WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Sandpiper	City/County:	Waden	a	Sampling Date: 0)9/13/2	2014
Applicant/Owner: Enbridge		State:	MN	Sampling Po	int: W	/A017b1W
Investigator(s): DPT		Section	n, Towi	nship, Range:		
Landform (hillslope, terrace, etc.): Depression	Lo	cal relief	(conc	ave, convex, none): 0	Conca	/e/Linear
Slope (%): 0 Lat.: Long.:		Dat	tum:			
Soil Map Unit Name			N	WI Classification:		
Are climatic/hydrologic conditions of the site typical for this	time of the year	?	(f no, explain in remarks	.)	
Are vegetation, soil, or hydrology	significantl	y disturb	ed?	Are "normal		
Are vegetation, soil, or hydrology	naturally p	roblemat	tic?	circumstances" p	present	t? Yes
(If needed, explain any answers in remarks)						

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	Y Y	Is the sampled area within a w	etland? Y
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	WA017b1W
Remarks: (Explain alternative procedures here	or in a se	eparate report.)	
PEM - Type 2, sedge meadow			

HYDROLOGY							
					Secondary Indicators (minimum of two		
	Primary Indicators (minimum of one is required; check all that apply)		required)				
X Surface Water (A1)				er-Stained Leaves (B9)	Surface Soil Cracks (B6)		
X High Water Table (A2)				atic Fauna (B13)	Drainage Patterns (B10)		
X Saturation (A3)				Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)				ogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)			Oxidi	ized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)			Root	s (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)			Pres	ence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)			Rece	ent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Ae	rial		Soils	(C6)	X Geomorphic Position (D2)		
Imagery (B7)			Thin	Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Cor	cave	•	Othe	r (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)		•			Microtopographic Relief (D4)		
Field Observations:							
Surface water present?	Yes	Х	No	Depth (inches): 5	Indicators of		
Water table present?	Yes	Х	No	Depth (inches):	wetland		
Saturation present?	Yes	Х	No	Depth (inches):	hydrology		
(includes capillary fringe)	-		-		present? Y		
Describe recorded data (st	ream gau	ae, mor	nitoring w	ell, aerial photos, previous inspe	ctions), if available:		
, , , , , , , , , , , , , , , , , , ,	0.		0		,.		
Remarks:							

VEGETATION - Use scientific names of plants

Plot Size (

Plot Size (

Plot Size (

30 ft

15 ft

5 ft

)

)

)

Tree Stratum

Sapling/Shrub

Stratum

Herb Stratum

Carex lacustris

Carex lasiocarpa

1

12

13 14

15

2 3 4

5

Woody Vine

Stratum

Absolute

% Cover

0

Absolute

% Cover

0

Absolute

% Cover

80

20

100

Absolute

% Cover

0

)

Dominant

Species

= Total Cover

Dominant

Species

= Total Cover

Dominant

Species

Υ

Υ

= Total Cover

Dominant

Species

= Total Cover

Indicator

Status

	Sampling Point: WA017b1W
Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum20Woody Vine Stratum0
	Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 2 Total Number of Dominant Species Across all Strata: 2 Percent of Dominant Species that are OBL, FACW, or FAC: 2 (B) Percent of Dominant Species that are OBL, Species that are OBL,
Indicator Status	FACW, or FAC:100.00% (A/B)
	Prevalence Index WorksheetTotal % Cover of:OBL species $100 \times 1 = 100$ FACW species $0 \times 2 = 0$ FAC species $0 \times 3 = 0$ FACU species $0 \times 4 = 0$ UPL species $0 \times 5 = 0$ Column totals $100 (A) = 100 (B)$ Prevalence Index = B/A = 1.00
Indicator Status OBL OBL	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is ≤3.0* Morphogical 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.

 $\ensuremath{\text{Herb}}$ - 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.

Υ

Hydrophytic

vegetation present?

Remarks: (Include photo numbers here or on a separate sheet)

Plot Size (

SOIL							Sa	mpling Point: WA017b1W
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	e indicato	r or confirm the absence	e of indicators.)
Depth	n Matrix Red			ox Features			Texture	Remarks
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**		Romanio
0-5	10YR 2/1	100					Mucky sand	
5-20	10YR 5/2	95	10YR 4/6	5	С	М	Sand	
*T		Dealet	DM Dadua	- Matei				
	PL=Pore Lining,			d Matri	x, CS=C	overed c	r Coated Sand Grains	
	I Indicators:	IVI—IVIAI					Indicators for Prob	lematic Hydric Soils:
Histisol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B 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) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) X Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149B Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (S7) (LRR R, MLRA Polyvalue Below Dark Surface (TF12) Other (Explain in Remarks) Thindicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Polytematrix Restrictive Layer (if observed):: Type: P Type: Depth (inches): Hydric soil present? Y							edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) 77) (LRR K, L v Surface (S8) (LRR K, L) ce (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) plain Soils (F19) (MLRA 149B) 7A6) (MLRA 144A, 145, 149B) erial (F21) ark Surface (TF12) n Remarks) oblematic	
Remarks:								