WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/06/14		
Applicant:		Enbridge			_					County: State:	Marshall		
	Investigators: KRG/MRK			Subregion (MLRA or LRR): MLRA 56							MN		
Soil Unit:	155A						I Classification:	PSS1B		1	455 45 00 4		
Landform:	Dip		1 1 10		Local Relief		0.4.4			Sample Point	w-155n45w20-a1		
Slope (%):	0 - 2%		Latitude: 48.			-96.471		Datum:					
	-	nditions on the site						☑ Yes	□ No	Section:			
Are Vegetation		□, or Hydrology	•	•		Are	e normal circun ☑ Yes	□ No	esent?	Township:	Dire		
Are Vegetation		□, or Hydrology	Haturally p	robiemance				□ I N O		Range:	Dir:		
			Yes					Hydric Soi	ls Present?	Voc			
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes						nt Within A Wetland? Yes			
Remarks:					ninated by wi	illows and	d quaking asne				plex which also includes		
Tromano.		rsh and wet mead		imanity don	iniated by Wi	illowo ari	a qualing dopo	n oapiingo.	it is part or	a larger com	piox willori albo illoradoc	, u	
HYDROLOG		on and wot mode.	ow.										
		icators (Check all	I that annly:	Minimum of	one primary	or two s	econdary requi	red)•					
Primary	•	icators (Check an	i triat apply,	Will ill Harri Or	one primary	OI TWO 3	econdary requi	eu).	Secondary:				
	A1 - Surface \	Water			□ B11 - Salt	Crust				B6 - Surface S	Soil Cracks		
	A2 - High Wa				□ B13 - Aqua						Vegetated Concave Surface	Э	
	A3 - Saturatio				□ C1 - Hydro					B10 - Drainag		oto (tillod)	
	B1 - Water Mar B2 - Sedimen										C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows		
	B3 - Drift Dep	•					educed Iron	rtooto (not tiii	ì	•	n Visible on Aerial Imagery		
	B4 - Algal Ma	t or Crust			□ C7 - Thin I		ace		✓	D2 - Geomorp	phic Position		
	B5 - Iron Dep				□ Other (Exp	olain)				D5 - FAC-Neu			
	B9 - Water-St	n Visible on Aerial Im	nagery							D7 - Frost-He	aved Hummocks (LRR F)		
"	D3 - Water-O	anca Leaves											
Field Obser	vations:												
Surface Wat	er Present?	Yes	Dep	oth:	(in.)						.,		
Water Table		Yes □	Der		(in.)			Wetland F	lydrology l	Present?	Υ		
Saturation P	rocont?		•										
Saturation	resent?	Yes □	Dep	oth:	(in.)								
			<u> </u>		` ` ′	pections).	if available:						
Describe Rec	orded Data (s	stream gauge, moni	itoring well, a	erial photos,	previous insp	,		on.					
	orded Data (s		itoring well, a	erial photos,	previous insp	,		on.					
Describe Rec	orded Data (s	stream gauge, moni	itoring well, a	erial photos,	previous insp	,		on.					
Describe Rec Remarks: SOILS Profile Descri	orded Data (s Hydrology is	stream gauge, moni s indicated by the of be to the depth ne	itoring well, a	erial photos, of hydrophyt	previous inspic vegetation	and ged	omorphic position	dicators.)					
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Describe Rec Remarks: SOILS Profile Descri	orded Data (s Hydrology is	stream gauge, moni s indicated by the of be to the depth ne etion, RM=Reduced Ma	itoring well, a	erial photos, of hydrophyt	previous inspic vegetation	onfirm th	omorphic position te absence of in Fore Lining, M=Matr	dicators.)					
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer	orded Data (s Hydrology is	stream gauge, monics indicated by the object to the depth neetion, RM=Reduced Matrix	itoring well, a	erial photos, of hydrophyt cument the ir	previous inspice vegetation and Grains; Local	onfirm thation: PL=P	es	idicators.)	Toytura		Domoska		
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, a	erial photos, of hydrophyt cument the ir red/Coated Sai	previous inspic vegetation	onfirm th	omorphic position te absence of in Fore Lining, M=Matr	dicators.)	Texture		Remarks		
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	iption (Description, D=Depl	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, a dominance deeded to doc latrix, CS=Cove	erial photos, of hydrophyt cument the ir red/Coated Sai	previous inspice vegetation and Grains; Local	onfirm thation: PL=P	es	idicators.)	SICL		Remarks		
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, a	erial photos, of hydrophyt cument the ir red/Coated Sai	previous inspice vegetation and Grains; Local	onfirm thation: PL=P	es	idicators.)			Remarks		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-155n45w20-a1			
VEGETATIO	` ` '	e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC:3(A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 4 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 10			
		0			FACW spp. $\frac{80}{}$ \times			
	rotal Cover		_		FAC spp. 30 $\times 3 = 90$			
Sanling/Shruh	Stratum (Plot size: 15 ft. radius)				FAC spp. 30			
1.	Salix discolor	35	Υ	FACW	UPL spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
2.		25	Y	FAC				
3.	Populus tremuloides	10	<u>'</u> N	FACW	Total 165 (A) 440 (B)			
4.	Populus balsamifera	5	N N	OBL	Total 165 (A) 440 (B)			
4. 5.	Salix petiolaris	5 5	N N	FACW	Provolence Index = P/A = 2.667			
	Salix eriocephala				Prevalence Index = B/A = 2.667			
6.	Cornus alba	5	N	FACU				
7.	Rosa blanda	5	N	FACU	I budos physic Manatation Indicators			
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	90	_		X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Rubus idaeus	40	Y	FACU				
2.	Rubus pubescens	25	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Eutrochium maculatum	5	N	OBL	present, unless disturbed or problematic.			
4.	Solidago gigantea	5	N	FAC	Definitions of Vegetation Strata:			
5.				·				
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.					height (DBH), regardless of height.			
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
10.	Total Cover =	75			Troody vines - an area, regimeness en aegan			
	Total Cover =	75						
\\\ \\\ \\ \\\ \\\	tratura (Dist size, 20 ft, redive)							
	tratum (Plot size: 30 ft. radius)							
1.								
2.					Hedge-bedie Verstellen Beere 12			
3.					Hydrophytic Vegetation Present?Y			
5.								
4.								
	Total Cover =							
Remarks:	Vegetation is dominated by willows and qual-	king aspen	saplings i	n a dense	shrub layer with raspberries beneath.			
Additional Remarks:								