WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14
Applicant:		Enbridge								County:	Pennington
Investigators:		RAJ/BJC			Subregior	า (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I69A NWI Classification:]	
Landform:	Dip				al Relief:					Sample Point	w-154n44w34-d1
Slope (%):	0 - 2%	Latitude			Longitude:			Datum:			
		nditions on the site typical			r? (If no, exp				□ No	Section:	
Are Vegetation	•	☑, or Hydrology □signif	•			Are	e normal circum	stances pre	esent?	Township:	
Are Vegetation			Illy prol	olematic?			□ Yes	☑ No		Range:	Dir:
SUMMARY O											
Hydrophytic \	egetation Pr	esent?	Yes					Hydric Soil	s Present?	Yes	
Wetland Hydrology Present? Yes				5					nt Within A W	etland? Yes	
Remarks:											
Remarks: A seasonally-flooded swale in a cultivated field planted to wheat. The wheat has been harvested and the field has been disked. The vegetation is disturbed from tillage and herbicide use. The soils are disturbed from tillage. Nevertheless, all three parameters of wetland conditions are met. This community is part of a wetland complex that includes Willow-Carr outside of the plowed field.											
	•										
HYDROLOGY											
	•	cators (Check all that ap	ply; Mir	nimum of one	e primary of	or two se	econdary require	ed):			
<u>Primary:</u>						_			Secondary:		
	A1 - Surface V			B11 - Salt (B6 - Surface S		
	A2 - High Wat A3 - Saturation				B13 - Aqua C1 - Hydro				☑	B8 - Sparsely B10 - Drainage	Vegetated Concave Surface
	B1 - Water Ma				C1 - Hydro(C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sediment						spheres on Living I	Roots (not tille	• -	C8 - Crayfish I	
	B3 - Drift Depo	•			C4 - Preser			`		C9 - Saturation	n Visible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin M		ace		✓	D2 - Geomorp	
	B5 - Iron Depo				Other (Expl	ain)				D5 - FAC-Neu	
	B7 - Inundation B9 - Water-Sta	n Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	by - water-st	allied Leaves									
Field Observ	rational										
Field Observ		_			(1)						
Surface Water		Yes	Depth:		(in.)			Wetland H	lydrology	Present?	Υ
Water Table		Yes	Depth:		(in.)				, ,,		_
Saturation Present? Yes Depth: (in.)											
			- op		()						
Describe Reco	orded Data (s	tream gauge, monitoring w				ections),	if available:				
	<u>`</u>	tream gauge, monitoring w	ell, aeri	al photos, pre	vious insp			growing in	it (when co	ompared with	the appearance of the disked
Describe Reco	The wetland	tream gauge, monitoring warea has been disked, b	ell, aeri ut it is a	al photos, pre	vious insp			growing in	it (when co	mpared with	the appearance of the disked
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-4 4-8 4-8 8-18 NRCS Hydri	The wetland sod in the upption (Descriptration, D=Depleter Language) Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Epit A3 - Black History A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da S1 - Sandy Muc S2 - 2.5 cm Muc S3 - 5 cm Muc	tream gauge, monitoring warea has been disked, be bland). Indicators of wetland be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 6/2 7/1 6/1 Indicators (check here a Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Sur	ell, aeri ut it is a and hyd docum Covered % 100 30 40 85 e if ind	al photos, pre apparent that drology are p nent the indic /Coated Sand G Color (N Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	the area resent. ator or co rains; Locat Moist) 5/6 5/6 5/6 5/6 ot present edox Matrix ucky Mineral leyed Matrix Matrix ark Surface pressions	mad spanning the ion: PL=Point Mottle % 20 10 15 iiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	e absence of incore Lining, M=Matrix es Type C C C	Location M M M	Texture C C C C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	with scattered pe calcic concentration calcic concentration for Problemation luck (LRR I, J) Prairie Redox curface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks) mydrophytic vegeta	Remarks bbles on c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-4 4-8 4-8 8-18 NRCS Hydri	The wetland sod in the uption (Descriptration, D=Depleter Hue_10YR Hue_2.5Y	tream gauge, monitoring warea has been disked, be bland). Indicators of wetland be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 6/2 7/1 6/1 Indicators (check here a Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Sur	ell, aeri ut it is a and hyd docum Covered % 100 30 40 85 e if ind	al photos, pre apparent that drology are p nent the indic /Coated Sand G Color (N Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	the area resent. ator or co rains; Locat Moist) 5/6 5/6 5/6 5/6 ot present edox Matrix ucky Mineral leyed Matrix Matrix ark Surface pressions	mad spanning the ion: PL=Point Mottle % 20 10 15 iiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	e absence of incore Lining, M=Matrix es Type C C C	Location M M M	Texture C C C C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	with scattered pe calcic concentration calcic concentration luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	Remarks bbles on c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w34-d1
					·
VEGETATION		e 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:1(A)
3.					
4.					Total Number of Dominant Species Across All Strata:1 (B)
5.					-
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.	<u> </u>				
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cover —				OBL spp. 25
	Total Cover =	0	_	I	FACW spp. $0 \times 2 = 0$
2 - 15 /Ohmulh (01 1 1 (D) 1 1 1 2 4 5 6 1 2 2 2 2 2 2				FAC spp. $\frac{0}{\sqrt{3}}$ \times $\frac{3}{\sqrt{3}}$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 X 4 = 20
1. 2.					UPL spp 5
3.	_				- Total 25 (A) 70 (B)
3. 4.					Total 35 (A) (B)
<u> </u>					Provolonos Indox - P/A - 2.000
6.					Prevalence Index = B/A = 2.000
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	-				X Dominance Test is > 50%
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
			_	I	Morphological Adaptations (Explain) *
Herh Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Beckmannia syzigachne	25	Υ	OBL	TTODICTITITY OF THE CONTROL OF
2.	Artemisia biennis	5	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Triticum aestivum	5	N	NI	present, unless disturbed or problematic.
4.	This can describe				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.				_	1
9.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					1
11.					1
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					1
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	35			1
1	•		_	I	· ·
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:	A seasonally-flooded basin dominated by slo	ough grass	. Hydroph	nytic veget	tation is present. Scattered throughout the wetland area are hunks of disked soil
				-	aris acicularis, which may have been abundant before disking.
				<u>-</u>	
Additional R	Remarks:				
710101111111111111111111111111111111111					
1					· ·
1					
1					