WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/05/14	
Applicant:		Enbridge									County:	Marshall	
Investigators	:	MRK/BEH				Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	166A							Classification	:		_		
Landform:	Talf					cal Relief:					Sample Point:	u-156n47w1-b1	
Slope (%):	0 - 2%	Hal al la	Latitude: 48.			Longitude:			Datum		_		
	, 	nditions on the site	7 1			ar? (If no, exp		· · · · · · · · · · · · · · · · · · ·	Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•	•			Are	e normal circur	-	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally p	oroblei	matic?			Yes	□ No		Range:	Dir:	
SUMMARY C													
Hydrophytic \	•		No			•				ils Present?		41 10 N	
Wetland Hyd			No		<u> </u>					mpling Poir	nt Within A We	etland? No	
Remarks:	The upland	sample point is do	ominated by	/ Kentu	ucky blue	grass and	adjacen	t to shallow ma	arsh.				
HYDROLOG'	Y												
Wetland Hy	drology Ind	icators (Check all	that apply;	Minim	num of on	e primary	or two se	econdary requi	red):				
Primary:	_	·								<u>Secondary</u> :	_		
	A1 - Surface					B11 - Salt					B6 - Surface S		
	A2 - High Wa					B13 - Aqua		o Odor				Vegetated Concave Sur	face
	A3 - Saturation B1 - Water M					C1 - Hydro C2 - Dry So					B10 - Drainage	e Patterns Rhizospheres on Living	Poots (tilled)
	B2 - Sedimer							spheres on Living	Roots (not til	le 🗆	C8 - Crayfish E		rtoots (tilled)
	B3 - Drift Dep	•				C4 - Prese			(1.00.0			n Visible on Aerial Image	ery
	B4 - Algal Ma	t or Crust				C7 - Thin N	/luck Surfa	ace			D2 - Geomorp		•
	B5 - Iron Dep					Other (Exp	lain)				D5 - FAC-Neut		
		on Visible on Aerial Im	nagery								D7 - Frost-Hea	eved Hummocks (LRR F	-)
	B9 - Water-S	tained Leaves											
Field Observe													
Field Observ			_			(1)							
Surface Water		Yes	-	pth:		(in.)			Wetland I	Hydrology	Present?	N	
Water Table		Yes		pth:		(in.)				.,		<u> </u>	
Saturation Pr	resent?	Yes □	Dei	pth:		(in.)							
			<u>'</u>			. ()							
Describe Reco	orded Data (stream gauge, moni	<u> </u>		photos, pre	` ` `	ections),	if available:					
Describe Reco	`	stream gauge, moni	itoring well, a	aerial p	•	evious insp	ections),	if available:					
	`		itoring well, a	aerial p	•	evious insp	ections),	if available:					
	`		itoring well, a	aerial p	•	evious insp	ections),	if available:					
Remarks: SOILS Profile Descri	No primary	or secondary hydro	toring well, a cological ind	aerial plicators	s were ob	evious insp served.	onfirm the	e absence of ir					
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Remarks: SOILS Profile Descri	No primary	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma	itoring well, a cological ind	aerial plicators	s were ob	evious insp served.	onfirm the	e absence of ir ore Lining, M=Mat					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix	eeded to docatrix, CS=Cove	aerial plicators	s were ob	served. cator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descr	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docatrix, CS=Cove	aerial plicators	s were ob	served. cator or co	onfirm the	e absence of ir ore Lining, M=Mat		_		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No primary ption (Descriptration, D=Dep	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docatrix, CS=Cove	cumenered/Co	s were ob	evious insp served. cator or co Grains; Locar Moist)	onfirm the	e absence of ir ore Lining, M=Mat	rix)	SICL	gravel fragments	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-13	No primary ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/2	eeded to docatrix, CS=Cove	cumenered/Co	nt the indicated Sand C	evious insp served. cator or co Grains; Locar Moist)	onfirm the	e absence of ir ore Lining, M=Mat es Type	Location	SICL SCL	gravel fragments	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-13 13-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/2 8/2 Indicators (ch	eeded to docatrix, CS=Cove	indica S5 F1 F2	color (I ue_10YR ators are r S - Sandy R S - Stripped I - Loamy M	evious inspectived. Cator or control Grains; Local Moist) 6/6 not presented with the control edox Matrix lucky Mineral eleyed Matrix	Mottle Mottle // // // // // // // // // // // // /	e absence of ir ore Lining, M=Mat es Type C	Location	SICL SCL SICL Indicators A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox (Jurface (LRR G) Plains Depression	: Soils ¹ LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-156n47w1-b1				
VEGETATION CONTRACTOR OF THE PROPERTY OF THE P		e non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u>Opedies Ivame</u>	<u> 70 00ver</u>	Dominant	<u>ma.otatus</u>	Dominance Test Worksheet				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.					(
4.					Total Number of Dominant Species Across All Strata: 1 (B)				
5.					(-)				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.					(, 4, 2)				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					$\frac{\text{OBL spp.}}{\text{OBL spp.}} 0 \text{X } 1 = 0$				
	Total Cover =	0			FACW spp. $0 x 2 = 0$				
			_		OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 105 x 4 = 420 UPL spp. 15 x 5 = 75				
Sapling/Shrub \$	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{105}{105}$ $x 4 = \frac{420}{105}$				
1.					UPL spp. $\frac{15}{15}$ $x = \frac{75}{75}$				
2.									
3.					Total 120 (A) 495 (B)				
4.									
5.					Prevalence Index = $B/A = 4.125$				
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	85	Υ	FACU					
2.	Bromus inermis	15	N	UPL	* Indicators of hydric soil and wetland hydrology must be				
3.	Cirsium arvense	10	N	FACU	present, unless disturbed or problematic.				
4.	Asclepias syriaca	10	N		Definitions of Vegetation Strata:				
5.	Dactylis glomerata	5	N	FACU					
6	Taraxacum officinale	5	N	FACU	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.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	130	_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.					Hadaa da Waxa (da Bara (o N				
3.					Hydrophytic Vegetation Present?N				
5.									
4.									
D	Total Cover =								
Remarks:	The upland sample point is dominated by Ke	ntucky blu	egrass.						
Additional R	Remarks:								