

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Main L3R ESC **City/County:** Cass **Sampling Date:** 21-Sep-17
Applicant/Owner: Enbridge **State:** MN **Sampling Point:** u-138n30w10-aa2
Investigator(s): SMR **Section, Township, Range:** S. 10 T. 138N R. 30W
Landform (hillslope, terrace, etc.): Mound **Local relief (concave, convex, none):** convex **Slope:** 21.2 % / 12.0 °
Subregion (LRR or MLRA): LRR K **Lat.:** 46 46.7460 **Long.:** -94 27.6050 **Datum:** NAD 83
Soil Map Unit Name: W **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

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-138n30w10-aa2

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>1</u> (A)
2. _____	0	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata:	<u>4</u> (B)
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC:	<u>25.0%</u> (A/B)
4. _____	0	<input type="checkbox"/>	_____	Prevalence Index worksheet:	
5. _____	0	<input type="checkbox"/>	_____	Total % Cover of: _____ Multiply by: _____	
6. _____	0	<input type="checkbox"/>	_____	OBL species	<u>0</u> x 1 = <u>0</u>
7. _____	0	<input type="checkbox"/>	_____	FACW species	<u>20</u> x 2 = <u>40</u>
Sapling/Shrub Stratum (Plot size: <u>15</u>)			0 = Total Cover	FAC species	<u>0</u> x 3 = <u>0</u>
1. <i>Corylus cornuta</i>	70	<input checked="" type="checkbox"/>	FACU	FACU species	<u>120</u> x 4 = <u>480</u>
2. <i>Rubus Idaeus</i>	30	<input checked="" type="checkbox"/>	FACU	UPL species	<u>0</u> x 5 = <u>0</u>
3. _____	0	<input type="checkbox"/>	_____	Column Totals:	<u>140</u> (A) <u>520</u> (B)
4. _____	0	<input type="checkbox"/>	_____	Prevalence Index = B/A = <u>3.714</u>	
5. _____	0	<input type="checkbox"/>	_____	Hydrophytic Vegetation Indicators:	
6. _____	0	<input type="checkbox"/>	_____	<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
7. _____	0	<input type="checkbox"/>	_____	<input type="checkbox"/> Dominance Test is > 50%	
8. _____	0	<input type="checkbox"/>	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
9. _____	0	<input type="checkbox"/>	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
10. _____	0	<input type="checkbox"/>	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
11. _____	0	<input type="checkbox"/>	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
12. _____	0	<input type="checkbox"/>	_____	Definitions of Vegetation Strata:	
Herb Stratum (Plot size: <u>5</u>)			100 = Total Cover	Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
1. <i>Lotus corniculatus</i>	20	<input checked="" type="checkbox"/>	FACU	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..	
2. <i>Phalaris arundinacea</i>	20	<input checked="" type="checkbox"/>	FACW	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"/>	_____		
5. _____	0	<input type="checkbox"/>	_____		
6. _____	0	<input type="checkbox"/>	_____		
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"/>	_____		
Woody Vine Stratum (Plot size: <u>30</u>)			40 = Total Cover	Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
3. _____	0	<input type="checkbox"/>	_____		
4. _____	0	<input type="checkbox"/>	_____		
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.

