

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: I3_mainline City/County: Clearwater Sampling Date: 2017-06-13
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-145n36w2-h2
 Investigator(s): SMR, MRG Section, Township, Range: S2, T145N, R36W
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 3-7%
 Subregion (LRR or MLRA): _____ Latitude: 47.4050445808... Longitude: -95.22049941... Datum: NAD83
 Soil Map Unit Name: 1878 NWI Classification: PSS1B
 Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes
 Are Vegetation No, Soil No, or Hydrology No 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? | <u>Yes</u> | Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: <u>w-145n36w2-h</u> |
| Hydric Soil Present? | <u>Yes</u> | |
| Wetland Hydrology Present? | <u>Yes</u> | |
| Remarks: (Explain alternative procedures here or in a separate report.) | | |

HYDROLOGY

| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
|--|---|
| Primary Indicators (minimum of one is required; check all that apply) | |
| <u>yes</u> Surface Water (A1) | _____ Surface Soil Cracks (B6) |
| _____ Water-Stained Leaves (B9) | _____ Drainage Patterns (B10) |
| <u>yes</u> High Water Table (A2) | _____ Moss Trim Lines (B16) |
| _____ Aquatic Fauna (B13) | _____ Dry-Season Water Table (C2) |
| <u>yes</u> Saturation (A3) | _____ Crayfish Burrows (C8) |
| _____ Marl Deposits (B15) | _____ Saturation Visible on Aerial Imagery (C9) |
| _____ Water Marks (B1) | _____ Stunted/Stressed Plants (D1) |
| _____ Hydrogen Sulfide Odor (C1) | <u>yes</u> Geomorphic Position (D2) |
| _____ Oxidized Rhizospheres on Living Roots (C3) | _____ Shallow Aquitard (D3) |
| _____ Presence of Reduced Iron (C4) | _____ Microtopographic Relief (D4) |
| _____ Recent Iron Reduction in Tilled Soils (C6) | <u>yes</u> FAC-Neutral Test (D5) |
| _____ Thin Muck Surface (C7) | |
| _____ Other (Explain in Remarks) | |
| _____ Inundation Visible on Aerial Imagery (B7) | |
| _____ Sparsely Vegetated Concave Surface (B8) | |

| | |
|---|--|
| Field Observations: | |
| Surface Water Present? <u>Yes</u> Depth (inches) <u>2</u> | Wetland Hydrology Present? <u>Yes</u> |
| Water Table Present? <u>Yes</u> Depth (inches) <u>0</u> | |
| Saturation Present? <u>Yes</u> Depth (inches) <u>0</u> (includes capillary fringe) | |

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

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: w-145n36w2-h2

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|--|------------------|-------------------|------------------|--|
| Tree Stratum (Plot Size: <u>30</u>) | | | | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B) |
| 1. _____ | _____ | _____ | _____ | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 0 _____ = Total Cover | | | | Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>150.00</u> x 1 <u>150</u> FACW species <u>50.00</u> x 2 <u>100</u> FACU species <u>0.00</u> x 3 <u>0</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>200</u> (A) <u>250</u> (B) Prevalence Index = B/A = <u>1.25</u> |
| Sapling/Shrub Stratum (Plot Size: <u>15</u>) | | | | |
| 1. <u>Salix petiolaris</u> | <u>50.00</u> | <u>Yes</u> | <u>OBL</u> | |
| 2. <u>Salix bebbiana</u> | <u>40.00</u> | <u>Yes</u> | <u>FACW</u> | |
| 3. <u>Alnus incana</u> | <u>10.00</u> | <u>No</u> | <u>FACW</u> | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 100 _____ = Total Cover | | | | |
| Herb Stratum (Plot Size: <u>5</u>) | | | | Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>yes</u> 2 - Dominance Test is > 50% <u>yes</u> 3 - Prevalence Index is ≤ 3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small> |
| 1. <u>Carex lacustris</u> | <u>100.00</u> | <u>Yes</u> | <u>OBL</u> | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 8. _____ | _____ | _____ | _____ | |
| 9. _____ | _____ | _____ | _____ | |
| 10. _____ | _____ | _____ | _____ | |
| 11. _____ | _____ | _____ | _____ | |
| 100 _____ = Total Cover | | | | |
| Woody Vine Stratum (Plot Size: <u>30</u>) | | | | |
| 1. _____ | _____ | _____ | _____ | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 0 _____ = Total Cover | | | | |
| Remarks: (include photo numbers here or on a separate sheet.) <div style="border: 1px solid black; height: 100px; width: 100%;"></div> | | | | Definitions of Vegetation Strata: Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. |
| | | | | Hydrophytic Vegetation Present? <u>Yes</u> |

