WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Sandpiper	City/County:	Waden	a	Sampling Date:	09/13	8/2014
Applicant/Owner: Enbridge		State:	MN	Sampling P	oint:	WA017a2W
Investigator(s): DPT		Section	, Township,	Range:		
Landform (hillslope, terrace, etc.): Depression	Lo	cal relief	(concave, c	onvex, none):	Conc	ave/Concave
Slope (%): 0 Lat.: Long.:		Dat	um:			
Soil Map Unit Name			NWI CI	assification:		
Are climatic/hydrologic conditions of the site typical for this	time of the year	?	(If no, e	explain in remark	(S)	
Are vegetation, soil, or hydrology	significantl			Are "normal		
Are vegetation , soil , or hydrology	naturally p	roblemati	c?	circumstances"	prese	ent? Yes
(If needed, explain any answers in remarks)						

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Y Hydric soil present? Y	Is the sampled area within a wetland? Y					
Indicators of wetland hydrology present? Y	If yes, optional wetland site ID: WA017a1W					
Remarks: (Explain alternative procedures here or in a separate report.)						
PEM - Type 3, shallow marsh						

HYDROLOGY				
Primary Indicators (minimum of one is requi	ired: check all that apply)	Secondary Indicators (minimum of two required)		
X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) X Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4)		
Field Observations:Surface water present?YesWater table present?YesXXSaturation present?YesX(includes capillary fringe)	NoDepth (inches):6NoDepth (inches):NoDepth (inches):	Indicators of wetland hydrology present? Y		
Describe recorded data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if available:		
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

Scirpus cyperinus

Phalaris arundinacea

1 2

10

1

2 3

14

15

Woody Vine

Stratum

Dominant

Species

= Total Cover

Dominant

Species

= Total Cover

Dominant

Species

Υ

Υ

Ν

= Total Cover

Dominant

Species

= Total Cover

Absolute

% Cover

0

Absolute

% Cover

0

Absolute

% Cover

70

20

10

100

Absolute

% Cover

0

)

	Sampling Point: WA017a2W
	50/20 Thresholds
Indicator	20% 50%
Status	Tree Stratum 0 0
	Sapling/Shrub Stratum 0 0
	Herb Stratum 20 50
	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:(B)
	Percent of Dominant
	Species that are OBL,
Indicator	FACW, or FAC: 100.00% (A/B)
Status	、 /
	Prevalence Index Worksheet
	Total % Cover of:
	OBL species $90 \times 1 = 90$
	FACW species $10 \times 2 = 20$
	FAC w species $10 \times 2 = 20$ FAC species $0 \times 3 = 0$
<u> </u>	FACU species $0 \times 3 = 0$ FACU species $0 \times 4 = 0$
	UPL species $0 \times 4 = 0$ UPL species $0 \times 5 = 0$
	Column totals 100 (A) 110 (B)
<u> </u>	Prevalence Index = $B/A = 1.10$
	Hydrophytic Vegetation Indicators:
Indicator	Rapid test for hydrophytic vegetation
Status	X Dominance test is >50%
OBL	X Prevalence index is ≤3.0*
OBL	Morphogical adaptations* (provide
FACW	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 of
	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.
Indicator	
Status	Woody vines - All woody vines greater than 3.28 ft in
	height.
	Hydrophytic
	vegetation
	present? Y

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

Plot Size (

SOIL							San	npling Point: WA017a2W
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	r or confirm the absence	of indicators.)
Depth	Matrix		Red	ox Feat			Texture	Remarks
(Inches)	Color (moist)	%	Color (moist)	ist) % Type* Loc**		Loc**		Remarks
0-14	10YR 2/1	100					Muck	
14-20	10YR 5/2	95	10YR 4/6	5	С	М	Sand	
				d Matri	x, CS=Co	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining,	M=Mat	rix					
Hydric Soi	I Indicators:						Indicators for Probl	ematic Hydric Soils:
X 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 Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA Sandy Redox (S5) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 4) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Thin Remarks) Other (Explain in Remarks) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Polematic						t or Peat (S3) (LRR K, L, R) 7) (LRR K, L Surface (S8) (LRR K, L) æ (S9) (LRR K, L) Masses (F12) (LRR K, L, R) blain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21) rk Surface (TF12) Remarks)		
Restrictive Layer (if observed): Type: Depth (inches):				-	Hydric soil present? Y			
Remarks:								