## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City	/County: Hubbard	Sampling Date: 6/13/2014				
Applicant/Owner: Enbridge	State: M					
Investigator(s): EAB/RAJ		ownship, Range:				
Landform (hillslope, terrace, etc.) Side slope		oncave, convex, nonc <u>VL</u>				
	g.: <u>-95.139548</u> 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? N Hydric soil present? N	Is the sampled area with	nin a wetland? N				
Indicators of wetland hydrology present? N If yes, optional wetland site ID:						
Remarks: (Explain alternative procedures here or in a se	narate report )					
The sample point is located upslope of a sedge r	,	quaking aspen				
		quaning appen.				
HYDROLOGY						
		Secondary Indicators (minimum of two				
Primary Indicators (minimum of one is required; check al	l that apply)	required)				
	stained Leaves (B9)	Surface Soil Cracks (B6)				
	Fauna (B13)	Drainage Patterns (B10)				
	posits (B15)	Moss Trim Lines (B16)				
	en Sulfide Odor (C1)	Dry-Season Water Table (C2)				
<b></b>	d Rhizospheres on	<ul> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery</li> </ul>				
	coots (C3) ce of Reduced Iron (C4)	(C9)				
	Iron Reduction in Tilled	Stunted or Stressed Plants (D1)				
☐ Inundation Visible on Aerial Soils (C		Geomorphic Position (D2)				
_ `	_ ()					
	Explain in Remarks)	<ul> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> </ul>				
Surface (B8)		FAC-Neutral Test (D5)				
Field Observations:						
Surface water present? Yes	Depth (inches):	Indicators of				
Water table present? Yes	Depth (inches):	wetland				
Saturation present? Yes	Depth (inches):	hydrology				
(includes capillary fringe)	· · · · ·	present? N				
Describe recorded data (atractic second seco	anial shataa anariana in aa a					
Describe recorded data (stream gauge, monitoring well, a	aenai priotos, previous inspec	uons), if available:				
Demodue						
Remarks: No indicators of wetland hydrology observed.						
no indicators of wettand hydrology observed.						

Plot Size (			EGETATION - Use scientific names of plants					: HUC5110a1U			
Plot Size (			Absolute	Dominant	Indicator	50/20 Thresholds	20%	50%			
	30 ft	)	% Cover	Species	Status	Tree Stratum	16	40			
des			80	Y	FAC	Sapling/Shrub Stratum	16	40			
				·		Herb Stratum	14	35			
						Woody Vine Stratum	0	0			
						woody vine offaturi	0	0			
						Dominance Test Worksh	eet				
						Number of Dominant					
						Species that are OBL,					
						FACW, or FAC:	1	(A)			
						Total Number of Dominant	t				
						Species Across all Strata:	4	(B)			
			80	= Total Cover		Percent of Dominant					
						Species that are OBL,					
Plot Size (	15 ft	)	Absolute	Dominant	Indicator	FACW, or FAC:	25.00	<u>%</u> (A/B)			
	10 10	,	_ % Cover	Species	Status						
na			80	Y	FACU	Prevalence Index Works	heet				
						Total % Cover of:					
						OBL species 0 x 1	=	0			
								C			
								70			
								00			
								)			
								<u>70</u> (B)			
						Prevalence Index = B/A =	3.50	3			
			80	- Total Cover							
						Hydrophytic Vegetation	ndicato	·e ·			
			Absolute	Dominant	Indicator						
Plot Size (	5 ft	)						lation			
tifolium			20	Y	FACU						
itacea			20	Y	FACU	Morphological adaptat	ions* (pro	ovide			
			5	N	FACU	supporting data in Ren	narks or	on a			
olia			5	N	NI	<pre>separate sheet)</pre>					
ıcus			5	N	NI	Problematic hydrophyt	ic vegeta	ition*			
ca			5	N	NI	(explain)					
rdbergii				N				logy must b			
3			5	N	FAC	present, unless disturbed or prol	olematic				
					<u> </u>	Definitions of Vegetation	Strata:				
						Tree - Woody plants 3 in. (7.6 cr	n) or more	in diameter			
						breast height (DBH), regardless	of height.				
