WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R											07/02/14		
Applicant: Enbridge										Kittson			
Investigators: EAB/RAJ				Subregion (MLRA or LRR): MLRA 56							MN		
Soil Unit: 1132A Landform: Depression				NWI Classification: Local Relief: CL									
Landform: Slope (%):	0 - 2%		Latitude: 48.57		Longitude:		240	Datum:		Sample Point	w-159n49w23-f2		
		nditions on the site							🖸 No	Section:			
Are Vegetati		or Hydrology			xi: (ii 110, exp		e normal circun			Township:			
Are Vegetati		, or Hydrology					✓ Yes □No			Range:	Dir:		
SUMMARY (biomato.						range.	5		
			Yes					Hvdric Soil	ls Present?	Yes			
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes			Is This Sampling Poir				etland? Yes		
Remarks:			sh dominated	by cattails ar	d prairie c	cordgrase	s that is located				. Recent heavy rains have		
	affected the	area.											
HYDROLOG	Y												
Wetland Hy	/drology Ind	icators (Check all	that apply: Mi	nimum of on	e primarv	or two se	econdarv requi	red):					
Primary			and apply, in		o printer y	0	eeenaary requi		Secondary:				
A1 - Surface Water					B11 - Salt (Ó	B6 - Surface Soil Cracks			
	A2 - High Wa				B13 - Aqua					B8 - Sparsely Vegetated Concave Surface			
	A3 - Saturatio B1 - Water Mater Mater Mater Materia			□ C1 - Hydrogen Sulfide Odor □ □ C2 - Dry Season Water Table □							B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen			C2 - Dry Season Water Table C3 - Oxidized Rhizospheres on Living Roots (not till C3 - Oxidized Rhizospheres on Living Roots)									
	B3 - Drift Dep			C4 - Presence of Reduced Iron							n Visible on Aerial Imagery		
	B4 - Algal Ma												
	B5 - Iron Dep	osits In Visible on Aerial Im	agen							D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)			
	B9 - Water-St		lagery						-	D7 - FIOSI-HEA	aved Hummocks (LKK F)		
_													
Field Obser	vations:												
	ter Present?	Yes 🗹	Depth	3	(in.)								
Water Table		Yes 🔲	Depth		(in.)			Wetland H	lydrology	Present?	Y		
Saturation P	resent?	Yes 🗹	Depth		(in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Doscribo Roc	ordod Data (a	troom gougo moni	toring woll ag	ial photos pr		octions)	if available:						
			-					deide diteb	the water t	able could be	t be observed		
Describe Rec Remarks:		stream gauge, moni ter is present throu	-					dside ditch,	the water t	able could no	t be observed.		
Remarks:			-					dside ditch,	the water t	able could no	t be observed.		
Remarks: SOILS	Surface wat		ighout the wet	land. Due to	digging re	estriction	s within the roa		the water t	able could no	ot be observed.		
Remarks: SOILS Profile Descri	Surface wat	ter is present throu	eded to docu	land. Due to ment the indi	digging re	estriction	s within the roa e absence of ir	dicators.)	the water t	able could no	ot be observed.		
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Remarks: SOILS Profile Descri (Type: C=Concer	Surface wat	ter is present throu be to the depth ne etion, RM=Reduced Ma Matrix	eded to docur	land. Due to	digging re cator or co Grains; Locat	onfirm the tion: PL=P	s within the roa e absence of ir ore Lining, M=Matr	dicators.)		able could no	ot be observed.		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Surface wat	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docur atrix, CS=Covered %	land. Due to	digging re cator or cc Grains; Local Moist)	Mottle	s within the roa e absence of ir ore Lining, M=Matr	ndicators.) ix)					
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-159n49w23-f2					
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.										
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.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp. <u>45</u> X 1 = <u>45</u>					
	Total Cover =	0	_		FACW spp. 21 x 2 = 42					
					FAC spp. 5 x $3 = 15$					
	Stratum (Plot size: 15 ft. radius)				FACU spp. 15 x 4 = 60					
1.					UPL spp. 0 x 5 = 0					
2.										
3.	<u> </u>				Total 86 (A) 162 (B)					
4.										
5.					Prevalence Index = B/A = <u>1.884</u>					
6.										
7.					Indramhutia Vasatatian Indiantara					
8.					Hydrophytic Vegetation Indicators:					
9. 10.					Rapid Test for Hydrophytic Vegetation					
10.	Total Cover =	0			$\begin{array}{c c} X & \text{Dominance Test is } > 50\% \\ \hline X & \text{Prevalence Index is } \le 3.0 * \\ \end{array}$					
		0	_							
Horb Stratum (Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *					
1.	Spartina pectinata	20	Y	FACW						
2.	Typha angustifolia	20	Y	OBL	* Indicators of hydric soil and wetland hydrology must be					
3.	Beckmannia syzigachne	15	Y	OBL	present, unless disturbed or problematic.					
4.	Eleocharis palustris	10	Ν	OBL	Definitions of Vegetation Strata:					
5.	Elymus repens	10	Ν	FACU						
6	Apocynum cannabinum	5	Ν	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Cirsium arvense	5	Ν	FACU	height (DBH), regardless of height.					
8.	Symphyotrichum lanceolatum	1	Ν	FACW						
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.	<u> </u>									
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	86	_							
	ratum (Plot size: 30 ft. radius)									
1.										
2.	<u> </u>				Hudronhutio Verstation Presenta					
3.	<u> </u>				Hydrophytic Vegetation Present? Y					
<u>5.</u> 4.										
4.	Total Cover =	0		_						
Remarks:			leaf cattail	with com	I mon spikerush and American sloughgrass also present.					
. tomunto.	e ene le deminated by plante oblugidos di		Sur outidi	.,	and operation and renormal along grade aloo produit.					
Additional Remarks:										
Auditional P										
<u></u>										