## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14	
Applicant:		Enbridge								County:	Pennington	
Investigators:		MRK/OTG			Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I66A			_			I Classification					
Landform:	Dip				cal Relief:					Sample Point:	w-154n44w33-h1	
Slope (%):	0 - 2%		titude: 48.11				7035000	Datum		1		
	·	onditions on the site ty	•		ar? (If no, exp				□ No	Section:		
Are Vegetation			significantly			Are	e normal circun	-	esent?	Township:		
Are Vegetation			aturally prol	blematic?				□ No		Range:	Dir:	
SUMMARY O												
Hydrophytic \	•		Yes						ils Present?		11 12 M	
Wetland Hyd			Yes							nt Within A W	etland? <b>Yes</b>	
Remarks:	The wetlan	d sample point is loca	ated in a wet	t meadow do	minated b	by comm	on spike-rush a	and narrow-	leaf cattail.			
HYDROLOGY	Y											
Wetland Hy	drology Ind	icators (Check all the	at apply; Mii	nimum of on	e primary	or two se	econdary requi	red):				
Primary:						_			Secondary:	•		
	A1 - Surface				B11 - Salt (					B6 - Surface S		
	A2 - High Wa A3 - Saturation				B13 - Aqua C1 - Hydro					B8 - Sparsely B10 - Drainage	Vegetated Concave Surface	
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (till	led)
	B2 - Sedimer						spheres on Living	Roots (not til	le 🗆	C8 - Crayfish B		ou,
	B3 - Drift Dep	•					duced Iron	(			n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N		ace		✓	D2 - Geomorp		
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu		
		on Visible on Aerial Image tained Leaves	ery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	ba - water-o	tailled Leaves										
Field Observ	vations:											
Surface Water		Voc. □	Donth:		(in )							
Water Table		Yes □ Yes □	Depth:		(in.)			Wetland I	Hydrology	Present?	Υ	
Saturation Pr		Yes $\square$	Depth:		- (in.) (in.)						<del></del>	
		165	Deptii.		_ (111.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
	<u> </u>				<u>.</u>							
Remarks:	<u> </u>	stream gauge, monitor d sample point is loca			<u>.</u>							
Remarks:	<u> </u>				<u>.</u>							
Remarks:	The wetland	d sample point is loca	ated in a dip	and domina	ted by hyd	drophytic	vegetation.	edicators )				
Remarks:  SOILS Profile Descri	The wetland	d sample point is loca	ated in a dip	and domina	ted by hyd	drophytic	vegetation. e absence of ir					
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Remarks:  SOILS Profile Descri	The wetland	d sample point is localibe to the depth need etion, RM=Reduced Matrix	ated in a dip	and domina	ted by hyd	drophytic onfirm the	vegetation. e absence of irore Lining, M=Mati					
Remarks:  SOILS Profile Descri (Type: C=Concen	The wetland	d sample point is localibe to the depth need letion, RM=Reduced Matrix	led to docun	and domina	ted by hyd cator or co Grains; Loca	drophytic onfirm the tion: PL=Pe	vegetation. e absence of irore Lining, M=Matr	rix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concen	The wetland	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)	led to docun	and domina	ted by hyd cator or co Grains; Loca	drophytic onfirm the	vegetation. e absence of irore Lining, M=Mati				Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10	The wetland ption (Description, D=Dep	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1	led to docun x, CS=Covered	nent the indi	cator or co	onfirm the tion: PL=Pe	e absence of irore Lining, M=Matros  Type	Location	CL		Remarks	
Remarks:  SOILS Profile Descrip (Type: C=Concent)  Depth (In.)  0-10  10-17	The wetland ption (Description, D=Dep	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1 5/2	led to docume, CS=Covered    %   100   98	nent the indi //Coated Sand	cator or co Grains; Local	onfirm the tion: PL=Pe	e absence of inore Lining, M=Matrones  Type  C	Location M	CL SIC		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10	The wetland ption (Description, D=Dep	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1	led to docun x, CS=Covered	nent the indi	cator or co Grains; Local	onfirm the tion: PL=Pe	e absence of irore Lining, M=Matros  Type	Location	CL		Remarks	
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Remarks:  SOILS Profile Descrip (Type: C=Concent)  Depth (In.)  0-10  10-17  17-21	The wetland ption (Description, D=Dep	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/2  7/2	led to docume, CS=Covered    %	color ( Hue_7.5YR Hue_10YR	cator or co Grains; Local Moist)  4/6  7/8	Mottle  Mottle  2  10	e absence of inore Lining, M=Matro	Location M	CL SIC		Remarks	