						Sanling/shrub - Woody plants la					
						Sapling/shrub - Woody plants le greater than 3.28 ft (1 m) tall.	ess than 3	III. DBH alli			
			70	Total Cover		greater than 3.28 ft (1 m) tall.					
			70	= Total Cover		greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woo	dy) plants,	regardless			
Plot Size (	30 ft	)	70 Absolute	Total Cover	Indicator	greater than 3.28 ft (1 m) tall.	dy) plants,	regardless			
Plot Size (	30 ft	)			Indicator Status	greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woo	dy) plants, ı 3.28 ft tall	regardless			
Plot Size (	30 ft	)	Absolute	Dominant		greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woo size, and woody plants less than	dy) plants, ı 3.28 ft tall	regardless			
Plot Size (	30 ft	)	Absolute	Dominant		greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woo size, and woody plants less than Woody vines - All woody vines -	dy) plants, ı 3.28 ft tall	regardless			
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	Plot Size ( tifolium tacea olia icus ca dbergii	Plot Size ( 5 ft ifolium tacea	Plot Size ( 5 ft ) <i>itfolium</i> <i>tacea</i> <i>iolia</i> <i>icus</i> <i>ca</i> <i>dbergii</i>	Plot Size (     15 ft     Absolute % Cover       na     80	Plot Size (15 ft )Absolute % CoverDominant Speciesa80Ya80Ya-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-bit5bita5bita5ca5a5bita5<	Plot Size (15 ft )Absolute % CoverDominant SpeciesIndicator Statusna80YFACU80YFACU999	Image: Second	Plot Size (15 ftAbsolute % CoverDominant SpeciesStatus StatusPlot Size (15 ftAbsolute % CoverDominant SpeciesIndicator SpeciesPrevalence Index Worksheet Total % Cover of: OBL speciesPrevalence Index Worksheet Total % Cover of: OBL speciesPrevalence Index Worksheet Total % Cover of: OBL speciesma80YFACUPrevalence Index Worksheet Total % Cover of: OBL speciesTotal % Cover of: OBL speciesN 1 = 0 COUL Speciesma80YFACUFACU species O x 1 = 0Y 1 = 0 COUL Speciesma80YFACUFACU species O x 2 = 0ma80YFACUFACU species O x 2 = 0ma80YFACUFACU species O x 2 = 0ma80Total % Cover of: Column totals 215 (A)Total % Cover of: OCumn totals 215 (A)Total % Cover of: OCumn totals 215 (A)Plot Size (5 ftAbsolute % CoverDominant Y FACUIndicator Species Y FACUPlot Size (5 ftNNi % CoverYaca5NNi Nima5NNi Prevalence Index is 3.0*Morphological adaptations* (pro supporting data in Remarks or or separate sheet)Problematic hydrophytic vegeta (explain)ma5NNi Problematic hydrophytic soil and wetland hydro			

SOIL								Samp	ling Point:	HUC5110a1U	
Profile	Description:	(Describe	to the d	lepth needed t	o docume	nt the i	indicator o	r confirm	the absence of	of indicators.)	
Depth		Matrix			Redox Features						
(In.)	Color	(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	Remarks	
0-2	Hue 10YR	3/1	100						SL		
2-18	Hue 10YR	3/2	100						LS		
									1		
*Type:	C=Concentr	ation, D=D	epletion	, RM=Reduce	d Matrix, C	CS=Co	vered or C	oated Sa	and Grains		
**Locat	ion: PL=Por	e Lining, M	=Matrix								
Hydric	Soil Indicat	tors:						Indicat	ors for Proble	ematic Hydric Soils:	
	☐ Histosol (A1)       ☐ Polyvalue Below Surface         ☐ Histic Epipedon (A2)       [S8) (LRR R, MLRA 149B)         ☐ Black Histic (A3)       [Thin Dark Surface (S9)]         [Hydrogen Sulfide (A4)       [LRR R, MLRA 149B]         [Depleted Below Dark Suface (A11)]       [LRR K, L]         [Depleted Below Dark Surface (A12)]       [Loamy Mucky Mineral (F1)]         [Sandy Mucky Mineral (S1)]       [Depleted Dark Surface (S5)]         [Stripped Matrix (S4)]       [Depleted Dark Surface (F6)]         [Dark Surface (S7) (LRR R, MLRA										
Restrictive Layer (if observed): Type: Depth (inches): Remarks:							Hydric soil present? <u>N</u>				
		ndicators	obser	ved. There is	s a very (	dense	, 2-inch l	ayer of	humus at th	e surface.	