



Photograph pp09 view East



Photograph pp09 view South



Photograph pp09 view West

**Appendix B**  
**Wetland Determination Data Forms –**  
**Midwest Region**

## WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Forks-Rost 161 kV Transmission City/County: Jackson County Sampling Date: 2024-04-24  
Applicant/Owner: ITC Holdings State: MN Sampling Point: dp01  
Investigator(s): Kallie Koon Section, Township, Range: S26 T102N S037W  
Lanform(hillslope, terrace, etc): Depression Local relief (concave, convex, none): concave  
Slope(%): 0-2 Lat: 43.60252 Long: -95.24266 Datum: WGS 84  
Soil Map Unit Name: 229: Waldorf silty clay loam, 0 to 2 percent slopes NWI classification: - - -  
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
Are Vegetation ☒, Soil ☐, or Hydrology ☐ Significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                                                                                                                                                                                                     |                                                                     |                                          |                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------|
| Hydrophytic Vegetation Present?                                                                                                                                                                                                                                                                     | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Is the Sampled Area<br>within a Wetland? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Hydric Soil Present?                                                                                                                                                                                                                                                                                | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |                                          |                                                                     |
| Wetland Hydrology Present?                                                                                                                                                                                                                                                                          | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |                                          |                                                                     |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Analysis of antecedent precipitation conditions indicates normal precipitation conditions on site at the time of survey. Data point dp01 was recorded in a harvested soybean field 25 ft north of a drainage tile inlet. |                                                                     |                                          |                                                                     |

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size:30-ft (9.1-m) radius)                                                                               | Absolute<br>% Cover | Dominant<br>Species? | Indicator<br>Status | Dominance Test Worksheet |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------------|--------------------------|
| 1. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 2. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 3. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 4. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 5. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 0% = Total Cover                                                                                                            |                     |                      |                     |                          |
| Sapling/Shrub Stratum (Plot size:15-ft (4.6-m) radius)                                                                      |                     |                      |                     |                          |
| 1. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 2. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 3. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 4. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 5. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 0% = Total Cover                                                                                                            |                     |                      |                     |                          |
| Herb Stratum (Plot size:5-ft (1.5-m) radius OR 3.28- by 3.28-ft square (1-m <sup>2</sup> ) quadrat)                         |                     |                      |                     |                          |
| 1. <u>Cirsium arvense, Canadian Thistle</u>                                                                                 | 5%                  | yes                  | FACU                |                          |
| 2. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 3. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 4. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 5. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 6. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 7. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 8. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 9. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 10. _____                                                                                                                   | _____               | _____                | _____               |                          |
| 5% = Total Cover                                                                                                            |                     |                      |                     |                          |
| Woody Vine Stratum (Plot size:30-ft (9.1-m) radius)                                                                         |                     |                      |                     |                          |
| 1. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 2. _____                                                                                                                    | _____               | _____                | _____               |                          |
| 0% = Total Cover                                                                                                            |                     |                      |                     |                          |
| Remarks: (Include photo numbers here or on a separate sheet.)<br>Data point dp01 was recorded in a harvested soybean field. |                     |                      |                     |                          |

**Dominance Test Worksheet**  
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
Total Number of Dominant Species Across All Strata: 1 (B)  
Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)  
**Prevalence Index worksheet:**  

| Total % Cover of:                     | Multiply by:       |
|---------------------------------------|--------------------|
| OBL species <u>0</u>                  | x1 = <u>0</u>      |
| FACW species <u>0</u>                 | x1 = <u>0</u>      |
| FAC species <u>0</u>                  | x1 = <u>0</u>      |
| FACU species <u>5</u>                 | x1 = <u>20</u>     |
| UPL species <u>0</u>                  | x1 = <u>0</u>      |
| Column Totals: <u>5</u>               | x1 = <u>20</u> (B) |
| Prevalence Index = B/A = <u>4.000</u> |                    |

**Hydrophytic Vegetation Indicators:**  
1 - Rapid Test for Hydrophytic Vegetation  
2 - Dominance Test is > 50%  
3 - Prevalence Index is <= 3.0<sup>1</sup>  
4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
PROBLEMATIC Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  
**Hydrophytic Vegetation Present?** Yes ☐ No ☒

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

- \_\_\_ Sandy Gleyed Matrix (S4)
- \_\_\_ Sandy Redox (S5)
- \_\_\_ Stripped Matrix (S6)
- \_\_\_ Loamy Mucky Mineral (F1)
- \_\_\_ Loamy Gleyed Matrix (F2)
- \_\_\_ Depleted Matrix (F3)
- \_\_\_ Redox Dark Surface (F6)
- \_\_\_ Depleted Dark Surface (F7)
- \_\_\_ Redox Depressions (F8)

☐ Coast Prairie Redox (A16)  
☐ Dark Surface (S7)  
☐ Iron-Manganese Masses (F12)  
☐ Very Shallow Dark Surface (TF12)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Type: - - -  
Depth (inches): - - -

Yes      No      ✓

The soil profile does not meet the criteria for any hydric soil indicators. Hydric soil indicator Thick Dark Surface (A12) is assumed to not be present based on the lack of wetland hydrology indicators.

