## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/08/14	
Applicant:		Enbridge				_					County:	Pennington	
Investigators		NTT/BEH				Subregio	`	or LRR):	MLRA 56		State:	MN	
Soil Unit:	150A							I Classification:	:		1	450 40 00	
Landform:	Dip		47	077005		al Relief:		E40			Sample Point	w-152n43w23-a1	1
Slope (%):	0 - 2%		Latitude: 47.			Longitude:			Datum:				
		nditions on the sit				! (If no, exp			☑ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•	•			Ale	e normal circun ☑ Yes	nstances pre □ No	esent?	Township:	Dire	
Are Vegetation		□, or Hydrology	Haturally p	robiemanc	· !				□ 1 <b>10</b>		Range:	Dir:	
Hydrophytic '			Yes						Hydric Soi	Is Present?	Voc		
Wetland Hyd	_		Yes								nt Within A W	etland? Yes	
Remarks:		d is a seasonally fl			a far	med hav	field and	I dominated by			it vvitimi / vv	cuana: 103	
rtemants.	The Welland	a is a seasonally if		iooatoa iii	a iai	med nay		dominated by	1401Wegiair	oniquoion.			
HYDROLOG	Υ												
		icators (Check all	I that annly:	Minimum c	of one	nrimary	or two s	econdary requi	red):				
Primary	•	icators (Check an	т пасарріу,	viii iii ii ii ii i	n One	primary	OI two s	econdary requi	i <del>c</del> u).	Secondary:			
<u> </u>	<u>·</u> A1 - Surface ՝	Water				311 - Salt (	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa			<ul><li>B13 - Aquatic Fauna</li></ul>							B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturation					C1 - Hydro					B10 - Drainage		D t - (t'lll)
	B1 - Water M B2 - Sedimen			☐ C2 - Dry Season Water Table ☐							C3 - Oxidized C8 - Crayfish I	Rhizospheres on Livin	g Roots (tilled)
	B3 - Drift Dep			□ C3 - Oxidized Rhizospheres on Living Roots (not till □ □ C4 - Presence of Reduced Iron □								n Visible on Aerial Ima	aerv
	B4 - Algal Ma			☐ C7 - Thin Muck Surface ☐ Other (Explain) ☐							D2 - Geomorp		
	B5 - Iron Dep										D5 - FAC-Neu		. – ,
		on Visible on Aerial Im tained Leaves	nagery								D7 - Frost-Hea	aved Hummocks (LRR	RF)
	by - water-s	lained Leaves											
Field Obser	vations:												
Surface Wat		Yes	Dep	ıth:		(in.)					_		
Water Table		Yes	Der			(in.)			Wetland F	lydrology l	Present?	Υ	
Saturation P						1 1						<del></del>	
- Catalation i		Yes □	Dep	itn:		(In.)							
			Dep		nro	(in.)	octions)	if available:					
Describe Rec	orded Data (s	stream gauge, mon	itoring well, a	erial photo		vious insp			n landagana	position or	ad bydrophyti	a vegetation	
	orded Data (s		itoring well, a	erial photo		vious insp			n landscape	position ar	nd hydrophyti	c vegetation.	
Describe Rec Remarks:	orded Data (s	stream gauge, mon	itoring well, a	erial photo		vious insp			n landscape	position ar	nd hydrophyti	c vegetation.	
Describe Rec Remarks:	orded Data (s	stream gauge, mon wetland hydrology	itoring well, a	erial photo resent. W	etland	vious insp	gy is ass	sumed based o	·	position ar	nd hydrophyti	c vegetation.	
Describe Rec Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descr	stream gauge, mon	itoring well, a	erial photosoresent. W	etland	vious insp	gy is ass	sumed based o	ndicators.)	position ar	nd hydrophyti	c vegetation.	
Describe Rec Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descr	stream gauge, monwetland hydrology be to the depth neetion, RM=Reduced M	itoring well, a	erial photosoresent. W	etland	vious insp	gy is assonition: PL=P	e absence of ir	ndicators.)	position ar	nd hydrophyti	c vegetation.	
