WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/24/14					
Applicant:		Enbridge								County:	Marshall					
Investigators		EAB/RAJ			_Subregior	•	or LRR):	MLRA 56		State:	MN					
Soil Unit:	I132A						Classification:				.=					
Landform:	Depression		40.54		cal Relief:		000			Sample Point:	w-158n48w6-c1					
Slope (%):	0 - 2%		atitude: 48.54		Longitude:			<u>Datum:</u>								
	_ · ·	nditions on the site t			ar? (If no, exp				☑ No	Section:						
Are Vegetati		□, or Hydrology □	•			Are	normal circum	-	esent?	Township:						
Are Vegetati			naturally pro	blematic?			□ Yes	☑ No		Range:	Dir:					
SUMMARY (
	Vegetation P		Yes		_				s Present?		(I IO V -					
	drology Prese		Yes		1 14		4 1			t Within A We						
Remarks:					•						ong a railroad track wes	t of the				
	•	ortion along the road	is used as	an ATV trail	. The regio	n has re	ceived above-a	average rain	fall in recer	nt weeks.						
HYDROLOG	Υ															
Wetland Hy	drology Ind	icators (Check all th	nat apply; Mi	nimum of or	ne primary	or two se	econdary requir	red):								
<u>Primary</u>	<u>/:</u>	•						,	Secondary:							
✓	A1 - Surface				B11 - Salt (B6 - Surface S						
	A2 - High Wa				B13 - Aqua						egetated Concave Surface)				
	A3 - Saturation B1 - Water M			Ø	C1 - Hydro					B10 - Drainage		to (tillod)				
	B2 - Sedimen				C2 - Dry Se		spheres on Living	Roots (not till		C8 - Crayfish B	Rhizospheres on Living Roo	is (tilled)				
	B3 - Drift Dep				C4 - Presei			110013 (1101 1111	Ò		Visible on Aerial Imagery					
	B4 - Algal Ma			_	C7 - Thin M				✓	D2 - Geomorph						
	B5 - Iron Dep				Other (Expl	lain)			☑	D5 - FAC-Neut						
		on Visible on Aerial Imag	jery			,				D7 - Frost-Hea	ved Hummocks (LRR F)					
	B9 - Water-S	tained Leaves														
Field Obser	vations:															
Surface Wat	ter Present?	Yes ☑	Depth:	6	_ (in.)			Wotland H	lydrology I	Procent?	Υ					
Water Table	Present?	Yes □	Depth:		(in.)			Welland n	lydrology l	resent:						
Saturation P	resent?	Yes ☑	Depth:	0	(in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																
Describe Rec	corded Data (s	stream gauge monitor	ring well aer	al photos pi	evious insp	ections)	if available:									
	<u> </u>							drogen sulfi	ide odor wh	en soils are t	odden. The water table	denth is				
Describe Rec Remarks:	Heavy rains	have impacted the	current surfa	ace water ar	nd saturatio			drogen sulfi	ide odor wh	en soils are t	odden. The water table	depth is				
Remarks:	Heavy rains		current surfa	ace water ar	nd saturatio			drogen sulfi	ide odor wh	en soils are ti	odden. The water table	depth is				
Remarks:	Heavy rains unknown, s	s have impacted the dince soils could not b	current surfa be sampled i	nce water ar	nd saturation de ditch.	n depths	s. There is a hy		de odor wh	en soils are t	odden. The water table	depth is				
Remarks: SOILS Profile Descr	Heavy rains unknown, s	have impacted the	current surface sampled in decur	n the roads	nd saturation ide ditch.	on depths	s. There is a hy e absence of in	dicators.)	de odor wh	en soils are ti	odden. The water table	depth is				
Remarks: SOILS Profile Descr	Heavy rains unknown, s	s have impacted the cince soils could not be to the depth need	current surface sampled in decur	n the roads	nd saturation ide ditch.	on depths	s. There is a hy e absence of in	dicators.)	de odor wh	en soils are ti	odden. The water table	depth is				
Remarks: SOILS Profile Descr	Heavy rains unknown, s	s have impacted the cince soils could not be to the depth need	current surface sampled in decur	n the roads	nd saturation ide ditch.	on depths	s. There is a hy e absence of in ore Lining, M=Matr	dicators.)	de odor wh	en soils are t	odden. The water table	depth is				
Remarks: SOILS Profile Descr	Heavy rains unknown, s	s have impacted the cince soils could not be to the depth needetion, RM=Reduced Matrix	current surface sampled in decur	n the roads	nd saturation ide ditch. icator or congrains; Locat	on depths onfirm the	s. There is a hy e absence of in ore Lining, M=Matr	dicators.)	de odor wh	en soils are ti	rodden. The water table	depth is				
Remarks: SOILS Profile Descr (Type: C=Concer	Heavy rains unknown, s	s have impacted the cince soils could not be to the depth need etion, RM=Reduced Matrix	current surface sampled in ded to docurrent ix, CS=Covered	n the roads nent the ind l/Coated Sand	nd saturation ide ditch. icator or congrains; Locat	on depths onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr	dicators.)		en soils are ti		depth is				
Remarks: SOILS Profile Descr (Type: C=Concer	Heavy rains unknown, s	s have impacted the cince soils could not be to the depth need etion, RM=Reduced Matrix	current surface sampled in ded to docurrent ix, CS=Covered	n the roads nent the ind l/Coated Sand	nd saturation ide ditch. icator or congrains; Locat	on depths onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr	dicators.)		en soils are ti		depth is				
Remarks: SOILS Profile Descr (Type: C=Concer	Heavy rains unknown, s	s have impacted the cince soils could not be to the depth need etion, RM=Reduced Matrix	current surface sampled in ded to docurrent ix, CS=Covered	n the roads nent the ind l/Coated Sand	nd saturation ide ditch. icator or congrains; Locat	on depths onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr	dicators.)		en soils are ti		depth is				
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Heavy rains unknown, s iption (Description, D=Depl	have impacted the cince soils could not be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist)	current surface sampled in ded to document ix, CS=Covered	n the roads nent the ind //Coated Sand	icator or co Grains; Locat	on depths onfirm the ion: PL=Po	e absence of incre Lining, M=Matri	dicators.)		en soils are ti		depth is				