Primary Indicators (minimum of one required; check all that apply)

- |                                                                    |                                                                        |
|--------------------------------------------------------------------|------------------------------------------------------------------------|
| <input type="checkbox"/> Surface water (A1)                        | <input type="checkbox"/> Water-stained leaves (B9)                     |
| <input type="checkbox"/> High water table (A2)                     | <input type="checkbox"/> Aquatic fauna (B13)                           |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> True aquatic plants (B14)                     |
| <input type="checkbox"/> Water marks (B1)                          | <input type="checkbox"/> Hydrogen sulfide odor (C1)                    |
| <input type="checkbox"/> Sediment deposits (B2)                    | <input type="checkbox"/> Oxidized rhizospheres along living roots (C3) |
| <input type="checkbox"/> Drift deposits (B3)                       | <input type="checkbox"/> Presence of reduced iron (C4)                 |
| <input type="checkbox"/> Algal mat or crust (B4)                   | <input type="checkbox"/> Recent iron reduction in tilled soils (C6)    |
| <input type="checkbox"/> Iron deposits (B5)                        | <input type="checkbox"/> Thin muck surface (C7)                        |
| <input type="checkbox"/> Inundation visible on aerial imagery (B7) | <input type="checkbox"/> Gauge or well data (D9)                       |
| <input type="checkbox"/> Sparsely vegetated concave surface (B8)   | <input type="checkbox"/> Other (Explain in Remarks)                    |

- \_\_\_ Surface soil cracks (B6)
- \_\_\_ Drainage patterns (B10)
- \_\_\_ Dry-season water table (C2)
- \_\_\_ Crayfish burrows (C8)
- ✓ Saturation visible on aerial imagery (C9)
- \_\_\_ Stunted or stressed plants (D1)
- \_\_\_ Geomorphic position (D2)
- \_\_\_ FAC-neutral test (D5)

Surface Water Present? Yes ☐ No ☒ Depth (inches): - - -

Water Table Present? Yes ☐ No ☒ Depth (inches): - - -

Saturation Present? Yes ☐ No ☒ Depth (inches): - - -  
(includes capillary fringe)

Yes      No      ✓

Remarks: Saturation is visible on some years of aerial imagery, but no other wetland hydrology indicators were observed.

## WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Forks-Rost 161 kV Transmission City/County: Jackson County Sampling Date: 2024-04-24  
Applicant/Owner: ITC Holdings State: MN Sampling Point: dp02  
Investigator(s): Kallie Koon Section, Township, Range: S26 T102N S037W  
Lanform(hillslope, terrace, etc): Depression Local relief (concave, convex, none): concave  
Slope(%): 0-2 Lat: 43.60404 Long: -95.24498 Datum: WGS 84  
Soil Map Unit Name: 229: Waldorf silty clay loam, 0 to 2 percent slopes NWI classification: - - -  
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)  
Are Vegetation ☒, Soil ☐, or Hydrology ☐ Significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐  
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                                                                                                                                                                                                                 |                                                                     |                                          |                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------|
| Hydrophytic Vegetation Present?                                                                                                                                                                                                                                                                                 | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Is the Sampled Area<br>within a Wetland? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Hydric Soil Present?                                                                                                                                                                                                                                                                                            | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                          |                                                                     |
| Wetland Hydrology Present?                                                                                                                                                                                                                                                                                      | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |                                          |                                                                     |
| Remarks: (Explain alternative procedures here or in a separate report.)<br>Analysis of antecedent precipitation conditions indicates normal precipitation conditions on site at the time of survey. Data point dp02 was recorded in a harvested corn field 25 feet southeast of a functioning drain tile inlet. |                                                                     |                                          |                                                                     |

