## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/16/14	,	
Applicant:		Enbridge								County:	Marshall		
Investigators		RAJ/BJC			Subregio	`	A or LRR):	MLRA 56		State:	MN		
Soil Unit:	165A						I Classification	:					
Landform:	Dip		10	20000	Local Relief		7000			Sample Poin	w-156n46w33-c2		
Slope (%):	0 - 2%		Latitude: 48.2			: -96.577		Datum:					
	-	nditions on the site			-				□ No	Section:			
Are Vegetation		□, or Hydrology	•	•		Are	e normal circun	-	esent?	Township:			
Are Vegetation		□, or Hydrology	Liaturally p	robiematic	<i>:</i>			□ No		Range:	Dir:		
SUMMARY C			V					Lludria Cail	la Dragont?	Vaa			
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes Yes			Hydric Soils Present? Is This Sampling Poir				/etland? Yes		
Remarks:				ivated field	Most of the	oboltorb	olt in Cibarian				ninated by willow species.	ΛII	
Remarks.					. MOSt Of the	Sileitein	beit is Siberian e	enn, but in ti	ie welland a	area il is uoi	illiated by willow species.	All	
HADBOLOG	•	of wetland condition	ons are med										
HYDROLOG													
_	•	icators (Check all	that apply; I	Minimum o	f one primary	or two s	econdary requi	red):	0				
<u>Primary:</u> □	<u>"</u>	Motor			□ D11 Colt	Crust			Secondary:		Soil Crooks		
	A2 - High Wa			□ B11 - Salt Crust □ □ B13 - Aquatic Fauna □							B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio				□ C1 - Hydro		B10 - Drainag						
	B1 - Water M						ater Table	_			Rhizospheres on Living Roots	; (tilled)	
	B2 - Sedimen	•					spheres on Living educed Iron	Roots (not till	• -	C8 - Crayfish			
	B3 - Drift Dep B4 - Algal Ma				☐ C4 - Prese					D2 - Geomory	on Visible on Aerial Imagery		
	B5 - Iron Dep				□ Other (Exp		400		☑	D5 - FAC-Nei			
		n Visible on Aerial Ima	agery		•	,				D7 - Frost-He	aved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves											
Field Observ					,, ,								
Surface Water		Yes □	Dep		(in.)			Wetland H	lydrology F	Present?	Υ		
Water Table		Yes	Dep		(in.)				.,		<u> </u>		
Saturation Present? Yes   Depth: (in.)													
		100 =	200		()								
Describe Rec	orded Data (s	tream gauge, monit	<u> </u>			pections),	, if available:						
Describe Rec			toring well, a			pections)	, if available:						
Remarks:		stream gauge, monit	toring well, a			pections)	, if available:						
Remarks:	Wetland hy	stream gauge, monit drology is present.	toring well, a	erial photos	, previous ins								
Remarks:  SOILS Profile Descri	Wetland hydiption (Descri	stream gauge, monit drology is present. be to the depth nee	toring well, a	erial photos	, previous ins	onfirm th	e absence of ir						
Remarks:  SOILS Profile Descri	Wetland hydiption (Descri	stream gauge, monit drology is present.	toring well, a	erial photos	, previous ins	onfirm th	e absence of ir						
Remarks:  SOILS Profile Descri	Wetland hydiption (Descri	stream gauge, monit drology is present. be to the depth needletion, RM=Reduced Ma	toring well, a	erial photos	, previous ins	onfirm th	ne absence of in Pore Lining, M=Matr						
Remarks:  SOILS Profile Descri (Type: C=Concer	Wetland hydiption (Descri	stream gauge, monited drology is present.  be to the depth new etion, RM=Reduced Ma	toring well, a	erial photos ument the red/Coated Sa	, previous ins indicator or c and Grains; Loca	onfirm th ation: PL=P Mottl	ne absence of in Pore Lining, M=Matr	rix)	Texture		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer	Wetland hyding iption (Descrintration, D=Depl	be to the depth need to matrix  Matrix  Color (Moist)	eded to doc atrix, CS=Cove	ument the red/Coated Sa	, previous ins	onfirm th	ne absence of in Pore Lining, M=Matr		Texture		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7	iption (Descri	be to the depth need to the depth need to the depth need to Matrix  Color (Moist)	eded to doc atrix, CS=Cove	ument the red/Coated Sa	, previous ins indicator or c and Grains; Loca	onfirm th ation: PL=P Mottl	ne absence of in Pore Lining, M=Matr	rix)	LVFS		Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-18  NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth need to the depth need to the depth need to the depth need to make the dept	eded to doc atrix, CS=Cove	ument the red/Coated Sa	or (Moist)	onfirm theation: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	LVFS FS Indicators f	or Problemat	ic Soils <sup>1</sup>		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-18	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth need to the detion, RM=Reduced Marking Color (Moist)  2/1 6/2  Indicators (checking the depth of the detion, RM=Reduced Marking Color (Moist)  2/1 6/2	eded to doc atrix, CS=Cove	ument the red/Coated Sandicators and S6 - Strip F1 - Loar	or (Moist)  The not preserved Matrix  The not Matrix	onfirm the ation: PL=P  Mottl %  nt):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox urface (LRR G	i <mark>c Soils<sup>1</sup></mark> (LRR F, G, H)		
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w33-c2
					•
<b>VEGETATION</b>		e non-native	species.)		
Tree Stratum (	(Plot size: 30 ft. radius)				
_ 1	<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:4(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: 80.0% (A/B)
7.					
8.	_				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $_{-}$ 60 $_{-}$ $\times$ 1 = $_{-}$ 60
	Total Cover = _	0	_		OBL spp. 60
					FAC spp. $0   x   3 = 0$
	Stratum (Plot size: 15 ft. radius)			=: 0)4/	FACU spp. $\underline{\qquad}$ $\times$ $\underline{4} = \underline{\qquad}$ $\underline{\qquad}$
1.	Salix discolor	40	Y	FACW	UPL spp. $35$ $x = 5$ $175$
2.	Salix bebbiana	30	Y	FACW	
3.	Salix petiolaris	20	Υ	OBL	Total 167 (A) 379 (B)
4.					
5.					Prevalence Index = B/A = 2.269
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					XDominance Test is > 50%
	Total Cover = _	90	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	40	Υ	OBL	
2.	Bromus inermis	30	Y	UPL	* Indicators of hydric soil and wetland hydrology must be
3.	Asclepias syriaca	5	N	UPL	present, unless disturbed or problematic.
4.	Mentha arvensis	2	N	FACW	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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	77	,		
1			_	!	ļ ·
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.	( 10t 0120: 00 tit : 00.00)				
2.				-	
3.					Hydrophytic Vegetation Present? Y
5.					11, al opin, no 1 ogotanom 1 1 ocom 1
4.					
	Total Cover =	0			
Remarks:			and woolly	sedae wit	hin a shelterbelt in a cultivated field. Hydrophytic vegetation is present.
rtomanto.	The second secon	a milomo c	and woony	oougo mi	Tim a choice boil in a calavated hela. Hydrophytic vogetation to procent.
A 1 11/1 1 F					
Additional R	temarks:				