WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date:	09/17/14
Applicant: Enbridge							County:	Pennington		
Investigators:	•	BEH/NTT		Subregion (MLRA or LRR): MLRA 56					State:	MN
Soil Unit:	175A					NWI Classification:]	
Landform:	Depression				cal Relief: LC				Sample Point:	w-154n44w32-j2
Slope (%):	0 - 2%		Latitude: 48.		Longitude: -96		Datum:		1	
	•	nditions on the site		-	ar? (If no, explain i			□ No	Section:	
Are Vegetation	•	□, or Hydrology	•	•		Are normal circum	istances pre	esent?	Township:	
Are Vegetation			□aturally p	roblematic?		Yes	□ No		Range:	Dir:
SUMMARY O										
Hydrophytic \			Yes				Hydric Soil	s Present?	Yes	
Wetland Hyd	rology Prese	nt?	Yes				Is This Sar	npling Poin	nt Within A W	etland? Yes
Remarks:	The wetland	l is a willow-domin	nated scrub-s	shrub commun	ity adjacent to	a roadside ditch. P	ussy willow	and sedge	species are r	most abundant.
HYDROLOGY	Y									
		cators (Chack all	that apply: I	Minimum of on	e primary or ty	wo secondary requir	ed).			
Primary:	• •	Cators (Crieck all	triat apply, i	viii iii ii di di di	e primary or to	wo secondary requir	eu).	Secondary:		
<u> </u>	A1 - Surface \	Nater			B11 - Salt Crus	t			B6 - Surface S	oil Cracks
	A2 - High Wa			_	B13 - Aquatic F			_		Vegetated Concave Surface
	A3 - Saturatio	n			C1 - Hydrogen	Sulfide Odor			B10 - Drainage	e Patterns
	B1 - Water Ma				C2 - Dry Seaso					Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•				Rhizospheres on Living	Roots (not till		C8 - Crayfish E	
	B3 - Drift Dep B4 - Algal Ma				C4 - Presence C7 - Thin Muck	of Reduced Iron		□	D2 - Geomorp	N Visible on Aerial Imagery
	B5 - Iron Dep				Other (Explain)			✓	D5 - FAC-Neut	
	•	n Visible on Aerial Im	nagery	_	Ctrior (Explain)					aved Hummocks (LRR F)
✓	B9 - Water-St									,
Field Observ	ations:									
Surface Wate		Yes 🗆	Dep	th:	(in.)					
Water Table		Yes	Dep		(in.)		Wetland H	lydrology l	Present?	Y
Saturation Pr		Yes ☑	Dep		(in.)					
Cataration	CSCITE:	100 —	Бор	(iii						
	1 15 ((
		tream gauge, moni		erial photos, pre		ons), if available:				
Describe Reco		etream gauge, moni ed leaves were ob		erial photos, pre		ons), if available:				
Remarks:				erial photos, pre		ons), if available:				
Remarks:	Water-stain	ed leaves were ob	oserved.		evious inspection					
Remarks: SOILS Profile Descri	Water-stain ption (Descri	ed leaves were ob	eeded to doc	ument the indi	evious inspection	m the absence of in				
Remarks: SOILS Profile Descri	Water-stain ption (Descri	ed leaves were ob	eeded to doc	ument the indi	evious inspection					
Remarks: SOILS Profile Descri	Water-stain ption (Descri	ed leaves were ob be to the depth ne etion, RM=Reduced Ma	eeded to doc	ument the indi	evious inspections in the confirmation of confirmations in the confirmation of confirmation of the confirm	m the absence of in PL=Pore Lining, M=Matri				
Remarks: SOILS Profile Descri (Type: C=Concen	Water-stain ption (Descri	ed leaves were ob be to the depth ne etion, RM=Reduced Ma Matrix	eeded to doc atrix, CS=Cove	ument the indicent of the control of	evious inspections in cator or confirence in cator or confirence in cation:	m the absence of in PL=Pore Lining, M=Matri Mottles	x)	Touture		Domonika
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-1 1-6 6-11	water-stain ption (Descri	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 2/1 2/1	eeded to doc atrix, CS=Cove	ument the indicated Sand Control (1000)	evious inspections in cator or confirence in cator or confirence in cation:	m the absence of in PL=Pore Lining, M=Matri Mottles	x)	MP MMI SCL	fine sandy	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-1 1-6 6-11 11-15 11-15 15-21 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_5Y Hue_5Y Ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mul A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S2 - 2.5 cm M S3 - 5 cm Mul S4 - Sandy G	be to the depth ne etion, RM=Reduced Marix Matrix Color (Moist) 2/1 2/1 4/1 6/1 6/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to doc atrix, CS=Cove	ument the indicated Sand Color (Incolor (Incolor Sand Color (Incolor Sand Sand Sand Sand Sand Sand Sand Sand	cator or confirements; Location: Moist) Moist) edox Matrix Mucky Mineral Eleyed Matrix Matrix ark Surface Dark Surface epressions ains Depressions	m the absence of in PL=Pore Lining, M=Matri Mottles % Type □ S (MLRA 72, 73 of LRR Hydric Soi	Location	MP MMI SCL SCL LFS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	fine sandy for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetated or problematic.	ESOIIS ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: w-154n44w32-j2 L3R Sample Point: **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft. radius) **Dominance Test Worksheet** Species Name % Cover Ind.Status **Dominant** 1. **FACW** Salix discolor 10 2. Salix eriocephala 5 **FACW** Number of Dominant Species that are OBL, FACW, or FAC: 5 (A) 3. 4. Total Number of Dominant Species Across All Strata: 5 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: OBL spp. ___ 10. x 1 =FACW spp. 115 Total Cover = 15 x 2 =FAC spp. 8 x 3 =FACU spp. 0 Sapling/Shrub Stratum (Plot size: 15 ft. radius) x 4 =0 **FACW** 55 UPL spp. 0 x = 51. Salix discolor 2. **FACW** 20 Salix eriocephala 3. Ν OBL 10 Total 191 (A) 322 Salix petiolaris 4. 10 Ν **FACW** Cornus alba 5. Ν FAC 5 Prevalence Index = B/A = 1.686 Acer negundo 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Rapid Test for Hydrophytic Vegetation 10. Dominance Test is > 50% Total Cover = 100 Prevalence Index is ≤ 3.0 * Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft. radius) Problem Hydrophytic Vegetation (Explain) * OBL 45 1. Carex pellita 2. Ν **FACW** * Indicators of hydric soil and wetland hydrology must be 15 Carex sartwellii present, unless disturbed or problematic. 3. 10 Ν OBL Glyceria striata **Definitions of Vegetation Strata:** 4. Ν FAC Solidago gigantea Ν **OBL** 5. Symphyotrichum puniceum 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. 9. 10. 11. 12. **Herb** - All herbaceous (non-woody) plants, regardless of size. 13. 14. Woody Vines - All woody vines, regardless of height. 15. Total Cover = 76 Woody Vine Stratum (Plot size: 30 ft. radius) 2. 3. Hydrophytic Vegetation Present? Y 5. 4. Total Cover = Scattered, tree-sized willows are present. The shrub layer is dense, with primarily pussy willow and heart-leaved willow. The herbaceous layer is dominated by Remarks: woolly sedge. **Additional Remarks:**