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size:30-ft (9.1-m) radius)                                                                               | Absolute<br>% Cover | Dominant<br>Species? | Indicator<br>Status | Dominance Test Worksheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. _____                                                                                                                    | _____               | _____                | _____               | Number of Dominant Species That<br>Are OBL, FACW, or FAC: _____ 0 (A)                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3. _____                                                                                                                    | _____               | _____                | _____               | Total Number of Dominant Species<br>Across All Strata: _____ 0 (B)                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4. _____                                                                                                                    | _____               | _____                | _____               | Percent of Dominant Species That<br>Are OBL, FACW, or FAC: _____ 0% (A/B)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 0% = Total Cover                                                                                                            |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sapling/Shrub Stratum (Plot size:15-ft (4.6-m) radius)                                                                      |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1. _____                                                                                                                    | _____               | _____                | _____               | Prevalence Index worksheet:<br><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ 0 x1 = _____ 0<br>FACW species _____ 0 x1 = _____ 0<br>FAC species _____ 0 x1 = _____ 0<br>FACU species _____ 0 x1 = _____ 0<br>UPL species _____ 0 x1 = _____ 0<br>Column Totals: _____ 0 x1 = _____ 0 (B)<br>Prevalence Index = B/A = _____ NaN                                                                                                                                             |
| 2. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 0% = Total Cover                                                                                                            |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Herb Stratum (Plot size:5-ft (1.5-m) radius OR 3.28- by 3.28-ft square (1-m <sup>2</sup> ) quadrat)                         |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1. _____                                                                                                                    | _____               | _____                | _____               | Hydrophytic Vegetation Indicators:<br><br>____ 1 - Rapid Test for Hydrophytic Vegetation<br>____ 2 - Dominance Test is > 50%<br>____ 3 - Prevalence Index is <= 3.0 <sup>1</sup><br>____ 4 - Morphological Adaptations <sup>1</sup> (Provide<br>supporting data in Remarks or on a separate<br>sheet)<br>____ PROBLEMATIC Hydrophytic Vegetation <sup>1</sup> (Explain)<br><br><sup>1</sup> Indicators of hydric soil and wetland hydrology<br>must be present, unless disturbed or problematic. |
| 2. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 9. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10. _____                                                                                                                   | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 0% = Total Cover                                                                                                            |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Woody Vine Stratum (Plot size:30-ft (9.1-m) radius)                                                                         |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1. _____                                                                                                                    | _____               | _____                | _____               | Hydrophytic<br>Vegetation<br>Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                        |
| 2. _____                                                                                                                    | _____               | _____                | _____               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 0% = Total Cover                                                                                                            |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Remarks: (Include photo numbers here or on a separate sheet.)<br>Data point dp02 was recorded in a harvested soybean field. |                     |                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**SOIL**

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) |                   |       |                   |       |                   |                  |         |         |
|---------------------------------------------------------------------------------------------------------------------|-------------------|-------|-------------------|-------|-------------------|------------------|---------|---------|
| Depth (inches)                                                                                                      | Matrix            |       | Redox Features    |       |                   |                  | Texture | Remarks |
|                                                                                                                     | Color (moist)     | %     | Color (moist)     | %     | Type <sup>1</sup> | Loc <sup>2</sup> |         |         |
| 0-24                                                                                                                | 10YR - 2/1        | 100   | - - - - - / - - - | - - - | - - -             | - - -            | CL      | - - -   |
| 24-40                                                                                                               | 10YR - 2/1        | 95    | 7.5YR-4/6         | 5     | C                 | M                | SiCL    | - - -   |
| 40-45                                                                                                               | 10YR - 2/1        | 35    | 10YR-4/1          | 60    | D                 | M                | SiCL    | - - -   |
|                                                                                                                     | - - - - - / - - - | - - - | 7.5YR-5/6         | 5     | C                 | M                | - - -   |         |
|                                                                                                                     |                   |       |                   |       |                   |                  |         |         |
|                                                                                                                     |                   |       |                   |       |                   |                  |         |         |
|                                                                                                                     |                   |       |                   |       |                   |                  |         |         |
|                                                                                                                     |                   |       |                   |       |                   |                  |         |         |
|                                                                                                                     |                   |       |                   |       |                   |                  |         |         |

