WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Sandpiper	City/County:	Wadena	Sampling Date: <u>09/13</u>	/2014
Applicant/Owner: Enbridge		State: MN	Sampling Point:	WA017b7U
Investigator(s): DPT		Section, Townshi	ip, Range:	
Landform (hillslope, terrace, etc.): Rise	Lo	cal relief (concave,		ex/Convex
Slope (%): 2 Lat.:	Long.:	Datum:		
Soil Map Unit Name		NWI	Classification:	
Are climatic/hydrologic conditions of the site typi	cal for this time of the year		, explain in remarks)	
Are vegetation , soil , or hydr		ly disturbed?	Are "normal	
Are vegetation , soil , or hydr		roblematic?	circumstances" prese	nt? Yes
(If needed, explain any answers in remarks)	<u> </u>		•	
SUMMARY OF FINDINGS				
Hydrophytic vegetation present? N	Is the sample	d area within a we	etland? N	
Hydric soil present?				
Indicators of wetland hydrology present?	If yes ontional	wetland site ID:		
indicators of worlding hydrology procent:	II yoo, optional			
Remarks: (Explain alternative procedures here of	r in a separate report.)			
(— р				
HYDROLOGY				
		Seco	ndary Indicators (minimu	ım of two
Primary Indicators (minimum of one is required;	check all that apply)	requi	•	01 1110
,	Water-Stained Leaves (B9)		Surface Soil Cracks (B6)	
	Aquatic Fauna (B13)		Orainage Patterns (B10)	
	Marl Deposits (B15)		Moss Trim Lines (B16)	
	Hydrogen Sulfide Odor (C1)		Ory-Season Water Table (0	22)
	Oxidized Rhizospheres on L		Crayfish Burrows (C8)	<i>32)</i>
	Roots (C3)		Saturation Visible on Aerial	Imagory
	Presence of Reduced Iron (C9)	iiiageiy
	Recent Iron Reduction in Til		Stunted or Stressed Plants	(D1)
	Soils (C6)		Seomorphic Position (D2)	(D1)
	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
	Other (Explain in Remarks)		FAC-Neutral Test (D5)	
Surface (B8)	Other (Explain in Remarks)		/licrotopographic Relief (D	4)
Surface (Bo)		IV	iliciotopograpriic Relier (D	+)
Field Observations:				
Surface water present? Yes No	X Depth (inches)	١٠.	Indicators of	
Water table present? Yes No			wetland	
Saturation present? Yes No			hydrology	
(includes capillary fringe)	Deput (illenes)		present? N	
(includes capillary ininge)			present: N	_
Describe recorded data (stream gauge, monitori	ng well aerial photos prev	vious inspections)	if available:	
Describe recorded data (stream gadge, mornton	ng wen, aenai priotos, pre-	vious irispections),	ii availabic.	
Remarks:				
Tomano.				

Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC:
Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
Species that are OBL, FACW, or FAC:
Sapling/Shrub Stratum Plot Size (15 ft) Absolute Stratum Populus tremuloides 10 N FAC FACU FACU Species Across all Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 25.00% (A/B)
Sapling/Shrub
Sapling/Shrub Stratum Plot Size (
Sapling/Shrub Stratum Plot Size (15 ft) Absolute Species Status Species that are OBL, FACW, or FAC:
Sapling/Shrub Stratum Plot Size (15 ft) Absolute Stratus Stratu
Sapling/Shrub Stratum Plot Size (15 ft) Absolute Stratus Stratu
Stratum % Cover Species Status 1 Corylus cornuta 60 Y FAC Total % Cover of:
Total % Cover of: OBL species O
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
FACW species 0 x 2 = 0
FAC species 90 x 3 = 270
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
To a separate sheet) UPL species $20 \times 5 = 100$ Column totals $210 \times 5 = 100$ (A) $770 \times 5 = 100$ Total Cover Herb Stratum Plot Size (5 ft) Aralia nudicaulis Absolute % Cover Species Status 1 Aralia nudicaulis Dominant Species Status 2 Status 30 Y FACU 2 Furybia macrophylla Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) 3 Pteridium aquilinum 2 10 N FACU 5 Problematic hydrophytic vegetation* (explain)
8 Column totals 210 (A) 770 (B) Prevalence Index = B/A = 3.67 Herb Stratum Plot Size (5 ft) Absolute Species Status 1 Aralia nudicaulis 30 Y FACU 2 Eurybia macrophylla 20 Y UPL 3 Pteridium aquilinum 20 Y UPL 3 Pteridium aquilinum 20 N FACU 20 Y UPL 20 Species
9
Herb Stratum Plot Size (5 ft) Absolute Species Status 1 Aralia nudicaulis 3 Pteridium aquilinum 10 N FACU 5 FACU 6 FACU 7 FACU 7 FACU 7 FACU 8 Supporting data in Remarks or on a separate sheet) 7 Foblematic hydrophytic vegetation 8 FACU 7 FACU 8 FACU 8 Supporting data in Remarks or on a separate sheet) 8 FACU 7 FOBlematic hydrophytic vegetation 8 FACU 8
Herb Stratum Plot Size (5 ft) Absolute % Cover Species Status 1 Aralia nudicaulis 30 Y FACU 2 Eurybia macrophylla 20 Y UPL 3 Pteridium aquilinum 10 N FACU 5 Eurybia macrophylla 10 N FACU
Herb Stratum Plot Size (5 ft) Absolute % Cover Species Status 1 Aralia nudicaulis 30 Y FACU 2 Eurybia macrophylla 20 Y UPL 3 Pteridium aquilinum 10 N FACU 5 Eurybia macrophylla 10 N FACU
Herb Stratum Plot Size (5 ft) Absolute % Cover Species Status 1
1 Aralia nudicaulis 30 Y FACU Prevalence index is ≤3.0* 2 Eurybia macrophylla 20 Y UPL Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) 5
2 Eurybia macrophylla 3 Pteridium aquilinum 10 N FACU Separate sheet) Problematic hydrophytic vegetation* (explain)
3 Pteridium aquilinum 10 N FACU supporting data in Remarks or on a separate sheet) 5 Problematic hydrophytic vegetation* (explain)
4 separate sheet) 5 Problematic hydrophytic vegetation* (explain)
Froblematic hydrophytic vegetation* (explain)
6 (explain)
r
8 present, unless disturbed or problematic
9
Definitions of Vegetation Strata:
11 Tree - Woody plants 3 in. (7.6 cm) or more in diameter in the state of the state
12 breast height (DBH), regardless of height.
13
Sapling/shrub - Woody plants less than 3 in. DBH and
15 greater than 3.28 ft (1 m) fall.
60 = Total Cover Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine Size, and woody plants less than 3.28 ft tall.
Stratum Plot Size () Cover Species Status Woody vines - All woody vines greater than 3.28 ft in
1 height.
2
3
⁴ Hydrophytic
5 vegetation
0 = Total Cover present? N

SOIL WA017b7U **Sampling Point:** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Texture Remarks (Inches) Color (moist) Loc** Color (moist) Type* 10 YR 3/3 8 Sand 18 10 YR 4/4 Sand 20 10 YR 4/3 95 10 YR 4/6 5 С М Sand *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators: Indicators for Problematic Hydric Soils:** 2 cm Muck (A10) (LRR K, L, MLRA 149B Histisol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L Hydrogen Sulfide (A4) (LRR R, MLRA 149B Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Suface (A11) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Red Parent Material (F21) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) 149B) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? N Depth (inches): Remarks: