figure 9 (September, 2024)



Legend

- Project Area
- Project Area 1-Mile Buffer
- Major Road
- Road
- Railroad
- FEMA Flood Zone**
 - 100-Year Floodplain
 - 500-Year Floodplain
 - Floodway
- Proposed Site Features**
 - Proposed BESS Facility & Project Development Area
 - Proposed HVTL Facility & Project Development Area

Data Source(s): Westwood (2024); NAIP (2023); FEMA (2024); U.S. Census Bureau (2021 & 2023).



Midwater Energy Storage Project

Shell Rock Township,
 Freeborn County, Minnesota

Wetlands Map

Figure 10 (September, 2024)

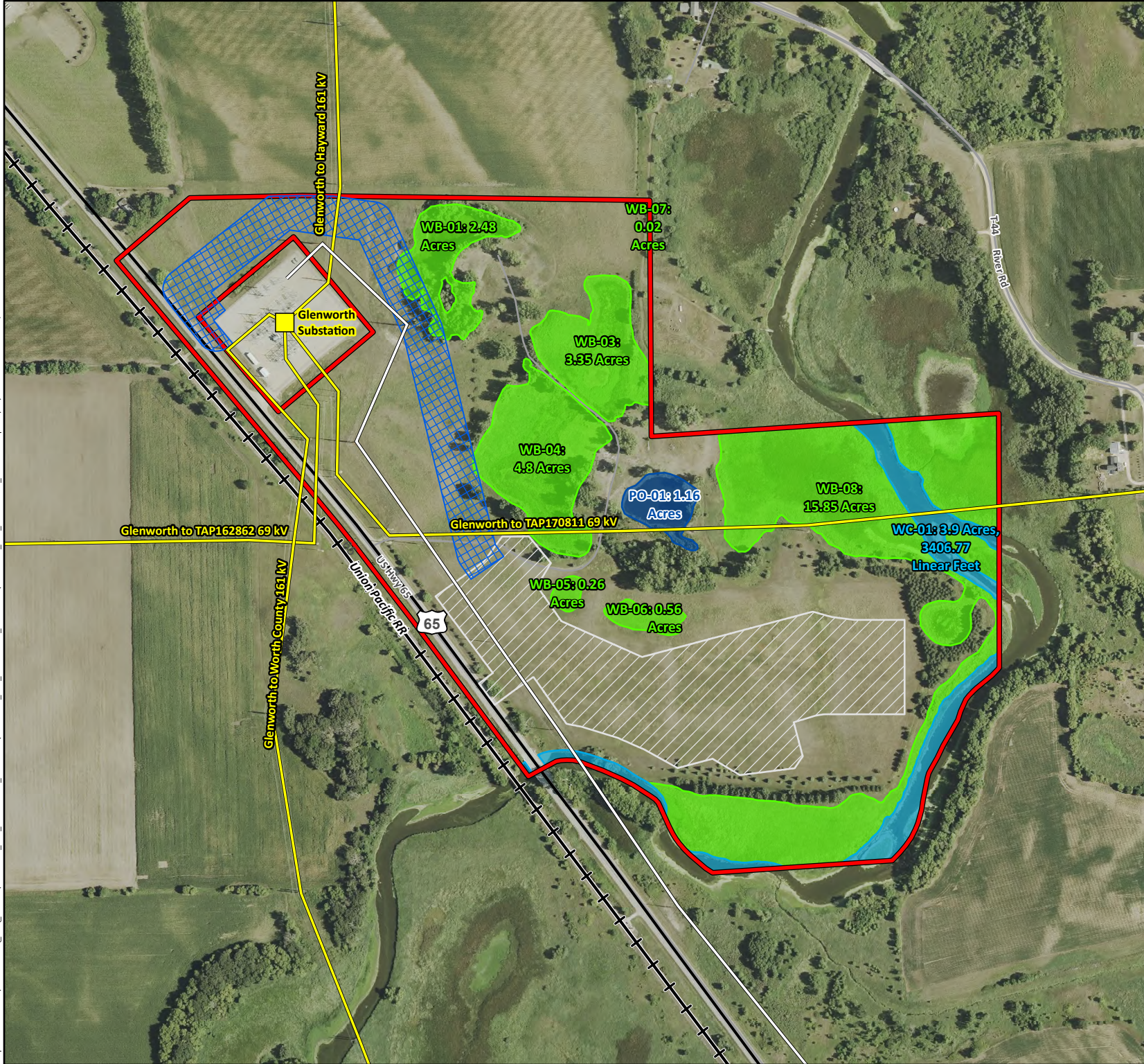
Legend

- Project Area
- Field Delineated Wetland
- Field Delineated Pond
- Field Delineated Watercourse
- Existing Transmission Line
- Existing Distribution Line
- Existing Substation
- Major Road
- Road
- Railroad

Proposed Site Features

- Proposed BESS Facility & Project Development Area
- Proposed HVTL Facility & Project Development Area

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



Midwater Energy Storage Project
Shell Rock Township,
Freeborn County, Minnesota

Unique Natural Features

Figure 11 (September, 2024)

Legend

- Project Area
- MNDNR MBS Sites of Biodiversity Significance
- MNDNR Regionally Significant Ecological Area (RSEA)
- Conservation Reserve Program (CRP) Land
- RIM Easement
- Major Road
- Road
- Railroad

Proposed Site Features

- Proposed BESS Facility & Project Development Area
- Proposed Substation
- Proposed O&M Facility
- Proposed Auxiliary Transformer
- Proposed BESS Unit
- Proposed Laydown Yard
- Proposed Basin Area
- Proposed HVTL Facility & Project Development Area
- Proposed Fence Line
- Proposed Tap Line
- Proposed Access Road
- Proposed Leach Field

Data Source(s): Westwood (2024); NAIP (2023); MNDNR (2006 & 2024); MNBWSR (2024); CRP (2007).



Map Document: N:\0046089\001_GIS_ArcPro\0046089_040_SPAExhibits_20240610\0046089_040_SPAExhibits_20240610.aprx 9/24/2024 8:49 AM MMQuade

