WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/22/14	<u>-</u>				
Applicant:		Enbridge				0 1 1	/A 41 D A		1415450		County:	Marshall	_				
Investigators		NTT/BEH/BJC				_Subregio	•	A or LRR):	MLRA 56		State:	MN	<u>-</u>				
Soil Unit:	165A					a a l Dallat		I Classification	:			455-, 400 :4					
Landform:	Talf 0 - 2%		Latitude: 4	0 272		cal Relief:		2000	Deture		Sample Point:	w-155n46w2-j1					
Slope (%):		onditions on the site				Longitude:			Datum: ☑ Yes	□ No	Section:						
Are Vegetati		□, or Hydrology				ai: (II 110, exp	1	e normal circun			Township:						
Are Vegetati		□, or Hydrology	•	•				□ Yes		336111:	Range:	Dir:					
SUMMARY (Hattirally	, ргов	nomatio:			1 163	= 110		rtange.	Dii.					
			N	lo					Hydric Soil	s Present?	No						
Hydrophytic Vegetation Present? Wetland Hydrology Present?				No				Hydric Soils Present? No Is This Sampling Point Within A Wetland? No									
Remarks:		point is located in			field. Domi	inant veget	tation inc	cludes Kentuck									
									y is talled given a	,							
HYDROLOG	Υ																
Primary: ☐ A1 - Surface Water ☐ A2 - High Water Table ☐ A3 - Saturation					ly; Minimum of one primary or two secondary required): Secondar B11 - Salt Crust B13 - Aquatic Fauna C1 - Hydrogen Sulfide Odor							oil Cracks Vegetated Concave S e Patterns					
□ B1 - Water Marks □ C2 - Dry Season Water Table □ C3 - Oxidized Rhizospheres on Living Roots (not till □ C3 - Oxidized Rhizospheres on Living Roots (not till □ C4 - Presence of Reduced Iron □ C7 - Thin Muck Surface □ C7								C8 - Crayfish E C9 - Saturation D2 - Geomorp D5 - FAC-Neut	n Visible on Aerial Ima hic Position	agery							
Field Obser	vations:																
Surface Wat	ter Present?	Yes □	D	epth:		(in.)			\Motional III	luduala avel	Dracent?	N					
Water Table	Present?	Yes □	D	epth:		_ (in.)			wetiand n	lydrology l	resent?	N —					
Saturation P	resent?	Yes □	D	epth:		(in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																	
I Describe Rec	corded Data(stream gauge, moni	itoring well.	. aeria	al photos, pr	evious insp	ections).	l , if available:									
	•			-		revious insp	ections),	, if available:									
Remarks:	•	stream gauge, moni hydrology indicato		-		revious insp	ections),	, if available:									
	•			-		revious insp	ections),	, if available:									
Remarks: SOILS Profile Descr	No wetland	hydrology indicate	ors are pre	esent.	ent the ind	icator or co	onfirm th	e absence of ir									
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Remarks: SOILS Profile Descr	No wetland	hydrology indicators ibe to the depth ne	ors are pre	esent.	ent the ind	icator or co	onfirm th	e absence of in ore Lining, M=Mati									
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicated ibe to the depth neetion, RM=Reduced Matrix	eeded to do	ocum	ent the ind	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)								
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicate ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	ocum overed/	ent the ind	icator or co Grains; Loca	onfirm th	e absence of in ore Lining, M=Mati		Texture		Remarks					
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicated by the to the depth need to	eeded to do atrix, CS=Co	ocum overed/ %	ent the ind	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)	CL		Remarks					
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Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicated by the to the depth need to	eeded to do atrix, CS=Co	ocum overed/ %	ent the ind	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)	CL		Remarks					
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicated by the to the depth need to	eeded to do atrix, CS=Co	ocum overed/ %	ent the ind	icator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)	CL		Remarks					
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-10 10-18	No wetland iption (Description, D=Dep	hydrology indicate tibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to do atrix, CS=Co	ocum overed/ % 100 100	ent the indi Coated Sand Color (icator or co	Mottle	e absence of in fore Lining, M=Matr es Type	rix)	CL		Remarks					
