WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	07/31/14	
Applicant:		Enbridge									County:	Marshall	
Investigators	:	NTT/KRG			S	Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I24A							Classification	· -				
Landform:	Depression					al Relief:					Sample Point:	w-155n46w2-b1	
Slope (%):	3 - 7%		_atitude: 48.				-96.522		Datum:		1		
		onditions on the site				? (If no, exp			Yes	□ No	Section:		
Are Vegetation			⊏significan	•			Are	e normal circun	-	esent?	Township:		
Are Vegetation			□aturally p	roblemati	c?			✓ Yes	□ No		Range:	Dir:	
SUMMARY C													
Hydrophytic \	•		Yes							Is Present?		11 12 W	
Wetland Hyd			Yes			112 1					t Within A We		
Remarks:	The wetlan	d is a fresh wet mea	idow locate	ed in a roa	idside (ditch and	domina	ted by Phalaris	arundinace	ea with a mi	x of hydrophy	tic plants.	
HYDROLOG'	Y												
Wetland Hy	drology Ind	licators (Check all t	hat apply;	Minimum	of one	primary	or two se	econdary requi	red):				
<u>Primary:</u>					_		_			Secondary:			
\Box	A1 - Surface			□ B11 - Salt Crust									
	A2 - High Wa A3 - Saturation					13 - Aqua	เนc Fauna gen Sulfid	o Odor		☐ B8 - Sparsely Vegetated Concave Surface			
	B1 - Water M										B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimer			□ C2 - Dry Season Water Table □ C3 - Oxidized Rhizospheres on Living Roots (not tille □ C4 - Presence of Reduced Iron □ C7 - Thin Muck Surface □							C8 - Crayfish E		nou)
	B3 - Drift Dep	•										Visible on Aerial Imagery	
	B4 - Algal Ma										D2 - Geomorpl		
	B5 - Iron Dep		a.a.m./			ther (Exp	lain)				D5 - FAC-Neut		
		on Visible on Aerial Ima Itained Leaves	gery								D7 - Frost-nea	ved Hummocks (LRR F)	
	Do Water C	tailled Ecaves											
Field Observ	vations:												
Surface Wate		Yes ☑	Dep	th: 4		(in.)							
Water Table		Yes		oth:	<u> </u>	(in.)			Wetland F	Hydrology	Present?	Υ	
Saturation Pr		Yes \square	Dep			(in.)							
		103	Dep			(111.)							
							\	1					
	<u>`</u>	stream gauge, monito			•	·	ections),	if available:					
Remarks:	<u>`</u>	stream gauge, monitod d has roughly four in			•	·	ections),	if available:					
Remarks:	<u>`</u>				•	·	ections),	if available:					
Remarks:	The wetlan	d has roughly four in	nches of su	rface wat	er thro	ughout.			dicators \				
Remarks: SOILS Profile Descri	The wetlan	d has roughly four in	nches of su	rface wat	er throu	ughout.	onfirm the	e absence of ir					
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Remarks: SOILS Profile Descri (Type: C=Concer	The wetlan	d has roughly four in tibe to the depth nee letion, RM=Reduced Mate	eded to doc rix, CS=Cove	rface wat	er throuse indica	ughout.	onfirm the	e absence of ir ore Lining, M=Matr	ix)	Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetlan Iption (Description, D=Dep Tic Soil Field A1- Histosol A2 - Histic Ep	d has roughly four in the depth nee letion, RM=Reduced Matrix Color (Moist) I Indicators (che	eded to doc rix, CS=Cove	rface water the red/Coated ndicators	er through the indication of t	ator or coains; Locat	Mottle %	e absence of incre Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils ¹	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w2-b1
-					· •
VEGETATIO	N (Species identified in all uppercase are	non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	% 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.					ORI spp. 45 × 1 - 45
10.	Total Cover =	0			EACW spp. 55 × 2 = 110
	Total Gover = _	0	_		FAC spp
Conling/Chrub	Stratum (Diet aize: 15 ft radius)				OBL spp. 45
	Stratum (Plot size: 15 ft. radius)				FACU Spp. $\frac{5}{}$ \times $4 = \frac{20}{}$
1.					OPL spp.
2.					Tatal 405 (A)
3.					Total(A)(B)
4.					
5.	_				Prevalence Index = B/A = 1.667
6.	_				
7.					
8.					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.	Phalaris arundinacea	40	Υ	FACW	
2.	Typha angustifolia	30	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Rumex stenophyllus	15	<u>.</u> N	FACW	present, unless disturbed or problematic.
4.	Schoenoplectus tabernaemontani	10	N	OBL	Definitions of Vegetation Strata:
5.			N	OBL	Definitions of Vegetation Strata.
	Scirpus atrovirens	5			Troo
6	Lotus corniculatus	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					Height (DBH), regardless of Height.
8.					O II (O) I Washin lanta lasa than 2 in DDI I remardless of height
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 =	105			
	_		_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	(in the second of the second				
2.					
3.					Hydrophytic Vegetation Present?
5.					Trydrophytio vogotation i resent:
4.					
 -	Total Cover =	0			
Domorko			lingger on	d Typha a	nguatifalia
Remarks:	The wetland vegetation is dominated by Phala	ans arund	imacea an	u i ypna a	ngustiiona.
Additional F	Remarks:				