

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: SPP City/County: Carlton Sampling Date: 5/31/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: CRR51009d1U  
 Investigator(s): KRG/NTT Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Rise Local relief (concave, convex, none): VV  
 Slope (%): 0 - 2% Lat.: 46.581301 Long.: -92.603763 Datum: WGS84  
 Soil Map Unit Name: 504C NWI Classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions of the site typical for this time of the year?  (If no, explain in remarks)  
 Are vegetation , soil , or hydrology  significantly disturbed? Are "normal  
 Are vegetation , soil , or hydrology  naturally problematic? circumstances" present?   
 (If needed, explain any answers in remarks)

**SUMMARY OF FINDINGS**

Hydrophytic vegetation present? <u>    N    </u> Hydric soil present? <u>    N    </u> Indicators of wetland hydrology present? <u>    N    </u>	<b>Is the sampled area within a wetland?</b> <u>    N    </u>  If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The upland point is in a forest of mixed hardwoods and conifers.	

**HYDROLOGY**

Primary Indicators (minimum of one is 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"/> 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 on <input type="checkbox"/> Drift Deposits (B3)                     Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled <input type="checkbox"/> Inundation Visible on Aerial <input type="checkbox"/> Soils (C6) Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks) Surface (B8)	Secondary Indicators (minimum of two required) <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)
Field Observations: Surface water present? Yes <input type="checkbox"/> Depth (inches): _____ Water table present? Yes <input type="checkbox"/> Depth (inches): _____ Saturation present? Yes <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Indicators of wetland hydrology present?</b> <u>    N    </u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: No indicators of wetland hydrology were observed.	

**VEGETATION** - Use scientific names of plants

Sampling Point:

CRR51009d1U

Tree Stratum			Plot Size ( 30 ft )			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Abies balsamea</i>		60	Y	FAC			
2	<i>Quercus rubra</i>		5	N	FACU			
3	<i>Tilia americana</i>		5	N	FACU			
4								
5								
6								
7								
8								
9								
10								
			70	=	Total Cover			

  

Sapling/Shrub Stratum			Plot Size ( 15 ft )			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Betula papyrifera</i>		5	Y	FACU			
2	<i>Alnus incana</i>		5	Y	FACW			
3								
4								
5								
6								
7								
8								
9								
10								
			10	=	Total Cover			

  

Herb Stratum			Plot Size ( 5 ft )			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Carex pensylvanica</i>		30	Y	NI			
2	<i>Maianthemum canadense</i>		20	Y	FACU			
3	<i>Oryzopsis asperifolia</i>		20	Y	NI			
4	<i>Taraxacum officinale</i>		10	N	FACU			
5	<i>Trientalis borealis</i>		5	N	FAC			
6	<i>Fragaria virginiana</i>		5	N	FACU			
7	<i>Luzula acuminata</i>		5	N	FACU			
8								
9								
10								
11								
12								
13								
14								
15								
			95	=	Total Cover			

  

Woody Vine Stratum			Plot Size ( 30 ft )			Absolute % Cover	Dominant Species	Indicator Status
1								
2								
3								
4								
5								
			0	=	Total Cover			

**50/20 Thresholds**

	20%	50%
Tree Stratum	14	35
Sapling/Shrub Stratum	2	5
Herb Stratum	19	48
Woody Vine Stratum	0	0

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 6 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 33.33% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species	<u>0</u> x 1 =	<u>0</u>
FACW species	<u>5</u> x 2 =	<u>10</u>
FAC species	<u>65</u> x 3 =	<u>195</u>
FACU species	<u>55</u> x 4 =	<u>220</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>125</u> (A)	<u>425</u> (B)
Prevalence Index = B/A =	<u>3.40</u>	

**Hydrophytic Vegetation Indicators:**

Rapid test for hydrophytic vegetation

Dominance test is >50%

Prevalence index is ≤3.0\*

Morphological adaptations\* (provide supporting data in Remarks or on a separate sheet)

Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 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?** N

Remarks: (Include photo numbers here or on a separate sheet)  
 The upland vegetation is dominated by balsam fir with a mix of grasses and forbs in the herbaceous layer.