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-10 10-18	No wetland	hydrology indicate tibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to do atrix, CS=Co	ocum overed/ % 100 100	ent the ind	icator or co	Mottle	e absence of ir ore Lining, M=Matr	rix)	CL	or Problematic	,					
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-10 10-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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	hydrology indicate ibe to the depth neetion, RM=Reduced Mineral Matrix Color (Moist) 2/1 4/1 Indicators (characters) ipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LR) cky Peat or Peat (LR)	eeded to do atrix, CS=Co	ocum overed/ % 100 100 if indi	Coated Sand Coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C F3 - Depleted F6 - Redox E F7 - Depleted F8 - Redox E	icator or co Grains; Local (Moist) (Moist) not present Redox d Matrix Mucky Mineral Gleyed Matrix d Matrix Dark Surface d Dark Surface	mottle with the second	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	ed Vertic arent Material Shallow Dark S iin in Remarks)	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72)					
Remarks: SOILS Profile Descr (Type: C=Conce	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 M S4 - Sandy G	hydrology indicators ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (characters) ipedon stic in Sulfide in Sulfide in Sulfide in Sulfide in Sulfide in Surface in	eeded to do atrix, CS=Co	ocum overed/ % 100 100 if indi	Coated Sand Coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C F3 - Depleted F6 - Redox E F7 - Depleted F8 - Redox E	icator or co Grains; Local (Moist) (Moist) not present Redox d Matrix Mucky Mineral Gleyed Matrix Dark Surface d Dark Surface	mottle with the second	e absence of infore Lining, M=Matrone Enring, M=Matrone Enring, M=Matrone Enrichment es	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S uin in Remarks)	C Soils ¹ [LRR F, G, H) Ons (LRR H, outside MLRA 72)					
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w2-j1			
VEGETATIO	· · ·	e non-native	species.)					
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.	Opecies ivaine	78 COVEL	Dominant	<u>IIIu.Status</u>	Dominance rest Worksheet			
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)			
3.					(71)			
4.					Total Number of Dominant Species Across All Strata: 4 (B)			
5.					retain variable of Bernandine epocles various variation.			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
7.					(142)			
8.	J				Prevalence Index Worksheet			
9.					Total 9/ Cover of: Multiply by			
10.					OBL spp. 0			
	Total Cover =	0			FACW spp. $0 \times 2 = 0$			
					FAC spp. $0 \times 3 = 0$			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{1}{80}$ $\times 4 = \frac{320}{1}$			
1.					UPL spp. ${20}$ $x = 5 = 100$			
2.					··· ————			
3.					Total 100 (A) 420 (B)			
4.								
5.					Prevalence Index = B/A = 4.200			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Poa pratensis	30	Υ	FACU				
2.	Phleum pratense	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Bromus inermis	20	Υ	UPL	present, unless disturbed or problematic.			
4.	Elymus repens	20	Υ	FACU	Definitions of Vegetation Strata:			
5.	Cirsium arvense	10	N	FACU				
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.					III All harbaccaus (non woods) planta regardless of circ			
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.				_				
14.					Woody Vines - All woody vines, regardless of height.			
15.	Tatal O	400			vvoouy villes - All woody villes, regardless of helghi.			
	Total Cover =	100	_					
Manda 1 / in = 0:	eratum (Diot aires, 20 ft, realises)							
vvoody vine St	ratum (Plot size: 30 ft. radius)							
2.								
3.					Hydrophytic Vegetation Present? N			
5.					Tryatophytic vegetation i resent:			
4.								
	Total Cover =	0						
Remarks:			and domi	inated by	Kentucky blue grass, timothy, smooth brome, and creeping wild rve			
Remarks: The upland vegetation is consistent throughout the field and dominated by Kentucky blue grass, timothy, smooth brome, and creeping wild rye.								
<u> </u>								
Additional Remarks:								
Additional F	Nemaiks.							