## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/12/14
Applicant:		Enbridge								County:	Pennington
Investigators		MRK/BEH/RAJ			_Subregio	`	or LRR):	MLRA 56		State:	MN
Soil Unit:	I24A						Classification				
Landform:	Talf				ocal Relief:					Sample Point:	u-154n45w25-e1
Slope (%):	0 - 2%	Per di le	Latitude: 48.1		Longitude:			Datum:			
		onditions on the site			ar? (If no, exp				□ No	Section:	
Are Vegetation		□, or Hydrology	•	•		Are	normal circun	-	esent?	Township:	
Are Vegetation			□aturally pr	oblematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \	•		No		_				Is Present?		- (I IO - N -
Wetland Hyd			No	e Calabalana in a	. (		an a delivelle for at			t Within A We	etland? <b>No</b>
Remarks:	i ne upiana	sample point is loc	cated in a na	y fiela aomina	ated by smo	ootn bror	me, bira's-toot	trefoil and t	ali goldenro	a.	
HVDDOLOG	V										
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all	that apply; M	linimum of or	ne primary	or two se	econdary requi	red):			
<u>Primary:</u>	_				<b>-</b>				Secondary:		
□ A1 - Surface Water □ A2 - High Water Table					B11 - Salt ( B13 - Aqua					B6 - Surface S	
	A3 - Saturation				C1 - Hydro		e Odor			B10 - Drainage	Vegetated Concave Surface
	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Roots (tilled
	B2 - Sedimer	nt Deposits			C3 - Oxidiz	ed Rhizos	pheres on Living	Roots (not till	€ □	C8 - Crayfish E	Burrows
	B3 - Drift Dep				C4 - Prese						N Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin M		ace			D2 - Geomorpl D5 - FAC-Neut	
		on Visible on Aerial Im	nagery		Other (Exp	iaii i)					aved Hummocks (LRR F)
		tained Leaves							_		(=)
Field Observ	vations:										
Surface Wate	er Present?	Yes □	Dept	h:	(in.)			\A/a4lamal I		Dun a a sa 40	N.I.
Water Table	Present?	Yes □	•	h:	– (in.)			wetiand F	łydrology l	Present?	N
Saturation Pr	resent?	Yes □	Dept	h:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	stream gauge moni	itoring well as	erial photos, pr	evious insp	ections)	if available:				
	·					ections),	if available:				
Describe Reco	·	stream gauge, moni or secondary hydro				ections),	if available:				
Remarks:	·					ections),	if available:				
Remarks:	No primary		ological indic	ators were ob	oserved.			idicators.)			
Remarks:  SOILS Profile Descri	No primary	or secondary hydro	ological indic	ators were ob	oserved.	onfirm the	e absence of ir				
Remarks:  SOILS Profile Descri	No primary	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma	ological indic	ators were ob	oserved.	onfirm the	e absence of ir ore Lining, M=Mati				
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix	eeded to docu	ators were observed when the indicated Sand	oserved. icator or co Grains; Locat	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr	ix)			
Remarks:  SOILS Profile Descri	No primary	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma	ological indic	ators were of	oserved. icator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological hydro	eeded to docu	ument the indicated Sand	oserved. icator or co Grains; Locat	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr	ix)	Texture FSL		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to docu	ument the indicad/Coated Sand  Color (	oserved. icator or co Grains; Locat	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr	ix)			Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8	No primary iption (Descr	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1 3/1	eeded to docu atrix, CS=Covere	ument the indicated Sand  Color (	oserved. icator or co Grains; Locat	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr	ix)	FSL		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18	No primary iption (Description, D=Dep	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1 3/1	eeded to docu atrix, CS=Covere	ument the indicated Sand  Color (	oserved. icator or co Grains; Locat	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr	ix)	FSL SICL		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18 18-21	No primary iption (Description, D=Dep  Hue_10YR Hue_10YR Hue_10YR	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1 3/1 4/1	eeded to docu atrix, CS=Covered  % 100 100	cators were obtained the indicators were obtained.  Color (	icator or co Grains; Locat	Mottle	e absence of ir ore Lining, M=Matr	ix)	FSL SICL		Remarks
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n45w25-e1				
VEGETATIO	` ` '	re non-native	species.)						
Tree Stratum (	(Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u>Species Name</u>	76 COVEL	Dominani	<u>IIIu.Status</u>	Dominance rest Worksheet				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.					(7 ty				
4.					Total Number of Dominant Species Across All Strata: 3 (B)				
5.					Total Name of Bolimant oposios / totala.				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.					(742)				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 5				
	Total Cover =	- 0	FACW spp. $0   x 2 = 0$						
			<del></del>		FAC spp. $0   x   3 = 0$				
Sapling/Shrub Stratum (Plot size: 15 ft. radius)					FACU spp. 70 x 4 = 280				
1.					UPL spp. $\frac{45}{45}$ $\times 5 = \frac{225}{45}$				
2.									
3.					Total 120 (A) 510 (B)				
4.									
5.					Prevalence Index = B/A = <b>4.250</b>				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	=0			Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	45	Υ	UPL					
2.	Lotus corniculatus	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Solidago altissima	25	Υ	FACU	present, unless disturbed or problematic.				
4.	Symphyotrichum ericoides	10	N	FACU	Definitions of Vegetation Strata:				
5.	Phleum pratense	5	N	FACU					
6	Carex granularis	5	N	OBL	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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.					Nag a Ng Allungadu vinas na gardlass of haiseld				
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	120	_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.					Hydrophytic Vocatation Present?				
3.					Hydrophytic Vegetation Present?N				
5. 4.									
4.	Total Cover =	= 0							
Pomarke:			o bird's fo	oot trofoil (	and tall goldenrod				
Remarks: The upland sample point is dominated by smooth brome, bird's-foot trefoil and tall goldenrod.									
Additional F	kemarks:								
1									