WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date: County:	06/27/14					
Applicant: Enbridge											Kittson					
Investigators: EAB/RAJ				Subregion (MLRA or LRR): MLRA 56							MN					
Soil Unit:							Classification:									
Landform:	Depression				cal Relief:					Sample Point:	w-159n49w36-a1					
Slope (%):	0 - 2%		Latitude: 48.5			-96.911		Datum:								
		nditions on the site			ar? (If no, ex				⊡ No	Section:						
Are Vegetation						Are	e normal circum	•	esent?	Township:						
Are Vegetation			Liturally pro	oblematic?			🗹 Yes	□No		Range:	Dir:					
SUMMARY C			Yes													
Hydrophytic			Hydric Soils Present? Yes													
				Yes			Is This Sampling Point Within A Wetland? Yes									
Remarks: The wetland is a shallow marsh located within a roadside ditch. The vegetation is dominated by river bulrush and reed canary grass. The marsh mingles with wet meadow vegetation (prairie cordgrass) at its southern end. Adjacent cropland drains into the ditch and existing pipelines intersect its northern end.																
		w vegetation (prain	e colugiass)	at its souther	m enu. Au	ijacent ci	opiano orains i		i anu existii	ng pipelines i	itersect its northern end.					
HYDROLOG	Y															
Wetland Hy	drology Ind	icators (Check all	that apply; M	inimum of on	ne primary	or two se	econdary requi	red):								
Primary: Secondary:																
✓	A1 - Surface A2 - High Wa			B11 - Salt					B6 - Surface S							
- -	A3 - Saturatio				B13 - Aquatic Fauna				B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns							
	B1 - Water M			C2 - Dry Season Water Table												
	B2 - Sedimen			C3 - Oxidized Rhizospheres on Living Roots (not tille							Burrows					
	B3 - Drift Dep B4 - Algal Ma				C4 - Presence of Reduced Iron						Visible on Aerial Imagery					
	B4 - Algai Ma B5 - Iron Dep			□ C7 - Thin Muck Surface □ □ Other (Explain) □						D2 - Geomorp D5 - FAC-Neu						
		on Visible on Aerial Ima	agery	_		,					ved Hummocks (LRR F)					
	B9 - Water-St	ained Leaves														
Field Obser	vations:															
Surface Wat	er Present?	Yes 🗹	Depth	n: <u>4</u>	(in.)			Wotland H	lydrology I	Prosont?	Y					
Water Table		Yes 🛛	Depth	n:	(in.)			Wettantu i	iyarology i	resent:						
Saturation P	resent?	Yes 🗹	Depth	n: <mark>0</mark>	(in.)	Saturation Present? Yes Depth: 0 (in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																
Describe Rec	orded Data (s	stream gauge, monit	toring well, ae	rial photos, pr	evious insp	pections),	if available:									
Describe Reco Remarks:			-			-		bled due to	ootential bu	ried utilities; f	herefore, the water table depth					
		s have impacted si	-			-		oled due to	potential bu	ried utilities; 1	herefore, the water table depth					
	Recent rain	s have impacted si	-			-		bled due to	potential bu	ried utilities; t	herefore, the water table depth					
Remarks: SOILS Profile Descri	Recent rain is unknown	s have impacted so	eded to docu	and saturatio	on depths.	Soils cou	uld not be samp e absence of in	dicators.)	potential bu	ried utilities; 1	herefore, the water table depth					
Remarks: SOILS Profile Descri	Recent rain is unknown	s have impacted s	eded to docu	and saturatio	on depths.	Soils cou	uld not be samp e absence of in	dicators.)	ootential bu	ried utilities; t	herefore, the water table depth					
Remarks: SOILS Profile Descri	Recent rain is unknown	s have impacted so be to the depth ne etion, RM=Reduced Ma	eded to docu	and saturatio	on depths.	Soils cou onfirm the ation: PL=Pe	uld not be samp e absence of in ore Lining, M=Matr	dicators.)	potential bu	ried utilities; t	herefore, the water table depth					
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Remarks: SOILS Profile Descri	Recent rain is unknown	s have impacted so be to the depth ne etion, RM=Reduced Ma	eded to docu	and saturatio	n depths. cator or co Grains; Loca	Soils cou onfirm the ation: PL=Pe	uld not be samp e absence of in ore Lining, M=Matr	dicators.)	ootential bu	ried utilities; t	herefore, the water table depth					
