WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14	_
Applicant: Enbridge									County:	Pennington	-	
Investigators: BJC/RAJ				Subregion (MLRA or LRR): MLRA 56						State:	MN	<u>-</u>
Soil Unit:	155A						I Classification:	:		_	.=	
Landform:	Depression		10.0		cal Relief:					Sample Poir	t: w-153n44w11-c	<u>1</u>
Slope (%):	0 - 2%	1141 41 14	Latitude: 48.0		Longitude:			<u>Datum</u> :		4_		
		nditions on the site			ar'? (If no, exp		•		□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are	e normal circun	•	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally pr	oblematic?			✓ Yes	□ No		Range:	Dir:	
SUMMARY C									10			
Hydrophytic Vegetation Present?			Yes		-		Hydric Soils Present? Yes Is This Sampling Point Within A Wetland? Yes					
Wetland Hyd			Yes									
Remarks:			•			sier dogv	wood. It is locat	ed in a dep	ression as p	part of a wet	and complex with for	resh wet
	•	nallow marsh, and	hardwood sw	amp compor	ents.							
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all	that apply; M	linimum of or	e primary	or two se	econdary requi	red):				
Primary:	<u>:</u>	•						,	Secondary:	<u>.</u>		
A1 - Surface Water					B11 - Salt					B6 - Surface		_
	A2 - High Wa				B13 - Aqua						Vegetated Concave S	3urface
	A3 - Saturation B1 - Water M			□ C1 - Hydrogen Sulfide Odor □ □ C2 - Dry Season Water Table □							ge Patterns	na Dooto (tillod)
	B1 - Water M B2 - Sedimen						ater Table spheres on Living	Roots (not till	L □	C3 - Oxidized	Rhizospheres on Livir	ig Roots (tilled)
	B3 - Drift Dep	•					duced Iron	rtoots (not th		•	on Visible on Aerial Ima	agery
	B4 - Algal Ma				C7 - Thin N				✓	D2 - Geomor		<i></i> 97
	B5 - Iron Dep	osits			Other (Exp	olain)			✓	D5 - FAC-Ne		
		n Visible on Aerial Im	nagery							D7 - Frost-He	aved Hummocks (LRF	RF)
	B9 - Water-St	ained Leaves										
							•					
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Dept	า:	_ (in.)			Wetland F	- Hydrology	Present?	Υ	
Water Table	Present?	Yes □	Dept	า:	_ (in.)			Wetland i	iyarology i	1 10301111		
Saturation Pr	resent?	Yes □	Dept	า:	_ (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	stream gauge, moni	itoring well, ac	rial photos, pr	evious insp	ections),	if available:					
	·				evious insp	ections),	if available:					
Remarks:	·	stream gauge, moni f wetland hydrolog			evious insp	pections),	if available:					
Remarks:	·				evious insp	ections),	if available:					
Remarks:	Indicators o		gy are presen	i.	·	,		ndicators.)				
Remarks: SOILS Profile Descri	Indicators o	f wetland hydrolog	gy are presen	t. Iment the indi	cator or co	onfirm th	e absence of ir					
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Remarks: SOILS Profile Descri	Indicators o	f wetland hydrolog	gy are presen	t. Iment the indi	cator or co	onfirm th	e absence of ir ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concen	Indicators o	f wetland hydrolog be to the depth ne	gy are presen	t. Iment the indi	cator or co	onfirm th	e absence of ir ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri	Indicators of ption (Description, D=Depl	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere	ment the indied/Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)		Loamy mineral		
Remarks: SOILS Profile Descri (Type: C=Concent	ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covere	ment the indi	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	MMI	Loamy mineral		
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-6 6-12	ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1	eeded to docu atrix, CS=Covere	color (cator or co	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location	MMI FSL	Loamy mineral		
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-12 12-18 NRCS Hydri	ption (Descriptration, D=Deplementation, D=Deple	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 6/2 Indicators (ch	eeded to docuatrix, CS=Covered % 100 90	Color (Hue_10YR dicators are r	cator or cograins; Loca Moist) 6/6 not presented as a serior of the code of	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	MMI FSL FS Indicators 1 A9 - 1 cm M	for Problemat	ic Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-12 12-18 NRCS Hydri	htration, D=Deplementation, D=	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 6/2 Indicators (characters)	eeded to docuatrix, CS=Covered % 100 90	color (Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted	cator or co Grains; Loca Moist) 6/6 not presen edox Matrix Mucky Miner Gleyed Matri	mottle which was all x	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemate Muck (LRR I, J) t Prairie Redox urface (LRR Gelains Depress ced Vertic	ic Soils ¹ (LRR F, G, H)	73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w11-c1			
					•			
VEGETATIO	N (Species identified in all uppercase a	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: 4 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 4 (B)			
5.		-			·			
6.		1			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.					(7, 12)			
8.	J	1			Prevalence Index Worksheet			
9.					4			
					Total % Cover of: Multiply by:			
10.	Total Cover				OBL spp. $\frac{10}{150}$ $x = \frac{10}{300}$ $x = \frac{10}{300}$			
	Total Cover =	= 0		FACW spp. 150				
					FAC spp. 15			
	Stratum (Plot size: 15 ft. radius)		\/	E A O \ A /	FACU spp. $5 x 4 = 20$			
1.	Salix discolor	50	Y	FACW	UPL spp. $0 x 5 = 0$			
2.	Cornus alba	20	Y	FACW				
3.	Salix interior	10	N	FACW	Total 180 (A) 375 (B)			
4.								
5.		1			Prevalence Index = B/A = 2.083			
6.								
7.		1						
8.		1			Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	 Total Cover =	80			X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Harb Stratum /	Plot size: 5 ft radius)							
1	Plot size: 5 ft. radius)	30	Υ	FACW	Problem Hydrophytic Vegetation (Explain) *			
1.	Poa palustris		<u> </u>		* Indicators of budric soil and wetland budrology must be			
2.	Agrostis gigantea	20		FACW	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Solidago gigantea	15	N	FAC				
4.	Symphyotrichum lanceolatum	15	N	FACW	Definitions of Vegetation Strata:			
5.	Lycopus uniflorus	10	N	OBL				
6	Thalictrum dioicum	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Cirsium arvense	5	N	FACU	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.			
10.	Total Cover =	= 100			Trocky thice is a series of the series of th			
	Total Cover	= 100						
)	(District 200 (1 and 1 and 2							
woody vine St	ratum (Plot size: 30 ft. radius)							
1.	1	1						
2.		1						
3.					Hydrophytic Vegetation Present?Y			
5.	1							
4.								
	Total Cover =	= 0						
Remarks:	The wetland sample point is in a Willow-Ca	rr communi	ty dominat	ed by pus	sy willow and red-osier dogwood in the shrub layer and fowl bluegrass and redtop			
	in the herbaceous layer.							
	<u> </u>							
Additional Pemarks:								
Additional	Additional Remarks:							