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

| Hydric Soil Indicators:                                             | Indicators for Problematic Hydric Soils <sup>3</sup> : |
|---------------------------------------------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> Histosol (or Histel) (A1) <b>undefined</b> | <input type="checkbox"/> Sandy Gleyed Matrix (S4)      |
| <input type="checkbox"/> Histic Epipedon (A2) <b>undefined</b>      | <input type="checkbox"/> Sandy Redox (S5)              |
| <input type="checkbox"/> Black Histi (A3) <b>undefined</b>          | <input type="checkbox"/> Stripped Matrix (S6)          |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                      | <input type="checkbox"/> Loamy Mucky Mineral (F1)      |
| <input type="checkbox"/> Stratified Layers (A5)                     | <input type="checkbox"/> Loamy Gleyed Matrix (F2)      |
| <input type="checkbox"/> 2 cm Muck (A10)                            | <input type="checkbox"/> Depleted Matrix (F3)          |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)          | <input type="checkbox"/> Redox Dark Surface (F6)       |
| <input checked="" type="checkbox"/> Thick Dark Surface (A12)        | <input type="checkbox"/> Depleted Dark Surface (F7)    |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                   | <input type="checkbox"/> Redox Depressions (F8)        |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)               |                                                        |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

| Restrictive Layer (if observed): | Hydric Soil Present?                                                |
|----------------------------------|---------------------------------------------------------------------|
| Type: - - -                      | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Depth (inches): - - -            |                                                                     |

Remarks:  
The soil profile meets the hydric soil criterion for Thick Dark Surface (A12).

**HYDROLOGY**

| Wetland Hydrology Indicators:                                          | Secondary Indicators (minimum of two required)                                |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Primary Indicators (minimum of one required; check all that apply)     |                                                                               |
| <input type="checkbox"/> Surface water (A1)                            | <input type="checkbox"/> Surface soil cracks (B6)                             |
| <input type="checkbox"/> High water table (A2)                         | <input type="checkbox"/> Drainage patterns (B10)                              |
| <input type="checkbox"/> Saturation (A3)                               | <input type="checkbox"/> Dry-season water table (C2)                          |
| <input type="checkbox"/> Water marks (B1)                              | <input type="checkbox"/> Crayfish burrows (C8)                                |
| <input type="checkbox"/> Sediment deposits (B2)                        | <input checked="" type="checkbox"/> Saturation visible on aerial imagery (C9) |
| <input type="checkbox"/> Drift deposits (B3)                           | <input type="checkbox"/> Stunted or stressed plants (D1)                      |
| <input type="checkbox"/> Algal mat or crust (B4)                       | <input type="checkbox"/> Geomorphic position (D2)                             |
| <input type="checkbox"/> Iron deposits (B5)                            | <input type="checkbox"/> FAC-neutral test (D5)                                |
| <input type="checkbox"/> Inundation visible on aerial imagery (B7)     |                                                                               |
| <input type="checkbox"/> Sparsely vegetated concave surface (B8)       |                                                                               |
| <input type="checkbox"/> Water-stained leaves (B9)                     |                                                                               |
| <input type="checkbox"/> Aquatic fauna (B13)                           |                                                                               |
| <input type="checkbox"/> True aquatic plants (B14)                     |                                                                               |
| <input type="checkbox"/> Hydrogen sulfide odor (C1)                    |                                                                               |
| <input type="checkbox"/> Oxidized rhizospheres along living roots (C3) |                                                                               |
| <input type="checkbox"/> Presence of reduced iron (C4)                 |                                                                               |
| <input type="checkbox"/> Recent iron reduction in tilled soils (C6)    |                                                                               |
| <input type="checkbox"/> Thin muck surface (C7)                        |                                                                               |
| <input type="checkbox"/> Gauge or well data (D9)                       |                                                                               |
| <input type="checkbox"/> Other (Explain in Remarks)                    |                                                                               |

| Field Observations:                                                                                                                          | Wetland Hydrology Present?                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): - - -                             | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): - - -                               |                                                                     |
| Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): - - -<br>(includes capillary fringe) |                                                                     |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
Saturation is visible on some years of aerial imagery, but no other wetland hydrology indicators were observed.

