WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14
Applicant:		Enbridge MRK/OTG								County: State:	Pennington
Investigators:			Subregion (MLRA or LRR): MLRA 56							MN	
Soil Unit:	I62A						Classification	:		1	
Landform:	Dip				cal Relief:					Sample Point:	w-154n44w33-r2
Slope (%): 0 - 2% Latitude: 48.115118 Longitude: -96.3190185000 Datum:											
		nditions on the site ty	•		I r? (If no, exp				□ No	Section:	
Are Vegetation		•	cantly disturbed?			Are normal circumstances present?			Township:		
Are Vegetation	aturally prob		□ No		Range:	Dir:					
SUMMARY C											
Hydrophytic \	_		Yes						Is Present?		
Wetland Hyd			Yes					Is This Sar	mpling Poin	nt Within A W	etland? Yes
Remarks: The wetland is a Shrub-Carr located next to a hardwood swamp.											
HYDROLOG	Υ										
Wetland Hv	drology Ind	icators (Check all tha	at apply: Mir	nimum of one	e primary	or two se	econdary requi	red):			
Primary:			л орр.у,		о рy			. • • • • • • • • • • • • • • • • • • •	Secondary:		
					B11 - Salt (Crust				B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
☑	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water M				C2 - Dry Se			Dooto (not till			Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep	•			C3 - Oxidiz C4 - Presei		pheres on Living	Roots (not till	• -	C8 - Crayfish E	ourrows o Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M				□	D2 - Geomorp	
	B5 - Iron Dep				Other (Expl				✓	D5 - FAC-Neu	
	B7 - Inundation	n Visible on Aerial Image	ery		` '	,				D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	vations:										
Surface Wate	er Present?	Yes	Depth:		(in.)			\Motland L	lvdrology	Brocont?	Υ
Water Table	Present?	Yes □	Depth:		(in.)			welland F	lydrology l	riesent?	T
Saturation Pr	resent?	Yes ☑	Depth:	0	(in.)						_
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
	<u>`</u>		ng well, aeri	al photos, pre	evious insp	ections),	if available:				
Remarks:	<u>`</u>	stream gauge, monitorion ated at the surface.	ng well, aeri	al photos, pre	evious insp	ections),	if available:				
Remarks:	<u>`</u>		ng well, aeri	al photos, pre	evious insp	ections),	if available:				
Remarks:	Soil is satur	ated at the surface.				·		ndicators)			
Remarks: SOILS Profile Descri	Soil is satur	ated at the surface. be to the depth neede	ed to docum	nent the indic	cator or co	onfirm the	e absence of ir				
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Remarks: SOILS Profile Descri	Soil is satur	ated at the surface. be to the depth neede	ed to docum	nent the indic	cator or co	onfirm the	e absence of ir ore Lining, M=Mati				
Remarks: SOILS Profile Descri (Type: C=Concen	Soil is satur	ated at the surface. be to the depth needetion, RM=Reduced Matrix Matrix	ed to docun	nent the indic /Coated Sand C	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati es		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concent	Soil is satur ption (Descri	ated at the surface. be to the depth neede etion, RM=Reduced Matrix Matrix Color (Moist)	ed to docum , CS=Covered %	nent the indic	cator or co Grains; Locat	onfirm the ion: PL=Pc	e absence of ir ore Lining, M=Mati	rix)			Remarks
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w33-r2
VEGETATION	(Species identified in all uppercase ar	re non-native	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: 4 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 4 (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. 40
	Total Cover =	= 0			FACW spp110
					FAC spp. $\underline{\qquad}$ $x 3 = \underline{\qquad}$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)			_	FACU spp.
1.	Salix interior	50	Υ	FACW	UPL spp. $0 x 5 = 0$
2.	Salix discolor	15	Υ	FACW	
3.	Salix bebbiana	5	N	FACW	Total 150 (A) 260 (B)
4.					
5.					Prevalence Index = B/A = 1.733
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	70			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.	Juncus arcticus	25	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Agrostis gigantea	15	N	FACW	present, unless disturbed or problematic.
4.					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.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					1
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	= 80			,
	Total Cover =	. 00			
Moody Vino Str	ratum (Plot size: 30 ft. radius)				
1	ratum (Flot size. 30 it. radius)				
2.					
3.					Hydrophytic Vogotation Brocont?
5. 5.				,	Hydrophytic Vegetation Present?Y
4.					
4.	Total Cover =	= 0			
Pomorko:			icov willow	Ground	cover is predeminantly weelly sedge and eretic ruch
Remarks:	The shrub layer is dominated by sandbar wil	now and pu	issy willow	. Ground	cover is predominantly woolly sedge and arctic rush.
Additional R	Remarks:				