WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R Enbridge									Date:	09/27/14					
Applicant:			Subregion (MLPA or LPP): MLPA 56							County:	Pennington MN						
Investigators Soil Unit:	I62A	NTT/BEH	I	Subregion (MLRA or LRR): MLRA 56 NWI Classification:							State:						
Landform:	Dip Local Relief: CC									Sample Point	w-154n44w28-e1						
Slope (%):	3 - 7%		Latitude: 48			Longitude:			Datum:								
		nditions on the sit				r? (If no, exp	1		☑ Yes		Section:						
Are Vegetatio		□, or Hydrology	•	•			Are	e normal circur ☑ Yes	nstances pre □ No	esent?	Township: Bango:	Dir:					
Are Vegetation		□, or Hydrology		μιου	lemanc:			☑ Yes			Range:						
Hydrophytic V			Ye	es					Hvdric Soi	ls Present?	Yes						
Wetland Hyd	•		Ye								t Within A W	/etland? Yes					
Remarks:		l is a fresh wet m	eadow locat	ited w	/ithin an exis	sitng pipe	line corri	idor. The wetla				canary grass, prairie cord grass					
HYDROLOG	Y																
Wetland Hy	drology Indi	i cators (Check al	II that apply;	; Mini	imum of one	e primary	or two se	econdary requi	red):								
Primary:	<u>:</u>	·						-		Secondary:							
	A1 - Surface \ A2 - High Wat					B11 - Salt (B13 - Aqua					B6 - Surface S B8 - Sparselv	Soil Cracks Vegetated Concave Surface					
	A3 - Saturatio	n				C1 - Hydro	gen Sulfid	le Odor			B10 - Drainag	je Patterns					
	B1 - Water Ma					C2 - Dry Se			Deate (not till			Rhizospheres on Living Roots (tilled)					
	B2 - Sediment B3 - Drift Dep	•				C3 - Oxidiz C4 - Prese		spheres on Living duced Iron	ROOLS (HOL IIII		C8 - Crayfish C9 - Saturatio	Burrows on Visible on Aerial Imagery					
	B4 - Algal Mat	t or Crust				C7 - Thin N	Muck Surfa				D2 - Geomorp	ohic Position					
	B5 - Iron Depo	osits n Visible on Aerial Ir	maaaru			Other (Exp	olain)				D5 - FAC-Neu	utral Test aved Hummocks (LRR F)					
	B9 - Water-St		magery									aved Hummocks (LKK F)					
Field Observ																	
Surface Wate				epth:		(in.)			Wetland F	lydrology F	Present?	Y					
Water Table		Yes		epth: _		(in.) (in.)				· j · · · · · · · · · · · · · · · · · · ·		·					
				· -		· · ·		Saturation Present? Yes Depth: (in.)									
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary wetland hydrology indicators present. Wetland hydrology is assumed based on hydrophytic vegetation and landscape position.																	
	Al	<u> </u>	<u> </u>									And the second sec					
Remarks:	No primary	<u> </u>	<u> </u>						n hydrophyt	ic vegetatio	n and landso	cape position.					
	No primary	<u> </u>	<u> </u>						n hydrophyt	ic vegetatio	n and landso	cape position.					
SOILS Profile Descri	ption (Descri	wetland hydrology	y indicators eeded to do	pres	ent. Wetlan	d hydrolog	gy is ass	sumed based o e absence of ir	ndicators.)	ic vegetatio	n and landso	cape position.					
SOILS Profile Descri	ption (Descri	wetland hydrolog	y indicators eeded to do	pres	ent. Wetlan	d hydrolog	gy is ass	sumed based o e absence of ir	ndicators.)	ic vegetatio	n and landso	cape position.					
SOILS Profile Descri	ption (Descri	wetland hydrology be to the depth ne etion, RM=Reduced M	y indicators eeded to do	pres	ent. Wetlan	d hydrolog	gy is ass onfirm the tion: PL=Pe	sumed based o e absence of ir ore Lining, M=Mat	ndicators.)	ic vegetatio	n and landso	cape position.					