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Remarks: SOILS Profile Descri (Type: C=Concer	Recent rain is unknown	s have impacted so be to the depth ne- etion, RM=Reduced Ma Matrix	eded to docu atrix, CS=Covere	ment the indi	n depths. cator or co Grains; Loca	Soils cou onfirm the tion: PL=Pe Mottle	uld not be samp e absence of in ore Lining, M=Matr	idicators.)		ried utilities; t						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Recent rain is unknown iption (Descrintration, D=Depl	s have impacted sub- be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Covere	and saturatio	Moist)	Soils cou onfirm the tion: PL=Pe Mottle %	uld not be samp e absence of in ore Lining, M=Matr es Type	idicators.)		ried utilities; t						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Recent rain is unknown iption (Descrintration, D=Depl	s have impacted sub- be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Covere % eck here if in	and saturatio	Moist)	Soils cou onfirm the tion: PL=Pe Mottle %	uld not be samp e absence of in ore Lining, M=Matr es Type	Location	Texture	or Problematic	Remarks					
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr U U U U U U U U U U U U U	Recent rain is unknown iption (Descri- ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type:	s have impacted si be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon stic I Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral fucky Peat or Peat (LR ky Peat or Peat (LR	eded to docu atrix, CS=Covere % % eck here if in eck here if in C C C C C C C C C C C C C C C C C C C	and saturatio	n depths.	Soils cou onfirm thion: PL=Pe Mottle %	Id not be samp e absence of in ore Lining, M=Matr es Type	I Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	or Problematic uck (LRR I, J) Prairie Redox (L urface (LRR G) Valins Depressio ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegetat ed or problematic.	Remarks : Soils ¹ RR F, G, H) INS (LRR H, outlisde MLRA 72, 73) urface					

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-159n49w36-a1				
VEGETATIO	N (Species identified in all uppercase an (Plot size: 30 ft. radius)	e non-native	species.)						
Thee Stratum (Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.		<u></u>	bonnan	ma.otatao					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)				
3.					(
4.					Total Number of Dominant Species Across All Strata: 2 (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 x 1 = 40				
	Total Cover =	0			FACW spp. 40 x 2 = 80				
					FAC spp. 0 x 3 = 0				
Sapling/Shrub Stratum (Plot size: 15 ft. radius)					FACU spp. <u>5</u> x 4 = <u>20</u>				
1.					UPL spp. 0 $x 5 = 0$				
2.									
3.					Total <u>85</u> (A) <u>140</u> (B)				
4.									
5.					Prevalence Index = B/A = <u>1.647</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) *				
	Plot size: 5 ft. radius)		V	0.01	Problem Hydrophytic Vegetation (Explain) *				
1.	Schoenoplectus fluviatilis	25	Y Y	OBL	* Indicators of hydric soil and wetland hydrology must be				
2.	Phalaris arundinacea	25		FACW	present, unless disturbed or problematic.				
<u> </u>	Spartina pectinata	10	N	FACW					
4. 5.	Alisma triviale	10 5	N N	OBL OBL	Definitions of Vegetation Strata:				
<u> </u>	Beckmannia syzigachne Elymus repens	5	N	FACU					
7.	Agrostis gigantea	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
8.	Agrostis gigunicu	5	IN	TAGW					
9.				-	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.	<u></u>								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	85							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =								
Remarks:	Vegetation at the sample point is dominated	by river bu	iirush, ree	a canary g	grass, and prairie cordgrass.				
Additional Remarks:									