## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/08/14
Applicant:	Enbridge									County:	Pennington
Investigators	L. L.			Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	150A						Classification	:		_	450 40 44 44
Landform:	Dip		47.0		cal Relief:		470			Sample Point:	w-152n43w14-d1
Slope (%):	0 - 2%	عاد و ما دو و موانا	Latitude: 47.9		Longitude:			Datum:			
		nditions on the site			If? (If no, exp				□ No	Section:	
Are Vegetation		□, or Hydrology				Are	normal circun		esent?	Township:	
Are Vegetation		□, or Hydrology	Daturally pro	blematic?			Yes	□ No		Range:	Dir:
SUMMARY C									L D	V	
Hydrophytic \	_		Yes						ls Present?		(I. 10. <b>V</b>
Wetland Hyd			Yes				1 1 1 1 1			t Within A We	etland? <b>Yes</b>
Remarks:	The wetland	l is a seasonally fl	ooded basin l	ocated in a fa	rmed hayl	field and	dominated by	Norwegian (	cinquetoil.		
	-										
HYDROLOG'	Y										
Wetland Hy	drology Ind	icators (Check all	I that apply; M	inimum of on	e primary	or two se	econdary requi	red):			
Primary:	<u>.</u>	•						,	Secondary:		
	A1 - Surface				B11 - Salt (					B6 - Surface S	
	A2 - High Wa				B13 - Aqua						/egetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water Marker Marker B2 - Sedimen				C2 - Dry Se		ter Table spheres on Living	Roots (not till	€ □	C8 - Crayfish E	Rhizospheres on Living Roots (tilled
	B3 - Drift Dep	•			C4 - Prese			1700ts (Hot till	, .	•	Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M				<u> </u>	D2 - Geomorpi	
_	B5 - Iron Dep			_	Other (Exp				✓	D5 - FAC-Neut	
	B7 - Inundation	n Visible on Aerial Im	nagery		` '	,				D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	vations:										
Surface Wate	er Present?	Yes □	Depth	:	(in.)			Wetlend L	lvalga la ave l	Dracant?	V
Water Table	Present?	Yes □	Depth	:	(in.)			wetiand F	lydrology l	Present?	Υ
Saturation Pr	resent?	Yes □	Donth		): \						<del></del>
Catalation		162	Depth	1.	(in.)						
			<u> </u>			octions)	if available:				
Describe Rec	orded Data (s	tream gauge, moni	itoring well, ae	rial photos, pre	evious insp				no cition ou	ad las salva a las 45	
	orded Data (s		itoring well, ae	rial photos, pre	evious insp			n landscape	position ar	nd hydrophytic	vegetation.
Describe Reco	orded Data (s	tream gauge, moni	itoring well, ae	rial photos, pre	evious insp			n landscape	position ar	nd hydrophytic	c vegetation.
Describe Reco	orded Data (s	stream gauge, moni wetland hydrology	itoring well, ae indicators pre	rial photos, preesent. Wetlan	evious insp d hydrolog	gy is ass	umed based o	·	position ar	nd hydrophytic	c vegetation.
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Describe Record Remarks:  SOILS Profile Descrip (Type: C=Concerd)  Depth (In.)  0-8  8-14  14-18  18-22  NRCS Hydr	iption (Descriptration, D=Deplementation, D=Depl	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  6/2 4/3 5/2 8/2  Indicators (characters) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ark Surface ark Peat (LR) cky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, ae  r indicators pro eeded to docu atrix, CS=Covere  % 70 95 93 98 neck here if in	color (Notes and Color	d hydrologicator or contrains; Locate Moist)  5/6  4/6  5/8  6/8  ot present level Matrix leyed Matrix Matrix ark Surface Dark Surface pressions ains Depres	mottle  Mottle  30  5  7  2  t):	e absence of incre Lining, M=Matrore Lining, M=Matrores  Type C C C C RA 72, 73 of LRF	Location M M M M C C C C C C C C C C C C C C C	Texture FS FS C SICL  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	for Problematic luck (LRR I, J) Prairie Redox ( furface (LRR G) Plains Depression freed Vertic Parent Material Shallow Dark Stain in Remarks)	Remarks  Soils¹  LRR F, G, H)  ons (LRR H, outside MLRA 72, 73)  urface
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	: L3R				Sample Point: w-152n43w14-d1
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.					(A/B)
					Dravalance Index Werkshoot
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. <u>25</u> x 1 = <u>25</u>
	Total Cover =	=0	FACW spp. $10$ $\times$ $2 = 20$		
					FAC spp. $\frac{45}{}$ $\times 3 = \frac{135}{}$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\begin{array}{c cccc} & 10 & x & 4 = & 40 \\ & UPL spp. & 0 & x & 5 = & 0 \\ \end{array}$
1.					UPL spp. $0   x   5 = 0$
2.					
3.					Total 90 (A) 220 (B)
4.					
5.					Prevalence Index = B/A = 2.444
6.					Trevalence mack = B/A = 2.777
7.					Undrankatia Vanatatian Indiaatana
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	= <u> </u>			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Potentilla norvegica	45	Υ	FAC	
2.	Rorippa palustris	25	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.			N	FACU	present, unless disturbed or problematic.
	Artemisia biennis	10			
4.	Eleocharis compressa	10	N	FACW	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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					110, 5 = 1
14.					All manifesting and the state of the state o
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	90			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?
5.					inyarophytic vegetation i resent:
4.	T.1.10				
	Total Cover =				
Remarks:	The wetland vegetation is dominated by Nor	rwegian cin	quefoil and	d bog yelld	owcress.
Additional F	Remarks:				
Additional	veinai v.				