WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Sandpiper		City/County:	Wadena	a	Sampling Date	: <u>09/13</u>	/2014	
Applicant/Owner: Enbridge			State:	MN	Sampling I	oint:	WA017a2U	
Investigator(s): DPT			Section,	, Townshi	p, Range:			
Landform (hillslope, terrace, etc.): Rise		Loc			convex, none):	Conv	ex/Linear	
Slope (%): 2 Lat.:	Long.:	-	Dati	um:				
Soil Map Unit Name	<u> </u>			NWI	Classification:			
Are climatic/hydrologic conditions of the site ty	pical for this t	ime of the year	?	(If no	, explain in remar	ks)		
Are vegetation , soil , or hyd		significantly		ed?	Are "normal			
	drology	naturally pi			circumstances	" prese	ent? Yes	
(If needed, explain any answers in remarks)	<u> </u>					•		
,								
SUMMARY OF FINDINGS								
Hydrophytic vegetation present?	N	Is the sampled area within a wetland?						
Hydric soil present?	•							
Indicators of wetland hydrology present?	N	If yes, optional	wetland :	site ID:				
		, ,						
Remarks: (Explain alternative procedures here	or in a separ	ate report.)						
	·	. ,						
HYDROLOGY								
				Seco	ndary Indicators (minimu	um of two	
Primary Indicators (minimum of one is required	l: check all th	at apply)		requi				
Surface Water (A1)	•	ed Leaves (B9)		-	urface Soil Cracks	(B6)		
High Water Table (A2)	Aquatic Fau				rainage Patterns (
Saturation (A3)	Marl Deposit				loss Trim Lines (B			
Water Marks (B1)	_	ulfide Ódor (C1)			ry-Season Water	,	C2)	
Sediment Deposits (B2)		izospheres on L			rayfish Burrows (C		- /	
Drift Deposits (B3)	Roots (C3)		9		aturation Visible o		l Imagery	
Algal Mat or Crust (B4)		Reduced Iron (0	C4)		C9)		age.y	
Iron Deposits (B5)	_	Reduction in Till			tunted or Stressed	Plants	s (D1)	
Inundation Visible on Aerial	Soils (C6)				eomorphic Positio		` '	
Imagery (B7)	Thin Muck S	urface (C7)			hallow Aquitard (D			
Sparsely Vegetated Concave	_	in in Remarks)			AC-Neutral Test ([
Surface (B8)					licrotopographic R	,	4)	
				<u> </u>	norotopograpino rt	01101 (D	• /	
Field Observations:								
	No X	Depth (inches)	:		Indicators of			
		Depth (inches)			wetland			
		Depth (inches)			hydrology			
(includes capillary fringe)		-1 - (/			present?	Ν		
(meraute tapmen) minger							_	
Describe recorded data (stream gauge, monito	ring well, aer	ial photos, prev	ious insp	ections).	if available:			
33.,	J - ,	, , , , , , ,		/ /				
Remarks:								

	ts			Sampling Point: WA017a2
	Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
Tree Stratum Plot Size (30 ft)				
Description of the second of t	% Cover	Species	Status	Tree Stratum 8 20
Populus tremuloides	30	<u>Y</u>	FAC	Sapling/Shrub Stratum 15 38
Pinus resinosa	10	Y	FACU	Herb Stratum 8 20
3 4 5 6				Woody Vine Stratum 0 0
				Danis Tari Walalari
				Dominance Test Worksheet
				Number of Dominant
				Species that are OBL,
				FACW, or FAC: 1 (A)
				Total Number of Dominant
	40	Total Cover		Species Across all Strata:5 (B)
	40	= Total Cover		Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size (15 ft)	Absolute	Dominant	Indicator	FACW, or FAC: <u>20.00%</u> (A/B
Stratum	% Cover	Species	Status	
Corylus cornuta	30	Y	FACU	Prevalence Index Worksheet
Vaccinium angustifolium	20	Y	FACU	Total % Cover of:
Rubus idaeus	10	N	FAC	OBL species 0 x 1 = 0
Populus tremuloides	10	N	FAC	FACW species 0 x 2 = 0
Pinus banksiana	5	N	FACU	FAC species 50 x 3 = 150
				FACU species 105 x 4 = 420
				UPL species $0 \times 5 = 0$
				Column totals 155 (A) 570 (B)
				Prevalence Index = $B/A = 3.68$
	75	= Total Cover		
				Hydrophytic Vegetation Indicators:
Heli Oraci ve Black Ottack (5 %)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5 ft)	% Cover	Species	Status	Dominance test is >50%
Poa pratensis	40	·Y	FACU	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
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.
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	40	- Total Cayor		breast height (DBH), regardless of height.
	40	= Total Cover		breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
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SOIL WA017a2U **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 10 YR 3/4 100 Loamy sand 10 YR 4/4 20 100 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: