WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/22/14
Applicant:		Enbridge			_					County:	Marshall
Investigators					Subregion (MLRA or LRR): MLRA 56					State:	MN
Soil Unit:	1690A						Classification	:			
Landform:	Depression		40.0		cal Relief:		75.4			Sample Point:	w-155n45w28-k1
Slope (%):	3 - 7%		Latitude: 48.2			-96.4447		Datum:			
		nditions on the site			Ir? (If no, exp				□ No	Section:	
Are Vegetation		□, or Hydrology	•			Are	normal circun		esent?	Township:	D:
Are Vegetation		□, or Hydrology	Liaturally pro	bblematic?			Yes	□ No		Range:	Dir:
SUMMARY C			V					Lludria Cai	la Draggista	Vee	
Hydrophytic \	_		Yes						Is Present?		otlando Vas
Wetland Hyd			Yes		dominatos	h h (norro	w loof cottoil			t Within A We	etland? Yes
Remarks:	The welland	d is wet meadow lo	ocated on a ne	eid edge and i	Johnnaled	a by narrov	w-lear callair	and commo	n reed.		
	V										
HYDROLOG	Y										
Wetland Hy	drology Ind	i <mark>cators</mark> (Check all	I that apply; M	inimum of on	e primary	or two sec	condary requi	red):			
<u>Primary:</u>						_			Secondary:		
	A1 - Surface				B11 - Salt (B6 - Surface S	
	A2 - High Wa A3 - Saturatio				B13 - Aqua	gen Sulfide	Odor			B10 - Sparsely V	/egetated Concave Surface
	B1 - Water M					eason Wate					Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						heres on Living	Roots (not till	• -	C8 - Crayfish E	
	B3 - Drift Dep					nce of Redu					Visible on Aerial Imagery
	B4 - Algal Ma					/luck Surfac	ce		☑	D2 - Geomorpl	
	B5 - Iron Dep				Other (Exp	lain)			☑	D5 - FAC-Neut	
	B9 - Water-St	n Visible on Aerial Im	nagery							D7 - Frost-nea	ved Hummocks (LRR F)
	D9 - Water-O	allieu Leaves									
Field Observ	vations:										
Surface Water		Yes	Donth		(in)						
Water Table		Yes □ Yes □	Depth Depth		(in.) (in.)			Wetland F	lydrology F	Present?	Υ
			•		. ,						_
Saturation Present? Yes Depth: (in.)											
			<u> </u>								
	<u> </u>	stream gauge, mon	itoring well, ae	rial photos, pre	evious insp						
Describe Reco	<u> </u>		itoring well, ae	rial photos, pre	evious insp			ndscape pos	ition and hy	drophytic veg	getation.
Remarks:	<u> </u>	stream gauge, mon	itoring well, ae	rial photos, pre	evious insp			ndscape pos	ition and hy	rdrophytic veg	getation.
Remarks:	No primary	stream gauge, moni hydrology indicato	itoring well, ae ors are presen	rial photos, pre t. Wetland hy	evious insp drology is	assumed	l based on lar		ition and hy	drophytic veg	getation.
Remarks: SOILS Profile Descri	No primary	stream gauge, monicators hydrology indicators be to the depth ne	itoring well, ae ors are presen	rial photos, pret. Wetland hy	evious insp drology is cator or co	assumed on firm the	l based on lar absence of ir	ndicators.)	ition and hy	drophytic veg	jetation.
Remarks: SOILS Profile Descri	No primary	stream gauge, moni hydrology indicato	itoring well, ae ors are presen	rial photos, pret. Wetland hy	evious insp drology is cator or co	assumed on firm the	l based on lar absence of ir	ndicators.)	ition and hy	drophytic veg	getation.
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, ae ors are presenceded to doculatrix, CS=Covere	rial photos, pret. Wetland hy	evious insp drology is cator or co Grains; Local	assumed onfirm the	l based on lar absence of ir re Lining, M=Mati	ndicators.)	Texture	drophytic veg	getation. Remarks
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w28-k1
					•
VEGETATION		are non-native	e 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.					
8.]			Prevalence Index Worksheet
9.]			Total % Cover of: Multiply by:
10.]			OBL spp. 20
	Total Cover	= 0	FACW spp. 80 $x 2 = 160$		
					Total % Cover of: Multiply by: OBL spp. 20 X 1 = 20 FACW spp. 80 X 2 = 160 FAC spp. 0 X 3 = 0 FACU spp. 0 X 4 = 0 UPL spp. 0 X 5 = 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$
1.					UPL spp. $0 X 5 = 0$
2.]			
3.					Total 100 (A) 180 (B)
4.					
5.		<u> </u>			Prevalence Index = B/A = 1.800
6.]			
7.					
8.					Hydrophytic Vegetation Indicators:
9.		<u> </u>			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 (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phragmites australis	75	Υ	FACW	
2.	Typha angustifolia	15	N	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Persicaria amphibia	5	N	OBL	present, unless disturbed or problematic.
4.	Juncus dudleyi	5	N	FACW	Definitions of Vegetation Strata:
5.					
6		1			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.		1			height (DBH), regardless of height.
8.		1			
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.		1			Herb - All herbaceous (non-woody) plants, regardless of size.
13.		1			
14.					
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover	= 100			
	Total Cover				
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1	Atturn (Flot Size. 30 ft. radius)				
2.					
3.					Hydrophytic Vegetation Present? Y
5.					nyurophytic vegetation Fresents
4.	<u> </u>				
4.	Total Cover	= 0			
Domarka:					
Remarks:	The wetland is dominated by common reed	1.			
	_				
Additional R	lemarks:				