WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14	
Applicant:		Enbridge								County:	Pennington	
Investigators	:	BJC/RAJ			_Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	120A					NWI	I Classification:					
Landform:						LL	LL			Sample Point	: u-154n44w3-k1	
Slope (%): 0 - 2% Latitude: 48.103488 Longitude: -96.286128						128	Datum:					
,	Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)											
Are Vegetation							ormal circumstances present? Township:					
Are Vegetatio		□, or Hydrology	• •				☑ Yes	□ No		Range:	Dir:	
SUMMARY C										· · · · · · · · · · · · · · · · · · ·		
Hydrophytic V			No					Hydric Soil	ls Present?	No		
Wetland Hyd	•		No		-					nt Within A W	etland? No	
Remarks:				ture that has	heen left t	to regen	orato. The plan				to the point of being i	identifiable
Remarks.	The uplanu	sample point is io	caleu in a pas	luie mai nas	Deenien	to regent	erate. The plan	t species na	ave regener	rated enough	to the point of being	identinable.
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all	l that apply; M	nimum of on	e primary	or two se	econdary requir	red):				
Primary:	<u>:</u>								Secondary:	<u>.</u>		
	A1 - Surface				B11 - Salt (B6 - Surface S		
	A2 - High Wa				B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio			C1 - Hydrogen Sulfide Odor B10 - Drainage Patterns								
	B1 - Water M				C2 - Dry Se			Deete (ret till			Rhizospheres on Living F	Roots (tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not till	• •	C8 - Crayfish		2 0.7
B3 - Drift Deposits					□ C4 - Presence of Reduced Iron □ C9 - Saturation Visible on Aerial Imagery							
□ B4 - Algal Mat or Crust □ C7 - Thin Muck Surface □ D2 - Geomorphic Position												
	B5 - Iron Dep	osits	nagery		Other (Exp					D5 - FAC-Neu	itral Test)
	B5 - Iron Dep B7 - Inundatio		nagery							D5 - FAC-Neu)
	B5 - Iron Dep B7 - Inundatio	osits on Visible on Aerial Im	nagery							D5 - FAC-Neu	itral Test)
	B5 - Iron Dep B7 - Inundatio B9 - Water-S	osits on Visible on Aerial Im	nagery							D5 - FAC-Neu	itral Test)
Field Observ	B5 - Iron Dep B7 - Inundatio B9 - Water-S vations:	osits on Visible on Aerial Im tained Leaves			Other (Exp					D5 - FAC-Neu	itral Test)
Field Observ	B5 - Iron Dep B7 - Inundatio B9 - Water-S vations: er Present?	osits on Visible on Aerial Im tained Leaves Yes □	Depth		Other (Exp (in.)			Wetland H	_	D5 - FAC-Neu D7 - Frost-Hea	itral Test)
Field Observ Surface Wate Water Table	B5 - Iron Dep B7 - Inundatio B9 - Water-S vations: er Present? Present?	osits on Visible on Aerial Im tained Leaves Yes □ Yes □	Depth Depth	:	Other (Exp (in.) (in.)			Wetland H	_	D5 - FAC-Neu D7 - Frost-Hea	itral Test aved Hummocks (LRR F))
Field Observ	B5 - Iron Dep B7 - Inundatio B9 - Water-S vations: er Present? Present?	osits on Visible on Aerial Im tained Leaves Yes □	Depth	:	Other (Exp (in.)			Wetland H	_	D5 - FAC-Neu D7 - Frost-Hea	itral Test aved Hummocks (LRR F))
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NPCS Hydric Soil Field Indicators (check here if indicators are nragent)

NRCS Hydri	ic Soil Field Indicators (cheo	ck here if ind	licators are not present):		
	A1- Histosol		S5 - Sandy Redox		Indicators for Problematic Soils ¹ A9 - 1 cm Muck (LRR I, J)
	A2 - Histic Epipedon		S6 - Stripped Matrix		A16 - Coast Prairie Redox (LRR F, G, H)
	A3 - Black Histic		F1 - Loamy Mucky Mineral		S7 - Dark Surface (LRR G)
	A4 - Hydrogen Sulfide		F2 - Loamy Gleyed Matrix		F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)
	A5 - Stratified Layers (LRR F)		F3 - Depleted Matrix		F18 - Reduced Vertic
	A9 - 1 cm Muck (LRR FGH)		F6 - Redox Dark Surface		TF2 - Red Parent Material
	A11 - Depleted Below Dark Surface		F7 - Depleted Dark Surface		TF12 - Very Shallow Dark Surface
	A12 - Thick Dark Surface		F8 - Redox Depressions		Other (Explain in Remarks)
	S1 - Sandy Mucky Mineral		F16 - High Plains Depressions (ML	RA 72, 73 of LRR H)	
	S2 - 2.5 cm Mucky Peat or Peat (LRI	R G, H)			
	S3 - 5 cm Mucky Peat or Peat (LRR	F)			¹ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	S4 - Sandy Gleyed Matrix				unless disturbed or problematic.
Restrictive Layer	Туре:		Depth:	Hydric Soil Present?	PN
Remarks:	No indicators of hydric soil were	e observed.			
	-				

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w3-k1
		are 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	Dominance rest worksheet
2.					Number of Dominant Species that are ORL EACIN/ or EAC: 0 (A)
3.		-			Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
					Total Number of Dominant Species Aerose All Strates 2 (P)
<u>4.</u>					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.	J				Drevelence Index Werkeheet
8.					Prevalence Index Worksheet
9.					Total % Cover of: <u>Multiply by:</u>
10.	 Total Cover				$\bigcup_{x \in A} \bigcup_{x \in A} \bigcup_{x$
	Total Cover	=0			FACVV spp. 0 $X 2 = 0$
Cooling (Chaudh	Other (Distainer AF ft. redice)				OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 100 x 4 = 400
	Stratum (Plot size: 15 ft. radius)	-			FACU spp. 100 $X 4 = 400$
1.					UPL spp. 0 $x 5 = 0$
2.					
3.					Total <u>100</u> (A) <u>400</u> (B)
4.					
5.					Prevalence Index = $B/A = $ 4.000
6.					
7.					I hadron hartin Monototion, Indicatorea
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.	Poa pratensis	40	Y	FACU	
2.	Dactylis glomerata	25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Cirsium arvense	15	N	FACU	present, unless disturbed or problematic.
4.	Taraxacum officinale	15	N	FACU	Definitions of Vegetation Strata:
5.	Achillea millefolium	5	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.]			
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover	= 100			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.	<u> </u>				
4.					
	Total Cover	= 0			
Remarks:	The upland sample point is dominated by k		egrass an	d orchard	grass.
			un		
	Domarke				
Additional F					
1					