WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: Cass		Sampling Date: 2016-07-29		
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: w-139n25w18-ad1		
Investigator(s): DPT, MGH	Section, Townshi	p, Range: S18, T139N, R25W			
Landform (hillslope, terrace, etc.): Depression	n	Local Relief (concave, convex,	none): CL Slope (%): 0-2%		
Subregion (LRR or MLRA):	 Latitude: 46	5.8560234690 Longitude	2: -93.90071846 Datum: NAD83		
Soil Map Unit Name: 540	<u> </u>		NWI Classification: PUBH		
Are climatic/hydrologic conditions on the sit	e typical for this time of year	? (if no, explain in Remarks):	Yes		
Are Vegetation No , Soil No , or Hydrol	logy No significantly distur	ped? Are "Normal Circumstanc	es" present? Yes		
Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic? (If needed, explain any answers in Remarks)					
SUMMARY OF FINDINGS - Attach site ma	ap showing sampling point lo	cations, transects, important f	reatures, etc.		
Hydrophytic Vegetation Present?	Yes	Is the Sampled Area			
Hydric Soil Present?	Yes	within a Wetland?	Yes		
Wetland Hydrology Present?	Yes	If yes, optional Wetland Site II	D: <u>w-139n25w18-ad1</u>		
Remarks: (Explain alternative procedures he	ere or in a separate report.)	-			
Existing forest road, no digging, potential b	uried utilities.				
LIVERGLOCY					
HYDROLOGY Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is requi		(T- 2)	Surface Soil Cracks (B6)		
yes Surface Water (A1)	Water-Stained Leave	s (B9)	Drainage Patterns (B10)		
yes High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
yes Saturation (A3)	Marl Deposits (B15)	or (C1)	Dry-Season Water Table (C2)		
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Od	es on Living Roots (C3)	Crayfish Burrows (C8)		
Drift Deposits (B3)	Presence of Reduced		Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction		Stunted/Stressed Plants (D1) Yes Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rei		Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)			yes FAC-Neutral Test (D5)		
Field Observations:					
	<u>es</u> Depth (inches)	12			
	es Depth (inches)	_ i			
_	es Depth (inches)		:land Hydrology Present? Yes_		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, p	revious inspections), if available	p:		
Jessense need data (on earn gaage) met	meening men, denai priocos, p	. evious inspections,, it urunus.			
Remarks:					

		Absolute	Dominant	Indicator	Dominance Test worksheet	:		
Tree Stratum	(Plot Size: 30	% Cover	Species?	Status	Number of Dominant Specie			
1					That Are OBL, FACW, or FAC	:: <u>3</u>	(A)	
2.					Total Number of Dominant			
					Species Across All Strata:	4	(B)	
4					Percent of Dominant Specie	S		
5.					That Are OBL, FACW, or FAC	: <u>75</u>	(A/B)	
6					Prevalence Index workshee	t:		
7					Total % Cover of:	Multiple	y by:	
		0	= Total Cover		OBL species	60.00 x 1	60	_
Sapling/Shrub Stratum (P	Plot Size: <u>15</u>				FACW species	40.00 x 2	80	_
1. Alnus incana		5.00	Yes	FACW	FACU species	5.00 x 3	20	_
2. Spiraea alba		5.00	Yes	FACW	UPL species	<u>0.00</u> x 4	0	_
3. Rubus idaeus		5.00	Yes	FACU	Column Totals	115 (A)	190	_(B)
4					Prevalence Inde	ex = B/A = <u>1.652</u>	1739	
5					Hydrophytic Vegetation Ind	icators:		
6					1 - Rapid Test for H	ydrophytic Veget	ation	
7					yes 2 - Dominance Test	is > 50%		
		15	= Total Cover		yes 3 - Prevalence Inde	x is $\le 3.0^1$		
Herb Stratum (Plot Size:	5)				4 - Morphological A			
Carex lacustris		35.00	Yes	OBL	supporting data in Rema	arks or on a separate	sheet)	
2. Glyceria canadensis		15.00	No No	OBL	Problematic Hydrophytic Vege	tation ¹ (Explain)		
3. Calamagrostis canader	ısis	15.00	<u>No</u>	FACW	Indicators of hydric soil and wetlan	nd hydrology must be	present, unl	ess
4. Impatiens capensis		10.00	<u>No</u>	FACW	disturbed or problematic.			
5. Solidago gigantea		10.00	<u>No</u>	FAC	Definitions of Vegetation St	trata:		
6. Onoclea sensibilis		5.00	<u>No</u>	FACW	4			
7. Nymphaea odorata		5.00	<u>No</u>	OBL	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.			
8. Sagittaria latifolia		5.00	No No	OBL	- Incignit (5511), regardless of the	.6		
9					Sapling/Shrub - Woody plants	less than 3 in. DB	H and grea	ter than
10					or equal to 3.28 ft (1 m) tall.			
					Herb - All herbaeceous (non-w		ardless of s	ize, and
12					woody plants less than 3.28 ft	tall.		
		100	= Total Cover		Woody vines - All woody vines	s greater than 3.28	B ft in heigh	ıt.
Woody Vine Stratum (Plo	ot Size: 30)							
1								
2.					Hydrophytic			
3.					Vegetation Present?	Yes		
4.			_					
		0	=Total Cover					
Remarks: (include photo	numbers here or on a separate sheet				-			
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Sampling Point: w-139n25...

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Site Photograph 1 Sampling Point: w-139n25w18-ad1



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Latitude: 46.8560204934765	Cowardin Classification: PEM
Longitude: -93.9007193037252	Circular 39: 4
Direction: west	Eggers & Reed: Deep Marsh
Remarks:	

Site Photograph 2 Sampling Point: w-139n25w18-ad1



Latitude:	46.856020451567	Cowardin Classification: PEM
Longitude:	-93.9007201419155	Circular 39: 4
Direction: nort	th	Eggers & Reed: Deep Marsh
Remarks:		
1		