

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22 **City/County:** Aitkin **Sampling Date:** 07-Sep-17
Applicant/Owner: Enbridge **State:** MN **Sampling Point:** u-51n22w20-a1
Investigator(s): PJK **Section, Township, Range:** S. 20 T. 51N R. 22W
Landform (hillslope, terrace, etc.): Mound **Local relief (concave, convex, none):** convex **Slope:** 1.7 % / 1.0 °
Subregion (LRR or MLRA): LRR K **Lat.:** 46 53.0772 **Long.:** -93 9.7743 **Datum:** NAD 83
Soil Map Unit Name: 292 **NWI classification:** N/A

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

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| Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: (Explain alternative procedures here or in a separate report.) | |

Hydrology

| | |
|--|--|
| Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u> <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"/> Marl Deposits (B15) <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"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <u>Secondary Indicators (minimum of 2 required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5) |
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| Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u> Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u> Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u> | Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> |
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants

Sampling Point: u-51n22w20-a1

| Tree Stratum (Plot size: <u>30</u>) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | |
|--|-------------------------|-------------------------------------|-------------------------|---|-------------------|
| 1. _____ | 0 | <input type="checkbox"/> | _____ | Number of Dominant Species That are OBL, FACW, or FAC: | <u>0</u> (A) |
| 2. _____ | 0 | <input type="checkbox"/> | _____ | Total Number of Dominant Species Across All Strata: | <u>1</u> (B) |
| 3. _____ | 0 | <input type="checkbox"/> | _____ | Percent of dominant Species That Are OBL, FACW, or FAC: | <u>0.0%</u> (A/B) |
| 4. _____ | 0 | <input type="checkbox"/> | _____ | | |
| 5. _____ | 0 | <input type="checkbox"/> | _____ | | |
| 6. _____ | 0 | <input type="checkbox"/> | _____ | | |
| 7. _____ | 0 | <input type="checkbox"/> | _____ | | |
| | | | 0 = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: <u>15</u>) | Absolute % Cover | Dominant Species? | Indicator Status | Prevalence Index worksheet: | |
| 1. _____ | 0 | <input type="checkbox"/> | _____ | Total % Cover of: | Multiply by: |
| 2. _____ | 0 | <input type="checkbox"/> | _____ | OBL species <u>0</u> | x 1 = <u>0</u> |
| 3. _____ | 0 | <input type="checkbox"/> | _____ | FACW species <u>5</u> | x 2 = <u>10</u> |
| 4. _____ | 0 | <input type="checkbox"/> | _____ | FAC species <u>0</u> | x 3 = <u>0</u> |
| 5. _____ | 0 | <input type="checkbox"/> | _____ | FACU species <u>70</u> | x 4 = <u>280</u> |
| 6. _____ | 0 | <input type="checkbox"/> | _____ | UPL species <u>15</u> | x 5 = <u>75</u> |
| 7. _____ | 0 | <input type="checkbox"/> | _____ | Column Totals: <u>90</u> (A) | <u>365</u> (B) |
| | | | 0 = Total Cover | Prevalence Index = B/A = <u>4.056</u> | |
| Herb Stratum (Plot size: <u>5</u>) | Absolute % Cover | Dominant Species? | Indicator Status | Hydrophytic Vegetation Indicators: | |
| 1. <i>Poa pratensis</i> | 60 | <input checked="" type="checkbox"/> | FACU | <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation | |
| 2. <i>Trifolium repens</i> | 10 | <input type="checkbox"/> | FACU | <input type="checkbox"/> Dominance Test is > 50% | |
| 3. <i>Asclepias syriaca</i> | 15 | <input type="checkbox"/> | UPL | <input type="checkbox"/> Prevalence Index is ≤3.0¹ | |
| 4. <i>Spiraea alba</i> | 5 | <input type="checkbox"/> | FACW | <input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) | |
| 5. _____ | 0 | <input type="checkbox"/> | _____ | <input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain) | |
| 6. _____ | 0 | <input type="checkbox"/> | _____ | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | |
| 7. _____ | 0 | <input type="checkbox"/> | _____ | | |
| 8. _____ | 0 | <input type="checkbox"/> | _____ | | |
| 9. _____ | 0 | <input type="checkbox"/> | _____ | | |
| 10. _____ | 0 | <input type="checkbox"/> | _____ | | |
| 11. _____ | 0 | <input type="checkbox"/> | _____ | | |
| 12. _____ | 0 | <input type="checkbox"/> | _____ | | |
| | | | 90 = Total Cover | Definitions of Vegetation Strata: | |
| Woody Vine Stratum (Plot size: <u>30</u>) | Absolute % Cover | Dominant Species? | Indicator Status | Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. | |
| 1. _____ | 0 | <input type="checkbox"/> | _____ | Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. | |
| 2. _____ | 0 | <input type="checkbox"/> | _____ | Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. | |
| 3. _____ | 0 | <input type="checkbox"/> | _____ | Woody vine - All woody vines greater than 3.28 ft in height. | |
| 4. _____ | 0 | <input type="checkbox"/> | _____ | | |
| | | | 0 = Total Cover | | |
| | | | | Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | |
| Remarks: (Include photo numbers here or on a separate sheet.) | | | | | |

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

