WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/26/14			
Applicant: Enbridge										County:	Kittson			
Investigators: EAB/RAJ				Subregion (MLRA or LRR): MLRA 56						State:	MN			
Soil Unit:	1132A						I Classification:				170 10 01 1			
Landform:	Depression		10 F		cal Relief:		000	Deture		Sample Point:	w-159n48w31-e1			
Slope (%):	0 - 2%	nditions on the site	Latitude: 48.5		Longitude:			Datum:	⊡ No	Quality of				
					al ? (If no, exp		e normal circun			Section:				
Are Vegetation		or Hydrology or Hydrology or Hydrology		y disturbed?		Alt	e normai circuit ⊡ Yes		esent	Township:	Dire			
				Splematic?			E 163			Range:	Dir:			
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes														
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes Yes			Is This Sampling Poir				etland? Yes			
Remarks:				eat field. Areas of oak-leaf goosef			foot and bare soil cover the wetland			The area was	planted this year, but the crop			
rtemanto.	Remarks: The wetland is a basin located within a wheat field. Areas of oak-leaf goosefoot and bare soil cover the wetland. The area was planted this year, but the crop has failed, and strong hydric soil and wetland hydrology indicators were observed.													
HYDROLOG				na nyarology	indicatore	More es	001100							
								l)						
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):														
Primary:	A1 - Surface	Water		П	□ B11 - Salt Crust □ B6 - Surface Soil Cracks									
2	A2 - High Wa				B13 - Aqua		I				/egetated Concave Surface			
4	A3 - Saturatio	n			C1 - Hydro	gen Sulfid	le Odor			B10 - Drainage	Patterns			
	B1 - Water M				C2 - Dry Se			Desta (set til			Rhizospheres on Living Roots (tilled)			
	B2 - Sedimen B3 - Drift Dep				C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not til		C8 - Crayfish E	urrows Visible on Aerial Imagery			
- -	B4 - Algal Ma			Ē	C7 - Thin N					D2 - Geomorpl				
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neut				
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	ved Hummocks (LRR F)			
	B9 - Water-S	tained Leaves												
Field Observ	votional													
		V	Denti		(in)									
Surface Wate Water Table			Dept		(in.)			Wetland H	lydrology	Present?	Υ			
		_	Dept		(in.)									
				······	Saturation Present? Yes Depth: 0 (in.)									
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:														
Remarks:	A high wate							the unvege	tated pools	of surface wa	ter present in other areas of the			
Remarks:								the unvege	tated pools	of surface wa	ter present in other areas of the			
Remarks: SOILS	A high wate wetland.	r table was observ	ved at a depth	of 8 inches.	Recent rai	ins have	contributed to	-	tated pools	of surface wa	ter present in other areas of the			
Remarks: SOILS Profile Descri	A high wate wetland. ption (Descr	r table was observ be to the depth ne	ved at a depth	of 8 inches.	Recent rai	ins have	e absence of ir	dicators.)	tated pools	of surface wa	ter present in other areas of the			
Remarks: SOILS Profile Descri	A high wate wetland. ption (Descr	r table was observ	ved at a depth	of 8 inches.	Recent rai	ins have	e absence of ir	dicators.)	tated pools	of surface wa	ter present in other areas of the			
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-159n48w31-e1				
VEGETATIO		e non-native	e species.)						
Tree Stratum (Plot size: 30 ft. radius)	°(0	Deminent	la d Otatua	Dominance Test Worksheet				
1.	Species Name	% Cover	Dominant	Ind.Status					
2.	<u> </u>				Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)				
3.									
4.	<u> </u> _				Total Number of Dominant Species Across All Strata: 2 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 1 x 1 = 1				
	Total Cover =	0			$FACW \text{ spp.} \qquad 0 \qquad \text{ x } 2 = \qquad 0$				
					FAC spp. 10 $x 3 = 30$				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $6 \times 4 = 24$				
1.					UPL spp. 0 $x 5 = 0$				
2.									
3.					Total 17 (A) 55 (B)				
4.									
5.					Prevalence Index = B/A = 3.235				
6.									
7.	<u> </u>								
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.	Chenopodium glaucum	10	Y	FAC					
2.	Artemisia annua	5	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Veronica anagallis-aquatica	1	Ν	OBL	present, unless disturbed or problematic.				
4.	Amaranthus retroflexus	1	Ν	FACU	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.				
	Total Cover =	17	_						
	ratum (Plot size: 30 ft. radius)								
1.	1								
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks: The vegetation is significantly disturbed by attempts at farming. A few Veronica individuals were observed.									
Additional Remarks:									
R									