## **Appendix C**

### **Off-site Aerial Review**

**Exhibit 1** Field data sheet reference (if applicable):

## Wetland Hydrology from Aerial Imagery – Recording Form

Project Name: ITC Forks to Rost 161kV Project

Date: 5/21/2024 County: Jackson County, MN

Investigator: Jameson Loesch Legal Description (T, R, S): T102N, R37W, Sec. 26

**Summary Table**

| Date<br>Image<br>Taken<br>(M-D-Y) | Image Source | Climate<br>Condition<br>(wet, dry,<br>normal) <sup>i</sup> | Image Interpretation(s) |      |
|-----------------------------------|--------------|------------------------------------------------------------|-------------------------|------|
|                                   |              |                                                            | ws01                    | ws02 |
| 8-5-2021                          | NAIP         | Dry                                                        | NV                      | NV   |
| 8-23-2019                         | NAIP         | Normal                                                     | SS                      | SS   |
| 8-3-2015                          | NAIP         | Normal                                                     | NV                      | NV   |
| 7-10-2013                         | NAIP         | Wet                                                        | SS                      | SS   |
| 6-24-2010                         | NAIP         | Normal                                                     | NV                      | NV   |
| 8-21-2005                         | NAIP         | Normal                                                     | NV                      | NV   |
|                                   |              |                                                            |                         |      |
|                                   |              |                                                            |                         |      |
|                                   |              |                                                            |                         |      |
|                                   |              |                                                            |                         |      |
|                                   |              |                                                            |                         |      |
|                                   |              |                                                            |                         |      |
| Normal Climate Condition          |              |                                                            |                         |      |
| Number                            |              |                                                            | 4                       | 4    |
| Number with wet signatures        |              |                                                            | 1                       | 0    |
| Percent with wet signatures       |              |                                                            | 25                      | 0    |

| KEY                                                                |                             |                                 |
|--------------------------------------------------------------------|-----------------------------|---------------------------------|
| WS - wetland signature                                             | SS - soil wetness signature | CS - crop stress                |
| NC - not cropped                                                   | AP - altered pattern        | NV - normal vegetative cover    |
| DO - drowned out                                                   | SW - standing water         | NSS – no soil wetness signature |
| Other labels or comments: TC - Thriving crop during dry conditions |                             |                                 |

- Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.
- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

**Exhibit 2** Field data sheet reference (if applicable):

## Wetland Determination from Aerial Imagery – Recording Form

Project Name: ITC Forks to Rost 161kV Project

Date: 5/21/2024 County: Jackson County, MN

Investigator: Jameson Loesch Legal Description (T, R, S): T102N, R37W, Sec. 26

Use the Decision Matrix below to complete Table 1.

| Hydric Soils present <sup>1</sup> | Identified on NWI or other wetland map <sup>2</sup> | Percent with wet signatures from Exhibit 1 | Field verification required <sup>3</sup> | Wetland?                                   |
|-----------------------------------|-----------------------------------------------------|--------------------------------------------|------------------------------------------|--------------------------------------------|
| Yes                               | Yes                                                 | >50%                                       | No                                       | Yes                                        |
| Yes                               | Yes                                                 | 30-50%                                     | No                                       | Yes                                        |
| Yes                               | Yes                                                 | <30%                                       | Yes                                      | Yes, if other hydrology indicators present |
| Yes                               | No                                                  | >50%                                       | No                                       | Yes                                        |
| Yes                               | No                                                  | 30-50%                                     | Yes                                      | Yes, if other hydrology indicators present |
| Yes                               | No                                                  | <30%                                       | No                                       | No                                         |
| No                                | Yes                                                 | >50%                                       | No                                       | Yes                                        |
| No                                | Yes                                                 | 30-50%                                     | No                                       | Yes                                        |
| No                                | Yes                                                 | <30%                                       | No                                       | No                                         |
| No                                | No                                                  | >50%                                       | Yes                                      | Yes, if other hydrology indicators present |
| No                                | No                                                  | 30-50%                                     | Yes                                      | Yes, if other hydrology indicators present |
| No                                | No                                                  | <30%                                       | No                                       | No                                         |

<sup>1</sup> The presence of hydric soils can be determined from the “Hydric Rating by Map Unit Feature” under “Land Classifications” from the Web Soil Survey. “Not Hydric” is the only category considered to not have hydric soils. Field sampling for the presence/absence of hydric soil indicators can be used in lieu of the hydric rating if appropriately documented by providing completed field data sheets.

