WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/25/14
Applicant:	Enbridge										County:	Marshall
Investigators					Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	I707A NWI Classification:										w 454p45w2 e2	
Landform: Slope (%):	Depression 3 - 7% Latitude: 48				Local Relief: CC 8.183629 Longitude: -96.397303				Datum		Sample Point	w-154n45w2-e2
		nditions on the si				-			Datum	□ No	Section:	
Are Vegetatio		□, or Hydrology			disturbed?			e normal circur			Township:	
Are Vegetatio		□, or Hydrology	•				7.410	☑ Yes		000111.	Range:	Dir:
SUMMARY C			,	,							, ion ig et	
Hydrophytic V	Vegetation P	resent?	Y	/es					Hydric Soi	Is Present?	Yes	
Wetland Hyd	Irology Prese	nt?	Y	/es					Is This Sa	mpling Poin	it Within A W	etland? Yes
Remarks: The wetland is a seasonally-flooded basin located within a soybean field with little vegetation growing within the wetland. The only vegetation throughout the wetland is sparse individual narrow-leaved cattails.												
HYDROLOG		paroo marriadari										
		i cators (Check al	ll that annly	v: Min	vimum of on	o primary	or two se	econdary requi	red)•			
Primary:	•••	icators (Check a	in that apply	y, iviii		ephnary	OF TWO SE	econdary requi	reu):	Secondary:		
	A1 - Surface	Water				B11 - Salt	Crust			<u>eeeenaary.</u> ☑	B6 - Surface S	Soil Cracks
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio B1 - Water M					C1 - Hydro C2 - Dry S					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimen							spheres on Living	Roots (not til	le 🗆	C8 - Crayfish I	
	B3 - Drift Dep	osits				C4 - Prese	ence of Re	duced Iron	(C9 - Saturation	n Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M		ace			D2 - Geomorp	
	B5 - Iron Dep B7 - Inundatio	osits In Visible on Aerial Ir	nagery			Other (Exp	biain)				D5 - FAC-Neu D7 - Frost-He	aved Hummocks (LRR F)
	B9 - Water-Si		nagery									
Field Observ	vations:											
Surface Wate	er Present?	Yes 🗆	D	Depth:		(in.)			Wetland H	- - - - - - - - - - - - - - - - - - -	Present?	Y
Water Table		Yes 🗆		Depth:		(in.)				iyurology i	resent:	
Saturation Pr	resent?	Yes 🗆	D	Depth:		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	stream gauge, mor	nitoring well	I, aeria	al photos, pre	evious insp	pections),	, if available:				
Describe Reco Remarks:		stream gauge, mor <mark>hydrology indicat</mark> e	-			-	-		il cracking a	Ind landsca	pe position.	
Remarks:			-			-	-		il cracking a	Ind landsca	pe position.	
Remarks: SOILS	No primary	hydrology indicate	ors are pre	esent.	Wetland hy	drology is	assume	ed based on so		ind landsca	pe position.	
Remarks: SOILS Profile Descri	No primary	hydrology indicate	ors are pre	esent. locum	Wetland hy	drology is	onfirm the	ed based on so e absence of ir	ndicators.)	Ind landsca	pe position.	
Remarks: SOILS Profile Descri	No primary	hydrology indicate	ors are pre	esent. locum	Wetland hy	drology is	onfirm the	ed based on so e absence of ir	ndicators.)	Ind landsca	pe position.	
Remarks: SOILS Profile Descri	No primary	hydrology indicate	ors are pre	esent. locum	Wetland hy	drology is	onfirm the	ed based on so e absence of ir ore Lining, M=Mat	ndicators.)	Ind landsca	pe position.	
Remarks: SOILS Profile Descri	No primary	hydrology indicate be to the depth ne etion, RM=Reduced M	ors are pre eeded to de Matrix, CS=Co	esent. locum	Wetland hy	drology is cator or co Grains; Loca	onfirm the	ed based on so e absence of ir ore Lining, M=Mat	ndicators.)	Texture	pe position.	Remarks
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R			Sample Point: w-154n45w2-e2	•
VEGETATIO		re non-native species.			
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	<u>% Cover</u> Domina	Ind.Status	S 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.					
8.				Prevalence Index Worksheet	
9.				Total % Cover of: Multiply by:	
10.				OBL spp. 15 X 1 = 15	
	Total Cover =	0		FACW spp. 0 $x 2 = 0$	
				FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.0x4 =0	
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)			FACU spp. 0 $x 4 = 0$	
1.				$UPL spp. \qquad 0 \qquad x \ 5 = 0$	
2.					
3.					
4.					
5.				Prevalence Index = $B/A = 1.000$	
6.					
7.					
8.				Hydrophytic Vegetation Indicators:	
9.				Rapid Test for Hydrophytic Vegetation	
10.				X Dominance Test is > 50%	
10.	 Total Cover =	0			
		=0			
				Morphological Adaptations (Explain) *	
Herb Stratum ((Plot size: 5 ft. radius)			Problem Hydrophytic Vegetation (Explain) *	
1.	Typha angustifolia	15 Y	OBL		
2.				* Indicators of hydric soil and wetland hydrology must be	
3.				present, unless disturbed or problematic.	
4.				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.				7	
14.				7	
15.				Woody Vines - All woody vines, regardless of height.	
	Total Cover =	= 15			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1					
2.	1				
3.				Hydrophytic Vegetation Present? Y	
5.	1				
4.					
4.	Total Cover =	= 0			
Remarks:	The majority of the ground layer is bare soil		e amounto	of berbicide-treated parrow-loaf cattail	
Nemarks.	The majority of the ground layer is bare soll	besides very spars	se amounts (
Additional F	Remarks:				
I					