## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City	/County: Hubbard	Sampling Date: 6/13/2014
Applicant/Owner: Enbridge	State: MN	
Investigator(s): EAB/RAJ		wnship, Range:
Landform (hillslope, terrace, etc.) Depression		ncave, convex, none CC
	g.: -95.139378 Datum:	
Soil Map Unit Name: 1126B		NWI Classification:
Are climatic/hydrologic conditions of the site typical for th		(If no, explain in remarks)
Are vegetation, soil, or hydrology	significantly disturbed?	
Are vegetation, soil, or hydrology	naturally problematic?	circumstances" present?
(If needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Y Hydric soil present? Y	Is the sampled area within	n a wetland? Y
Indicators of wetland hydrology present? Y	If yoo, optional watland aita	
Indicators of wetland hydrology present?	If yes, optional wetland site	ID
Remarks: (Explain alternative procedures here or in a se	parate report.)	
The wetland is a sedge meadow located in a stat		
6		
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check all		required)
	tained Leaves (B9)	Surface Soil Cracks (B6)
	Fauna (B13)	Drainage Patterns (B10)
	posits (B15) en Sulfide Odor (C1)	<ul> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> </ul>
	d Rhizospheres on	Crayfish Burrows (C8)
	oots (C3)	Saturation Visible on Aerial Imagery
	e of Reduced Iron (C4)	(C9)
	Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Soils (C		Geomorphic Position (D2)
Imagery (B7)	ck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Other (E	Explain in Remarks)	Microtopographic Relief (D4)
Surface (B8)		✓ FAC-Neutral Test (D5)
Field Observations:		
Surface water present? Yes	Depth (inches):	Indicators of
Water table present? Yes	Depth (inches): 6	wetland
Saturation present? Yes	Depth (inches): 0	hydrology
(includes capillary fringe)		present? Y
(		
	avial ubataa uurutaa iraa at	ana) if available:
Describe recorded data (stream gauge, monitoring well, a	aerial photos, previous inspectio	ons), if available:
	aerial photos, previous inspectio	ons), if available:
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VEGETATION - Use scientific names of plants						Sampling Point				
Tree Stratum	Plot Size (	30 ft	)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds Tree Stratum Sapling/Shrub Stratum Herb Stratum Woody Vine Stratum	20% 0 0 18 0	50% 0 0 46 0	
4 5 6 7 8 9 10 Sapling/Shrub Stratum 1	Plot Size (	15 ft	)	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Dominance Test Worksh Number of Dominant Species that are OBL, FACW, or FAC: Total Number of Dominant Species Across all Strata: Percent of Dominant Species that are OBL, FACW, or FAC: Prevalence Index Works	3 t 3	(A) (B) )% (A/B)	
2 3 4 5 6 7 8 9 10							Total % Cover of:OBL species56FACW species30FAC species5FAC species0YACU species0VPL species0Column totals91Prevalence Index = B/A =	$\begin{array}{c} 2 = \\ 3 = \\ 4 = \\ 5 = \end{array} \begin{array}{c} 6 \\ 1 \\ 0 \\ 0 \end{array}$	0 5 ) 31 (B)	
Herb Stratum           1         Carex stipata           2         Carex utriculata           3         Phalaris arund           4         Carex stricta           5         Viola nephroph           6         Equisetum arva           7         Carex pellita           8         Cicuta maculati	linacea nylla ense	5 ft	)	0 Absolute % Cover 20 20 10 10 5 5 1	= Total Cover Dominant Species Y Y Y N N N N N N N N N N	Indicator Status OBL OBL FACW OBL FACW FAC OBL OBL OBL	Hydrophytic Vegetation I Rapid test for hydroph X Dominance test is >50 X Prevalence index is <3 Morphological adaptat supporting data in Ren separate sheet) Problematic hydrophyt (explain) *Indicators of hydric soil and wet present, unless disturbed or prob	ytic veget % .0* ions* (pro narks or o ic vegeta land hydrol	tation ovide on a tion*	
9 10 11 12 13 14 5 5 5 5 5 5 5 5 5 5 5 5 5							Definitions of Vegetation Tree - Woody plants 3 in. (7.6 cr breast height (DBH), regardless Sapling/shrub - Woody plants le greater than 3.28 ft (1 m) tall.	n) or more of height.		
15. Woody Vine Stratum	Plot Size (	30 ft	)	91 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Herb - All herbaceous (non-woo size, and woody plants less than Woody vines - All woody vines - height.	13.28 ft tall.		
3 4 5					= Total Cover		Hydrophytic vegetation present? Y	_		
Remarks: (Include p The vegetation					vest Territory	v sedge, and re	eed canary grass.			

SOIL								Samp	ling Point:	HUC5110a1W	
Profile	Description:	(Describe	to the	depth needed t				r confirm	the absence	of indicators.)	
Depth										Demerke	
(In.)	Color	(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	Remarks	
0-5	Hue 10YR	2/1	100						М		
5-14	Hue 10YR	2/1	100			1			MMI		
14-20	Hue 10YR	2/1	100						SC		
						1					
*Type:	C=Concentr	ation, D=D	epletio	n, RM=Reduce	d Matrix, C	CS=Co	vered or C	oated Sa	and Grains		
**Locat	ion: PL=Por	e Lining, M	=Matri	х							
Hydric	Soil Indica	tors:						Indicat	ors for Prot	olematic Hydric Soils:	
Hydrogen Sulfide (A4)       (LRR R, MLRA 149B       Dark Surface (1)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)       Polyvalue Belo         Depleted Below Dark Surface (A11)       (LRR K, L)       Thin Dark Surface (A12)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Iron-Manganes         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)       Piedmont Floor         Sandy Gleyed Matrix (S4)       Redox Dark Surface (F6)       Mesic Spodic (1)         Depleted Dark Surface (S5)       Depleted Dark Surface (F7)       Red Parent Matrix (F3)							at or Peat (S3) (LRR K, L, R) S7) (LRR K, L w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) Iplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks)				
Restrictive Layer (if observed): Type: Depth (inches):								Hydric soil present? Y			
Remark The		from muc	k to m	nucky mineral	soil is gr	radua	I.				