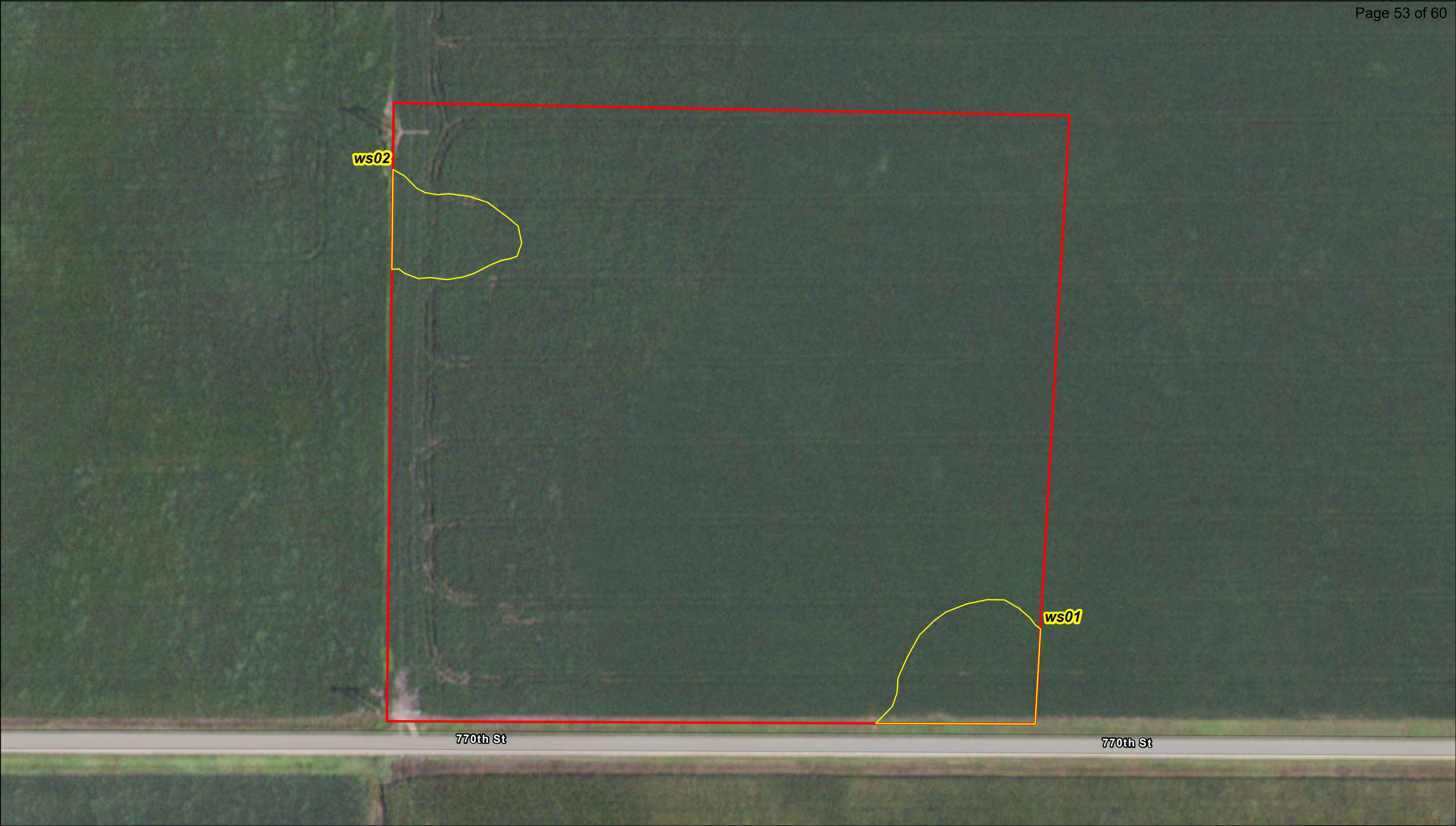
<sup>2</sup> At minimum, the most updated NWI data available for the area must be reviewed for this step. Any and all other local or regional wetland maps that are publicly available should be reviewed.

<sup>3</sup> Area should be reviewed in the field for the presence/absence of wetland hydrology indicators per the applicable 87 Manual Regional Supplement, including the D2 indicator (geomorphic position).

**Table 1.**

| Area | Hydric Soils Present | Identified on NWI or other wetland map | Percent with wet signatures from Exhibit 1 | Other hydrology indicators present <sup>1</sup> | Wetland |
|------|----------------------|----------------------------------------|--------------------------------------------|-------------------------------------------------|---------|
| ws01 | Yes                  | No                                     | 25%                                        | No                                              | No      |
| ws02 | Yes                  | No                                     | 0%                                         | No                                              | No      |
|      |                      |                                        |                                            |                                                 |         |
|      |                      |                                        |                                            |                                                 |         |
|      |                      |                                        |                                            |                                                 |         |
|      |                      |                                        |                                            |                                                 |         |
|      |                      |                                        |                                            |                                                 |         |

<sup>1</sup> Answer “N/A” if field verification is not required and was not conducted.