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Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	orded Data (s  No primary  iption (Description, D=Depl	wetland hydrology be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	eeded to doo	erial photosoresent. Woument the	etland	vious insp d hydrolog ator or co rains; Loca	gy is assonition: PL=P	e absence of ir	ndicators.)	Texture	nd hydrophyti	c vegetation.  Remarks	
Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6	iption (Descrintration, D=Depl	wetland hydrology be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	eeded to docatorix, CS=Cove	erial photosoresent. Woundered/Coated S	indic	vious insp d hydrolog ator or co rains; Loca	gy is assonfirm the	e absence of ir ore Lining, M=Matr	ndicators.)	Texture FSL	nd hydrophyti		
Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-6 6-10	iption (Descrintration, D=Depl	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  3/2	eeded to doo latrix, CS=Cove	erial photosoresent. Woresent. Woresent. Woresent. Workston Workst	indicand G	vious insponential hydrological hydrological ator or contains; Locar floist)	onfirm th	e absence of in ore Lining, M=Matres  ES  Type	ndicators.) rix) Location	Texture FSL FSL	nd hydrophyti		
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Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6 6-10 10-17 17-24  NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation)  Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  3/2  5/2  8/2  Indicators (chain)	eeded to doo latrix, CS=Cove	erial photosoresent. Woresent. Wores	indicand G  lor (M  OYR  OYR  OYR  ody Repoped N	vious insponential hydrological	gy is associated assoc	e absence of in ore Lining, M=Matr	Location  M M	Texture FSL C C Indicators f A9 - 1 cm M A16 - Coast	or Problemation	Remarks  c Soils <sup>1</sup> (LRR F, G, H)	
Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6 6-10 10-17 17-24  NRCS Hydr	iption (Descrintration, D=Deplementation, D=Depl	wetland hydrology be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/2 5/2 8/2 Indicators (chains)	eeded to doo latrix, CS=Cove	erial photosoresent. Woresent. Wores	indicand G  Ior (M  OYR  OYR  OYR  oped M  my Mu	vious insponential hydrological hydrological hydrological ator or contains; Local floist)  6/8  6/8  ot presential dox	gy is associated as a second structure of the second s	e absence of in ore Lining, M=Matr	Location  M M	Texture FSL C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	for Problemation (Inches) for Problemation (Inches) for Problemation (Inches) for Problematic (I	Remarks  c Soils <sup>1</sup> (LRR F, G, H)	73)
Describe Reconstruction Remarks:  SOILS Profile Descripor (Type: C=Concert)  Depth (In.) 0-6 6-10 10-17 17-24  NRCS Hydr	iption (Descrintration, D=Deplementation, D=Depl	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  3/2  5/2  8/2  Indicators (chain Sulfide Layers (LRR F)	eeded to doo latrix, CS=Cove	erial photosoresent. Woresent. Wores	indicand G  Ior (M  OYR  OYR  OYR  OYR  Mare not only Report M  my Globeted	d hydrologicator or corains; Locardioist)  6/8 6/8  ot presendox Matrix Jucky Mineraleyed Matrix Matrix	gy is associated as a second structure of the second s	e absence of in ore Lining, M=Matr	Location  M M	Texture FSL C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	For Problemation  Suck (LRR I, J)  Prairie Redox  Surface (LRR G)  Plains Depression  Seed Vertic	Remarks  c Soils <sup>1</sup> (LRR F, G, H)	73)
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Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6 6-10 10-17 17-24  NRCS Hydr	iption (Descrintration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	wetland hydrology be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  3/2  5/2  8/2  Indicators (chain chain ch	itoring well, a principle indicators provided to document in the second second in the second second in the second	erial photosoresent. Woresent. Wores	indicand G  Ior (M  OYR  OYR  OYR  OYR  Oyr  Mare not  ody Re oped M  my Gl  oleted  lox Da  oleted  lox De	d hydrologicator or corains; Locardins; Loca	montion: PL=P  Mottl  %  4  10  t):	e absence of in ore Lining, M=Matrees  Type  C C	Location  M  M	Texture FSL C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	for Problemation  Juck (LRR I, J)  Prairie Redox  Jurface (LRR G)  Plains Depression  Plains Depression  Plains Material	Remarks  c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72,	73)
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	: L3R				Sample Point: w-152n43w23-a1			
VEGETATIO	• • • • • • • • • • • • • • • • • • • •	re non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 30 × 1 - 30			
10.	 Total Cover =	0			OBL spp. $\frac{30}{0}$ $\frac{1}{0}$ $\frac{30}{0}$ $\frac{30}{0}$ $\frac{30}{0}$ $\frac{30}{0}$			
	Total Gover =	·	FAC spp. 40 × 3 = 420					
Conling/Chrub	Ctratum (Diat aiza, 15 ft radius)				FAC spp. 40			
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{10}{2}$ $\times$ $4 = \frac{40}{2}$			
1.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
2.					T-1-1 00 (A)			
3.					Total <u>80</u> (A) <u>190</u> (B)			
4.								
5.					Prevalence Index = B/A = 2.375			
6.								
7.								
8.		ı			Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	 Total Cover =	0			X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Potentilla norvegica	40	Υ	FAC				
2.	Rorippa palustris	25	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Artemisia biennis	10	<u>.</u> N	FACU	present, unless disturbed or problematic.			
4.	Lindernia dubia	5	N	OBL	Definitions of Vegetation Strata:			
5.	Lindernia dubia		11	ODL	Definitions of Vegetation Strata.			
					Trop			
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7.					neight (DDH), regardless of height.			
8.					O II Was developed to be a three O in DDII as a small case of height			
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.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	80						
	7 5 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5		_					
Woody Vine St	tratum (Plot size: 30 ft. radius)							
1.	tracam (Flot 6/26: 66 ft. radias)							
2.								
3.					Hydrophytic Vegetation Present?			
5.					Trydrophytic vegetation Fresent:			
4.								
4.	Total Cover							
Total Cover = 0  Remarks: The wetland vegetation is dominated by Norwegian cinquefoil and bog yellowcress.								
Remarks:	The wetland vegetation is dominated by Nor	wegian cine	quetoil and	d bog yello	owcress.			
Additional F	Remarks:							