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Heavy rains unknown, s iption (Description, Depoint of the property of the pro	have impacted the cince soils could not be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist)	current surface sampled in ded to document ix, CS=Covered	n the roads nent the ind //Coated Sand Color (ide ditch. icator or co Grains; Locat (Moist) not present	on depths onfirm the ion: PL=Po	e absence of incre Lining, M=Matri	dicators.) ix) Location	Texture Indicators f	or Problematic	Remarks	depth is				
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Heavy rains unknown, so iption (Description, Depoint of the property of the pr	have impacted the cince soils could not be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) Indicators (check	current surface sampled in ded to document ix, CS=Covered	n the roads nent the ind Coated Sand Color Color S5 - Sandy F	ide ditch. icator or co Grains; Locat Moist) not present	on depths onfirm the ion: PL=Po	e absence of incre Lining, M=Matri	Location	Texture Indicators f A9 - 1 cm M	or Problematic	Remarks Soils ¹	depth is				
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Heavy rains unknown, so iption (Description (Description), D=Deplementation, D=Deple	s have impacted the cince soils could not be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) Indicators (checking Sulfide)	ck here if inc	n the roads nent the ind Coated Sand Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy (F2 - Loamy (icator or co Grains; Locat Moist) Redox d Matrix Mucky Minera	on depths onfirm the ion: PL=Po Mottle %	e absence of incre Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F	or Problemation uck (LRR I, J) Prairie Redox (Lurface (LRR G) Plains Depression	Remarks Soils ¹	depth is				
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Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	s have impacted the cince soils could not be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) Indicators (checking Sulfide)	current surface sampled in the sample in	n the roads nent the ind Coated Sand Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy (F2 - Loamy (F3 - Deplete	icator or co Grains; Locat Moist) Moist) Redox Mucky Minera Gleyed Matrix Dark Surface	on depths onfirm the ion: PL=Po Mottle % t):	e absence of incre Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	or Problematic uck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressioned Vertic	Remarks Soils¹ RR F, G, H) ns (LRR H, outisde MLRA 72, 73)	depth is				
Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.)	Heavy rains unknown, so iption (Description (Description), D=Deplete A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	have impacted the cince soils could not be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) Indicators (check in Sulfide Layers (LRR FGH) et Below Dark Surface eark Surface eark Surface	current surface sampled in the sample sa	color (Color (S5 - Sandy F56 - Stripped F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F7 - Deplete F8 - Redox	icator or co Grains; Locat (Moist) (Mo	mon depths on firm the dion: PL=Poi Mottle % t):	e absence of incre Lining, M=Matrices Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	or Problematic uck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression red Vertic arent Material	Remarks Soils¹ RR F, G, H) ns (LRR H, outisde MLRA 72, 73)	depth is				
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-158n48w6-c1			
VEGETATIO		e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC:1(A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 1 (B)			
5.					` ` <i></i> ` ` <i>,</i>			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.					(742)			
8.					Prevalence Index Worksheet			
9.					4			
					Total % Cover of: Multiply by:			
10.	Total Caver	0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
	Total Cover =	0	_		FACW spp. $\underline{\qquad 61 \qquad \qquad X \ Z = \qquad \underline{\qquad 122 \qquad \qquad }$			
					OBL spp. 1			
	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 X 4 = 0$			
1.					UPL spp. $0 X 5 = 0$			
2.								
3.					Total 67 (A) 138 (B)			
4.								
5.					Prevalence Index = B/A = 2.060			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.								
					Rapid Test for Hydrophytic Vegetation			
10.	Tatal Oassa				X Dominance Test is > 50%			
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Spartina pectinata	60	Υ	FACW				
2.	Apocynum cannabinum	5	N	FAC	* Indicators of hydric soil and wetland hydrology must be			
3.	Eleocharis palustris	1	N	OBL	present, unless disturbed or problematic.			
4.	Symphyotrichum lanceolatum	1	N	FACW	Definitions of Vegetation Strata:			
5.	Cymphystrician ianiccolatani	•		171011				
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.					height (DBH), regardless of height.			
					- Holgrik (BBH), rogaralooo or Holgrik			
8.					O II (OI I Was displayed less than 3 in DDI seasonthese of height			
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.			
101	Total Cover =	67			1			
	Total Cover =	07	_					
111								
	tratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?Y			
5.								
4.								
	Total Cover =	0						
Remarks:	The vegetation is dominated by prairie cordg							
	The regression action and pressure corresponds							
Additional Remarks:								