|                                                                                                                                    |                                                                                                                                                       |                                                                                                                                                                                                                                              |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>0 50 100<br/>Feet<br/>1 inch = 100 feet</p>  | <p>Farmed Wetland Determination<br/>2021 NAIP Imagery - Dry<br/>ITC Forks to Rost 161kV Project<br/>ITC Midwest LLC<br/>Jackson County, Minnesota</p> | <p> Survey Area</p> <p> Farmed Wetland Determination Signature</p> |  |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|



|                                                                                                                                    |                                                                                                                                                          |                                                                                                                                                                                                                                              |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>0 50 100<br/>Feet<br/>1 inch = 100 feet</p>  | <p>Farmed Wetland Determination<br/>2019 NAIP Imagery - Normal<br/>ITC Forks to Rost 161kV Project<br/>ITC Midwest LLC<br/>Jackson County, Minnesota</p> | <p> Survey Area</p> <p> Farmed Wetland Determination Signature</p> |  |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|



|                                                                                                                                    |                                                                                                                                                          |                                                                                                                                                                                                                                              |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>0 50 100<br/>Feet<br/>1 inch = 100 feet</p>  | <p>Farmed Wetland Determination<br/>2015 NAIP Imagery - Normal<br/>ITC Forks to Rost 161kV Project<br/>ITC Midwest LLC<br/>Jackson County, Minnesota</p> | <p> Survey Area</p> <p> Farmed Wetland Determination Signature</p> |  |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|



|                                                                                                                                    |                                                                                                                                                                                          |                                                                                                                                                                                                                                              |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>0 50 100<br/>Feet<br/>1 inch = 100 feet</p>  | <p><b>Farmed Wetland Determination</b><br/><b>2013 NAIP Imagery - Wet</b><br/><b>ITC Forks to Rost 161kV Project</b><br/><b>ITC Midwest LLC</b><br/><b>Jackson County, Minnesota</b></p> | <p> Survey Area</p> <p> Farmed Wetland Determination Signature</p> |  |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

For Environmental Review Purposes Only



|                                                                                                                                       |                                                                                                                                                              |                                                                                      |             |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|
| <div><div>050100</div><div>Feet</div><div>1 inch = 100 feet</div></div> <div></div> <div>For Environmental Review Purposes Only</div> | <div>Farmed Wetland Determination<br/>2010 NAIP Imagery - Normal<br/>ITC Forks to Rost 161kV Project<br/>ITC Midwest LLC<br/>Jackson County, Minnesota</div> | <div><div> Survey Area</div><div> Farmed Wetland Determination Signature</div></div> | <div></div> |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|

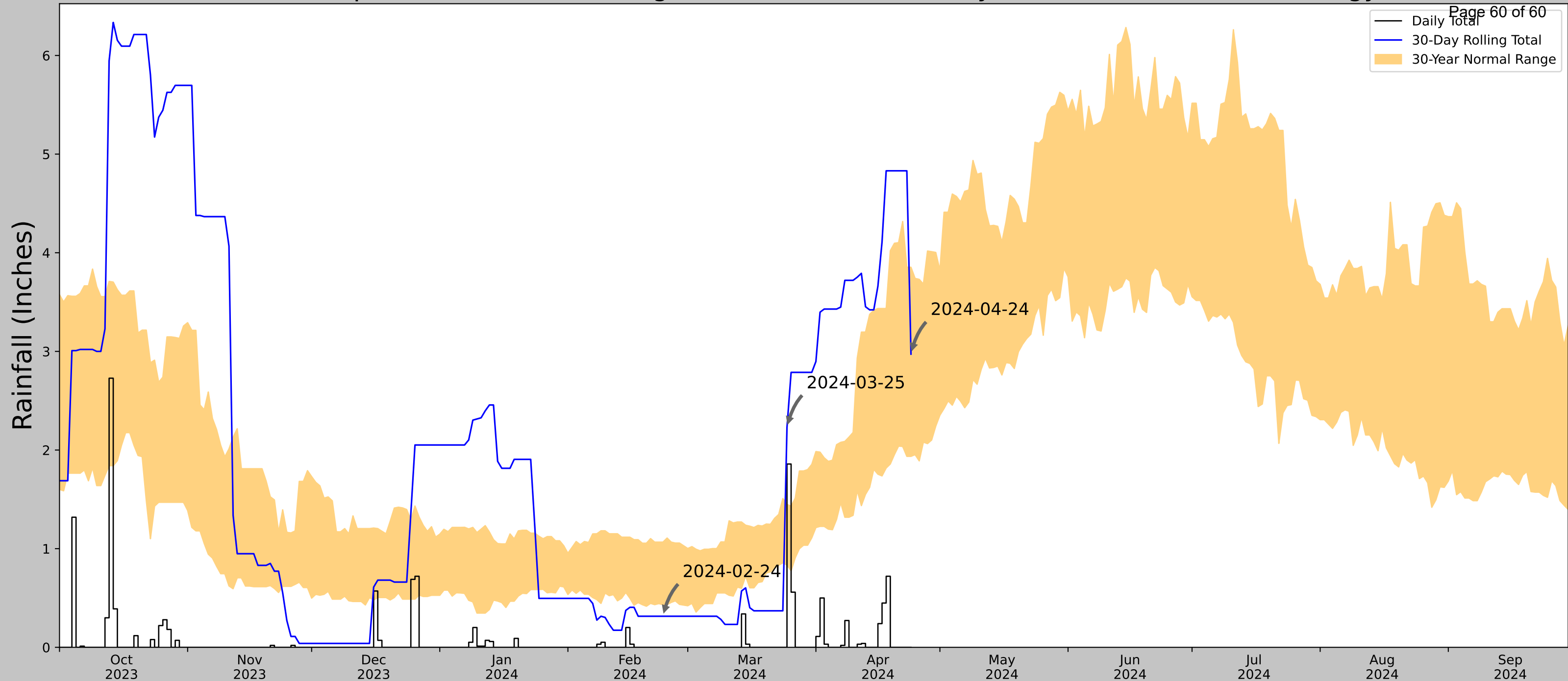
Source: Z:\Clients\11111\ITC Forks to Rost\161kV\Biology\1001\_ArcPro\ITC Forks Rost\_Wetland\_Delineation.aprx - Map: FWD  
Date: (5/27/2024)



