## WETLAND DETERMINATION DATA FORM Great Plains Region

											00/00/44
Project/Site:		L3R								Date:	08/22/14
Applicant:		Enbridge								County:	Marshall
Investigators	S: RAJ/BEH Subregion (MLRA or LRR): MLRA 56									State:	MN
Soil Unit:	IS7B NWI Classification:										
Landform:										Sample Poin	t: w-155n45w20-e1
Slope (%):		and Change and the set						Datum:			
Are climatic/	nyarologic co	onditions on the sit	te typical for th	is time of yea	a <b>r?</b> (If no, exp	1		☑ Yes	□ No	Section:	
Are Vegetati	on 🛛 Soi	I □, or Hydrology	csignificantly	disturbed?		Are	e normal circur	nstances pre	esent?	Township:	
Are Vegetati	on 🗆 Soi	I □, or Hydrology	aturally pro	blematic?			☑ Yes	□ No		Range:	Dir:
SUMMARY (			,							- Ger	
Hydrophytic	•		Yes		_				s Present?		
Wetland Hyc	drology Prese	ent?	Yes					Is This Sar	mpling Poin	t Within A W	/etland? Yes
Remarks:	The wetland	d is a wet meadov	v community in	a roadside o	ditch. All p	baramete	ers of wetland o	conditions ar	e met.		
HYDROLOG	Υ										
Wetland Hy	/droloav Ind	icators (Check al	ll that apply: Mi	nimum of or	e primarv	or two se	econdarv requi	red):			
Primary			in that apply, th		o princi y	01 110 0	eeenaary requi	100)	Secondary:		
	A1 - Surface	W/ater		п	B11 - Salt	Crust				B6 - Surface	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio				•						
					C1 - Hydro					B10 - Drainag	
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sedimer	•					spheres on Living	Roots (not till	€ 🛛	C8 - Crayfish	
	B3 - Drift Dep						educed Iron				on Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomor	
	B5 - Iron Dep				Other (Exp	olain)			$\checkmark$	D5 - FAC-Ne	utral Test
		on Visible on Aerial Ir	magery							D7 - Frost-He	aved Hummocks (LRR F)
		tained Leaves									· · ·
<b>Field Observ</b>											
Field Obser	vations:										
Surface Wat	er Present?	Yes 🗆	Depth	:	(in.)			Watland H	lydrology I	Dreeent?	V
Water Table	Present?	Yes 🗆	Depth		(in.)				lydrology l	resent?	Y
Saturation P		Yes D	Depth		- (in.)						
Saturation	iesent?		Depin	•	_ (111.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
		stream gauge, mor	morning won, acr	iai priotos, pr	evious insp	pections),	, if available:				
	•		-	<u> </u>	evious insp	pections),	, if available:				
Remarks:	•	of wetland hydrolog	-	<u> </u>	evious insp	pections),	, if available:				
Remarks:	•		-	<u> </u>	evious insp	pections),	, if available:				
Remarks: SOILS	Indicators c	of wetland hydrolog	gy are present.								
Remarks: SOILS Profile Descr	Indicators of iption (Descr	of wetland hydrolog	gy are present. eeded to docur	ment the indi	cator or co	onfirm th	e absence of ir				
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr	Indicators of iption (Descrintration, D=Depineration) (Descrintration, D=Depineration) (Descrintration, D=Depineration) (Descrintration) (Desc	ibe to the depth notes in the de	gy are present.	Color ( Color ( Color ( Color ( Color ( Color ( Color ( Color (	cator or co Grains; Loca Moist) Moist) not presen edox	onfirm th tion: PL=P Mottle	e absence of ir Pore Lining, M=Mati es Type	Location	Indicators f A9 - 1 cm M	uck (LRR I, J)	ic Soils <sup>1</sup>
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr	Indicators of iption (Descr ntration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep	ibe to the depth notetion, RM=Reduced M Matrix Color (Moist)	gy are present.	Color ( Color ( Color ( Color ( Color ( S5 - Sandy R S6 - Stripped	cator or co Grains; Loca Moist) Moist) not presen edox Matrix	onfirm th tion: PL=P Mottle %	e absence of ir Pore Lining, M=Mati es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox	i <u>c Soils<sup>1</sup></u> (LRR F, G, H)
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w20-e1				
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)						
Tree Stratum (	Plot size: 30 ft. radius)								
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 5 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>100.0%</b> (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. <u>53</u> x 1 = <u>53</u>				
	Total Cover =	0			FACW spp. $31$ x 2 = $62$				
	-		_		FAC spp. 15 $x 3 = 45$				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$				
1.	Salix interior	10	Y	FACW	UPL spp. 0 $x 5 = 0$				
2.		5	Y	FACW					
3.					Total <mark>99</mark> (A) <mark>160</mark> (B)				
4.									
5.					Prevalence Index = $B/A = 1.616$				
6.	J								
7.									
8.	<u></u>				Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	Total Cover =	15			$\frac{X}{X} = \frac{1}{2} \text{ Dominance rest is } 300\%$				
		10							
					Morphological Adaptations (Explain) *				
Herb Stratum (	Plot size: 5 ft. radius)	20	V		Problem Hydrophytic Vegetation (Explain) *				
1.	Scirpus cyperinus	30	•	OBL	* Indicators of budging call and watered budgets and the				
2.	Prunella vulgaris	15	Y V	FAC	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
3.	Carex pellita	15	I	OBL					
4.	Phalaris arundinacea	5	<u>N</u>	FACW	Definitions of Vegetation Strata:				
5.	Juncus torreyi	5	N	FACW					
6	Pedicularis lanceolata	5	<u>N</u>	OBL	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Carex granularis	2	N	OBL	height (DBH), regardless of height.				
8.	Symphyotrichum lanceolatum	2	N	FACW					
9.	Agrostis gigantea	2	N	FACW	<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.				
10.	Juncus dudleyi	2	N	FACW					
11.	Liparis loeselii	1	N	OBL					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
,	Total Cover =	84							
	-								
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks: A wet meadow community in a roadside ditch. Hydrophytic vegetation is present.									
Additional Remarks:									