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Remarks:  SOILS Profile Descrip (Type: C=Concent)  Depth (In.)  0-10  10-17  17-21	The wetland ption (Description, D=Dep Hue_10YR Hue_2.5Y Hue_5Y	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/2  7/2	led to docume, CS=Covered    %	and domination and do	cator or co Grains; Local Moist)  4/6  7/8	Mottle  Mottle  2  10	e absence of inore Lining, M=Matro	Location  M PL	SIC SC	for Problematic		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-17 17-21  NRCS Hydri	The wetland ption (Description, D=Dep  Hue_10YR Hue_2.5Y Hue_5Y  ic Soil Field A1- Histosol	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/2  7/2  Indicators (chec	led to docume, CS=Covered    %	and domination and do	cator or co Grains; Local Moist)  4/6  7/8  not presen	Mottle  Mottle  2  10	e absence of inore Lining, M=Matro	Location	SIC SC Indicators 1 A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descripe: C=Concent  Depth (In.) 0-10 10-17 17-21  NRCS Hydri	The wetland ption (Description, D=Depintration, D=Depintration	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/2  7/2  Indicators (checoipedon	led to docume, CS=Covered    %	color ( Hue_7.5YR Hue_10YR  S5 - Sandy R S6 - Stripped	cator or co Grains; Local Moist)  4/6  7/8  not presented ox Matrix	Mottle % 2 10 t):	e absence of inore Lining, M=Matro	Location	Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>	
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Remarks:  SOILS Profile Descripe: C=Concent  Depth (In.) 0-10 10-17 17-21  NRCS Hydri	The wetland  ption (Description, D=Depintration, D=Depintratio	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/2  7/2  Indicators (checonipedon stic n Sulfide	cated in a dip	color ( Hue_7.5YR Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or co Grains; Local Moist)  4/6  7/8  not presented with the content of the	Mottle %  2 10 t):	e absence of inore Lining, M=Matro	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	c Soils <sup>1</sup>	
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-17 17-21  NRCS Hydri	The wetland  ption (Descriptration, D=Dep  Hue_10YR Hue_2.5Y Hue_5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	ibe to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/2  7/2  Indicators (checon Sulfide I Layers (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LRR FRICKy Peat or Peat (LRR FRIC	ed to docunt (K, CS=Covered 98 90 90 64 G, H)	and domination of the individual of the individu	cator or co Grains; Local Moist)  4/6  7/8  not presen  edox Matrix Mucky Minera Gleyed Matrix ark Surface I Dark Surface epressions	mottle when the state of the st	e absence of ir ore Lining, M=Matrone CCC	Location	Indicators of P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Red Vertic Parent Material Shallow Dark Stain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	ent,
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-154n44w33-h1
VEGETATIO		e 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:3(A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(42)
8.					Prevalence Index Worksheet
9.					4
10.					
10.	_l Total Cover =	0			OBL spp. 95
	Total Cover =	0	FACW spp. $\frac{10}{10}$ $\times 2 = \frac{20}{10}$		
0 11 /01 1	O (D				FAC spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Stratum (Plot size: 15 ft. radius)		\ <u>\</u>	ODI	FACU spp. $\frac{15}{15}$ $\times$ 4 = $\frac{60}{15}$
1.	Salix petiolaris	5	Y	OBL	UPL spp. $0 \times 5 = 0$
2.					
3.					Total 120 (A) 175 (B)
4.					
5.					Prevalence Index = B/A = 1.458
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	5			X Prevalence Index is ≤ 3.0 *
	10101 -		_		
Llawb Ctuations	(Diet einer Eft redire)				Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)		Υ	ODI	Problem Hydrophytic Vegetation (Explain) *
1.	Eleocharis palustris	40	<u> </u>	OBL	* Indicators of hydric call and watland hydrology myst be
2.	Typha angustifolia	30	<u>Y</u>	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Carex pellita	20	N	OBL	·
4.	Cirsium arvense	15	N	FACU	Definitions of Vegetation Strata:
5.	Mentha arvensis	10	N	FACW	
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.					<del> </del>
15.					Woody Vines - All woody vines, regardless of height.
15.	Tatal Carre	445			VVOOdy Villes - All Woody Villes, Tegardless of Height.
	Total Cover =	115	_		
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland sample point is dominated by m		low, comm	non spike-	rush and narrow-leaf cattail.
	, , , , , , , , , , , , , , , , , , , ,		,		
A al al!4! =! !	Damanka.				
Additional	kemarks:				
Ī					