|                                                                                                                                    |                                                                                                                                                                                             |                                                                                                                                                                                                                                              |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>0 50 100<br/>Feet<br/>1 inch = 100 feet</p>  | <p><b>Farmed Wetland Determination</b><br/><b>2005 NAIP Imagery - Normal</b><br/><b>ITC Forks to Rost 161kV Project</b><br/><b>ITC Midwest LLC</b><br/><b>Jackson County, Minnesota</b></p> | <p> Survey Area</p> <p> Farmed Wetland Determination Signature</p> |  |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

## **Appendix D**

### **APT Analysis**



|                                  |                             |
|----------------------------------|-----------------------------|
| Coordinates                      | 43.602523, -95.242643       |
| Observation Date                 | 2024-04-24                  |
| Elevation (ft)                   | 1438.625                    |
| Drought Index (PDSI)             | Incipient wetness (2024-03) |
| WebWIMP H <sub>2</sub> O Balance | Wet Season                  |

| 30 Days Ending | 30 <sup>th</sup> %ile (in) | 70 <sup>th</sup> %ile (in) | Observed (in) | Wetness Condition | Condition Value | Month Weight | Product                |
|----------------|----------------------------|----------------------------|---------------|-------------------|-----------------|--------------|------------------------|
| 2024-04-24     | 1.935827                   | 3.85315                    | 2.972441      | Normal            | 2               | 3            | 6                      |
| 2024-03-25     | 0.833071                   | 1.448819                   | 2.228347      | Wet               | 3               | 2            | 6                      |
| 2024-02-24     | 0.432283                   | 1.066535                   | 0.314961      | Dry               | 1               | 1            | 1                      |
| Result         |                            |                            |               |                   |                 |              | Normal Conditions - 13 |



Figure and tables made by the  
**Antecedent Precipitation Tool**  
Version 1.0

Written by Jason Deters  
U.S. Army Corps of Engineers

| Weather Station Name | Coordinates       | Elevation (ft) | Distance (mi) | Elevation Δ | Weighted Δ | Days Normal | Days Antecedent |
|----------------------|-------------------|----------------|---------------|-------------|------------|-------------|-----------------|
| LAKE PARK            | 43.4483, -95.3247 | 1464.895       | 11.421        | 26.27       | 5.44       | 11295       | 81              |
| LAKE PARK 0.2 N      | 43.4516, -95.3251 | 1466.864       | 0.229         | 1.969       | 0.104      | 23          | 9               |
| LAKE PARK 3.2 SSE    | 43.403, -95.3079  | 1439.961       | 3.241         | 24.934      | 1.539      | 10          | 0               |
| HARRIS 0.1 NNE       | 43.4473, -95.4328 | 1558.071       | 5.423         | 93.176      | 2.946      | 9           | 0               |
| MILFORD 4 NW         | 43.3828, -95.1842 | 1401.903       | 8.379         | 62.992      | 4.298      | 14          | 0               |
| SPIRIT LAKE          | 43.4231, -95.1394 | 1419.948       | 9.458         | 44.947      | 4.681      | 1           | 0               |