WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		_3R Enbridge								Date: County:	07/24/14 Pennington
Investigators										State:	MN
Soil Unit:	I53A NWI Classification:										
Landform: Slope (%):	Side slope Local Relief: VL 3 - 7% Latitude: 48.17267468 Longitude: -96.3830786189									Sample Point	t: u-154n45w12-c1
		ditions on the site			-			Datum: ☑ Yes	□ No	Section:	
Are Vegetation	• •	□, or Hydrology □					e normal circun			Township:	
Are Vegetation	on 🗆 Soil	□, or Hydrology □	• •				☑ Yes	□ No		Range:	Dir:
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? No Hydric Soils Present?											
	-		<u>No</u> No		-						/etland? No
Remarks:	Irology Presen The upland s	ample point is loca		ev field upslo	ope from a	an adiace	ent seasonally-t			nt Within A W	
i tomarito.						in adjace			nago.		
HYDROLOG	Y										
Wetland Hy	drology India	ators (Check all th	hat apply; Mi	nimum of on	e primary	or two se	econdary requi	red):			
Primary:		latar		_		Orwest			Secondary:		
	A1 - Surface W A2 - High Wate				B11 - Salt B13 - Aqua					B6 - Surface S B8 - Sparsely	Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro	gen Sulfid	le Odor			B10 - Drainag	je Patterns
	B1 - Water Mai				C2 - Dry So			Dooto (not till			Rhizospheres on Living Roots (tilled)
	B2 - Sediment B3 - Drift Depo	•			C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not til		C8 - Crayfish C9 - Saturatio	Burrows on Visible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin N					D2 - Geomor	0,
	B5 - Iron Depos				Other (Exp	olain)				D5 - FAC-Neu	
	B9 - Water-Sta	Visible on Aerial Imagined Leaves	gery							D7 - Frost-He	aved Hummocks (LRR F)
Field Observations:											
Surface Wate		les □	Depth		_ (in.)			Wetland H	lydrology	Present?	Ν
Water Table		les □	Depth		(in.)						
Saturation Present? Yes Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary or secondary hydrological indicators were observed.											
			-		-	pections),	if available:				
Remarks:			-		-	pections),	if available:				
Remarks: SOILS	No primary o	r secondary hydrol	logical indica	ators were ob	served.						
Remarks: SOILS Profile Descri	No primary o	r secondary hydrol	logical indica	ators were ob	served.	onfirm the	e absence of ir				
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Remarks: SOILS Profile Descri	No primary o	r secondary hydrol	logical indica	ators were ob	served.	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri	No primary o	r secondary hydrol be to the depth need ion, RM=Reduced Matr	logical indica	ators were ob	eserved. cator or co Grains; Loca	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary o	r secondary hydrol be to the depth need ion, RM=Reduced Matr Matrix	ded to docur	ment the indi	eserved. cator or co Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	Texture SICL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-19 19-21 21-25 21-25 NRCS Hydr	No primary o ption (Describe htration, D=Deplet Hue_10YR Hue_10YR Hue_5Y Hue_2.5Y WP ic Soil Field I A1- Histosol A2 - Histic Epip	r secondary hydrol e to the depth need ion, RM=Reduced Matr Matrix Color (Moist) 2/1 6/3 7/1 6/3 10YR 9.5/1 ndicators (chea	ded to docur rix, CS=Covered % 100 100 90 83 2	tors were ob ment the indi d/Coated Sand of Color (1 Hue_7.5YR Hue_7.5YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped	served. cator or co Grains; Loca Moist) 5/8 5/6 5/6 not presen edox Matrix	onfirm the tion: PL=Pe Mottle % 10 15 t):	e absence of in ore Lining, M=Matr es Type C C	ix) Location M M	SICL S SIC SIC OT Indicators f A9 - 1 cm M A16 - Coast	f or Problemat i luck (LRR I, J) t Prairie Redox	ic Soils ¹ (LRR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n45w12-c1
		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)	% Cover	Dominant	Ind Status	Dominance Test Worksheet
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	
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.					Drevelence Index Merkeheet
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cover	0			OBL spp. 0 x 1 = 0 FACW spp. 15 x 2 = 30 FAC spp. 5 x 3 = 15 FACU spp. 15 x 4 = 60
	Total Cover =	0			FACW spp. 15 $x 2 = 30$
					FAC spp. 5 $x 3 = 15$
	Stratum (Plot size: 15 ft. radius)				$FACU \text{ spp.} \qquad 15 \qquad X \ 4 = \qquad 60$
1.					UPL spp. 70 X 5 = 350
2.					
3.					Total 105 (A) 455 (B)
4.					
5.					Prevalence Index = B/A = 4.333
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) *
, ,	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Hordeum vulgare	70	Y	NI	
2.	Persicaria pensylvanica	15	N	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Amaranthus retroflexus	10	N	FACU	present, unless disturbed or problematic.
4.	Ambrosia artemisiifolia	5	N	FACU	Definitions of Vegetation Strata:
5.	Plantago major	5	N	FAC	
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.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					1
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	105			
	· · · · · · · · · · · · · · · · · · ·				
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	The site is dominated by cultivated barley.				
<u> </u>					
	Domarka				
Additional F	Kemarks:				
1					