WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/25/14
Applicant:		Enbridge								County:	Marshall
Investigators		NTT/BEH			Subragion		or LRR):	MLRA 56		State:	MN
	I27A				Sublegio	•	,			Siale.	
Soil Unit:				-	ool Doliofy		I Classification			_ Comula Deinti	w 154 p 45 w 2 d 1
Landform:	Depression		10.00		cal Relief:			Deture	_	Sample Point:	w-154n45w2-d1
Slope (%):	3 - 7%		Latitude: 48.20		Longitude:			Datum			
	• •	nditions on the sit			af ? (If no, exp			☑ Yes		Section:	
Are Vegetation		□, or Hydrology	• •			Are	e normal circur	-	esent?	Township:	
Are Vegetation		□, or Hydrology	□aturally pro	blematic?			⊠ Yes	□ No		Range:	Dir:
SUMMARY C	of Findings	5									
Hydrophytic \	Vegetation P	resent?	Yes		_				Is Present?		
Wetland Hyd	Irology Prese	nt?	Yes					Is This Sa	mpling Poir	nt Within A W	etland? Yes
Remarks:	The wetland	l is hardwood swa	amp located wi	thin an asper	n-dominate	ed forest	t. An ATV trail	crosses thro	ough the are	ea. Dominant	plants include reed canary grass
and prairie cord grass.											
HYDROLOG	Y										
Wetland Hy	drology Indi	i cators (Check al	ll that apply: M	inimum of on	e nrimarv	or two s	econdary requ	ired)•			
Primary:			n that apply, M		epinary	01 100 5	econdary requ	neu).	Secondary:		
	A1 - Surface \	Nater			B11 - Salt (Crust				B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aqua		l				Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydrog					B10 - Drainage	
	B1 - Water Mater	arks			C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not til	le 🗆	C8 - Crayfish E	
	B3 - Drift Dep				C4 - Preser						Nisible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M		ace			D2 - Geomorp	
	B5 - Iron Dep		magany		Other (Expl	iain)				D5 - FAC-Neu	
	B9 - Water-St	n Visible on Aerial In ained Leaves	nayery						Ц		aved Hummocks (LRR F)
Field Observ	vations										
Surface Wat		Voo 🗖	Dooth		(in)						
			Depth		(in.)			Wetland H	-lydrology	Present?	Y
Water Table		Yes	Depth		(in.)						
Saturation Pr	resent?	Yes 🛛	Depth		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No primary wetland hydrology indicators are present. Wetland hydrology is assumed based on landscape position and hydrophytic vegetation.											
Remarks:	No primary	wetland hydrology	-		-			ed on lands	cape positic	on and hydrop	hytic vegetation.
Remarks:	No primary	wetland hydrology	-		-			ed on landso	cape positic	on and hydrop	hytic vegetation.
Remarks: SOILS	No primary	wetland hydrology	-		-			ed on landso	cape positio	on and hydrop	hytic vegetation.
SOILS Profile Descri	ption (Descri	be to the depth ne	y indicators are	e present. We	etland hydr	rology is	e absence of i	ndicators.)	cape positic	on and hydrop	hytic vegetation.
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SOILS Profile Descri	ption (Descri	be to the depth ne	y indicators are	e present. We	etland hydr	onfirm th	e absence of in ore Lining, M=Mat	ndicators.)	cape positio	on and hydrop	hytic vegetation.
SOILS Profile Descri	ption (Descri	be to the depth ne etion, RM=Reduced M Matrix	y indicators are eeded to docur Matrix, CS=Covered	e present. We	etland hydr	onfirm th ion: PL=P Mottle	e absence of in ore Lining, M=Mat	ndicators.)	cape positic	on and hydrop	hytic vegetation.
SOILS Profile Descri	ption (Descri	be to the depth ne	y indicators are	e present. We	etland hydr cator or co Grains; Locat	onfirm th	e absence of in ore Lining, M=Mat	ndicators.)	Texture	on and hydrop	hytic vegetation. Remarks
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n45w2-d1			
-								
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>	Dominant	Ind.Status	Dominance Test Worksheet			
1.	Populus tremuloides	75	Y	FAC				
2.					Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: <u>3</u> (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					$OBL spp. 0 \qquad X 1 = 0$			
	Total Cover =	75	_		FACW spp. 70 X $2 = 140$			
					FAC spp. 75 X $3 = 225$			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 X 4 = 40			
1.					$UPL spp. \underline{0} X 5 = \underline{0}$			
2.								
3.					Total(A)(B)			
4.								
5.					Prevalence Index = B/A = <u>2.613</u>			
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.	Spartina pectinata	40	<u>Y</u>	FACW				
2.	Phalaris arundinacea	20	<u>Y</u>	FACW				
3.	Poa pratensis	10	<u>N</u>	FACU				
4.	Calamagrostis canadensis	10	N	FACW	Definitions of Vegetation Strata:			
5.					-l _			
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.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.					4			
14.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	80	_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.		•						
	Total Cover =							
Remarks:	Dominant plants are prairie cord grass and r	eed canary	/ grass ber	neath a ca	anopy of quaking aspen.			
Additional F	Remarks:							