SOILS Profile Descri (Type: C=Concer	ption (Descri	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix	y indicators eeded to do Matrix, CS=Cov	pres Dcume vered/(ent. Wetlan ent the indic Coated Sand G	d hydrolog cator or co Grains; Locat	gy is ass onfirm the tion: PL=Pe Mottle	e absence of ir ore Lining, M=Mat	ndicators.)		n and landso						
SOILS Profile Descri	ption (Descri	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	y indicators eeded to do Matrix, CS=Cov	pres	ent. Wetlan	d hydrolog cator or co Grains; Locat	gy is ass onfirm the tion: PL=Pe	sumed based o e absence of ir ore Lining, M=Mat	ndicators.)	ic vegetation	n and landso	cape position.					
SOILS Profile Descri (Type: C=Concer Depth (In.)	ption (Descri	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	y indicators eeded to do Matrix, CS=Cov	ocume vered/(%	ent. Wetlan ent the indic Coated Sand G	d hydrolog cator or co Grains; Locat	gy is ass onfirm the tion: PL=Pe Mottle	e absence of ir ore Lining, M=Mat	ndicators.)	Texture	n and landso						
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	ption (Descri	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	y indicators eeded to do Matrix, CS=Cov	ocume vered/(%	ent. Wetlan ent the indic Coated Sand G Color (N	d hydrolog cator or cc Grains; Locat	gy is ass onfirm the tion: PL=Pe Mottle	e absence of ir ore Lining, M=Mat es Type	ndicators.)	Texture SL	n and landso						
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	ption (Descri	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	y indicators eeded to do Matrix, CS=Cov	ocume vered/(%	ent. Wetlan ent the indic Coated Sand G Color (N	d hydrolog cator or cc Grains; Locat	gy is ass onfirm the tion: PL=Pe Mottle	e absence of ir ore Lining, M=Mat es Type	ndicators.)	Texture SL	n and landso						
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-20	ption (Descri ntration, D=Deple Hue_10YR Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	y indicators eeded to do Matrix, CS=Cov	pres Dcume vered/0 % 100 90	ent the indic Coated Sand G Color (N Hue_10YR	d hydrolog cator or co Grains; Locat Moist) <u>6/8</u>	gy is ass onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Mat es Type C	ndicators.)	Texture SL	n and landso						
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-20	ption (Descri	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	y indicators eeded to do Matrix, CS=Cov	pres Dcume vered/0 % 100 90	ent. Wetlan ent the indic Coated Sand G Color (N	d hydrolog cator or co Grains; Locat Moist) <u>6/8</u>	gy is ass onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Mat es Type	ndicators.)	Texture SL SC		Remarks					
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-20	ption (Descri htration, D=Deple Hue_10YR Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (cl	y indicators eeded to do Matrix, CS=Cov	s pres	ent the indic Coated Sand G Color (N Hue_10YR	d hydrolog cator or co Grains; Locat Moist) 6/8 ot present edox	gy is ass onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Mat es Type C	Location	Texture SL SC Indicators f A9 - 1 cm M	or Problemati	Remarks					
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w28-e1
VEGETATIO	N (Species identified in all uppercase ar	e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	<u>% Cover</u>	Dominant	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.					Bereast of Deminant Species That Are OBLEACW or EAC: 100.0% (A/B)
	<u>_</u>				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.	J				
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $5 \times 1 = 5$
	Total Cover =	0	FACW spp 90 x 2 = 180		
			FAC spp.0x3 =0FACU spp.0x4 =0		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.					$UPL spp. \qquad 0 \qquad X \ 5 = \qquad 0$
2.					
3.					Total <u>95</u> (A) <u>185</u> (B)
4.					
5.					Prevalence Index = B/A = <u>1.947</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	 Total Cover =	0			$\frac{1}{X} \qquad \text{Prevalence Index is } \le 3.0 \text{ *}$
		0			
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Spartina pectinata	25	Y	FACW	
2.	Agrostis gigantea	20	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Phalaris arundinacea	20	Y	FACW	present, unless disturbed or problematic.
4.	Calamagrostis canadensis	10	Ν	FACW	Definitions of Vegetation Strata:
5.	Juncus torreyi	10	N	FACW	
6	Poa palustris	5	N	FACW	-
					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.	Eleocharis palustris	5	N	OBL	height (DDH), 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.					1
14.					1
14.					Woody Vines - All woody vines, regardless of height.
15.					WOODY VILLES - All woody villes, regardless of height.
	Total Cover =	95			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					1
3.					Hydrophytic Vegetation Present? Y
5.					
					4
4.	Tatal Queen				
	Total Cover =				
Remarks:	Dominant vegetation includes reed canary g	rass, prairi	e cord gra	ss, and re	edtop.
Additional R	Pomarke:				