WETLAND DETERMINATION DATA FORM Great Plains Region

Drain at/Oitar											Deter	00/04/40	
Project/Site:		L3R									Date:	06/24/13	
Applicant:		Enbridge									County:	Marshall	
Investigators	NTT/KRG					Subregior	ח (MLRA	or LRR):	MLRA 56	State:	MN		
Soil Unit:	I15A							Classification:			1		
Landform:	Depression										Sample Point	: w-156n46w34-a2	
		Latitude: 48.297177					ocal Relief: CL Longitude: -96.560330 Datum:						
Slope (%):		and the second second second							Datum:				
		onditions on the sit				If ? (If no, exp				□ No	Section:		
Are Vegetati	on 🛛 Soi	I □, or Hydrology	⊏significar	ntly dis	sturbed?		Are	e normal circum	istances pre	esent?	Township:		
Are Vegetati	on 🗆 Soi	□, or Hydrology		proble	ematic?			☑ Yes	□ No		Range:	Dir:	
SUMMARY (,								9		
				_							Vee		
Hydrophytic	-		Yes						Hydric Soil				
Wetland Hyc			Yes	_							it Within A W	etland? Yes	
Remarks:	The wetland	d is a wet meadow	v located wit	thin a	roadside o	ditch domir	nated by	Carex pellita a	nd Salix erio	ocephala.			
	V												
HYDROLOG	Y												
Wetland Hy	droloav Ind	icators (Check al	I that apply:	Minin	num of on	e primary o	or two se	econdarv requir	red):				
Primary	•••								00.)1	Secondary:			
	A1 - Surface	\//ater				B11 - Salt C	Crust				B6 - Surface S	Soil Cracks	
_													
	□ A2 - High Water Table			 B13 - Aquatic Fau C1 - Hydrogen Su 							B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio										B10 - Drainage Patterns		
	B1 - Water M					C2 - Dry Se						Rhizospheres on Living Roots (tilled)	
	B2 - Sedimer	•						pheres on Living	Roots (not tille		C8 - Crayfish		
	B3 - Drift Dep					C4 - Preser						n Visible on Aerial Imagery	
	B4 - Algal Ma					C7 - Thin M	luck Surfa	ace			D2 - Geomorp		
	B5 - Iron Dep					Other (Expl	ain)			\checkmark	D5 - FAC-Neu	itral Test	
		on Visible on Aerial In	nagery			•	-				D7 - Frost-He	aved Hummocks (LRR F)	
		tained Leaves	- •										
Field Obser	vations:												
Surface Wat	er Present?	Yes 🛛	De	epth:	4	(in.)					Du = = = ± 0	N .	
Water Table	Present?	Yes 🗆		epth:		í (in.)			Wetland H	iyarology i	Present?	Y	
				·	0							<u> </u>	
Saturation P	resent?	Yes 🛛	De	epth:	0	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec		sileani uauue. mon	illoring weil. a	aerial	photos, pre	evious insp	ections).	if available:					
	,		-		· ·				inches of a		tor		
Describe Rec Remarks:	,	aturated throughou	-		· ·				inches of s	tanding wa	ter.		
	,		-		· ·				inches of s	tanding wa	ter.		
	,		-		· ·				inches of s	tanding wa	ter.		
Remarks: SOILS	Soils are sa	aturated throughou	ut the wetlan	nd. Th	ne site cont	ains scatte	ered are	as with several		tanding wa	ter.		
Remarks: SOILS Profile Descr	Soils are sa	aturated throughou	ut the wetlan	nd. Th	e site cont	ains scatte	ered are	as with several e absence of in	dicators.)	tanding wa	ter.		
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Remarks: SOILS Profile Descr	Soils are sa	ibe to the depth ne	ut the wetlan	nd. Th	e site cont	ains scatte	nfirm the	as with several e absence of in ore Lining, M=Matri	dicators.)	tanding wa	ter.		
Remarks: SOILS Profile Descr	Soils are sa	ibe to the depth ne letion, RM=Reduced M Matrix	eeded to doo latrix, CS=Cove	nd. Th cume ered/Co	ent the indicated Sand (cator or co Grains; Locati	nfirm the ion: PL=Po Mottle	as with several e absence of in ore Lining, M=Matri	dicators.)	tanding wa	ter.		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are sa	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	nd. Th	ent the indicent oated Sand C Color (I ators are r 5 - Sandy R	cator or co Grains; Locati Moist)	nfirm the ion: PL=Po Mottle	as with several e absence of in ore Lining, M=Matri es Type	dicators.) ×) Location	Texture <u>Indicators f</u> A9 - 1 cm M	or Problemati	<u>c Soils¹</u>	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w34-a2
VEGETATIO	N (Species identified in all uppercase ar	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. <u>30</u> x 1 = <u>30</u>
	Total Cover =	0			FACW spp. 20 x 2 = 40
			FACW spp.20x2 =40FAC spp.0x3 =0		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 40 $x 4 = 160$
1.	Salix eriocephala	20	Y	FACW	UPL spp. 0 $x 5 = 0$
2.		-			
3.					Total <mark>90</mark> (A) <mark>230</mark> (B)
4.					
5.					Prevalence Index = B/A = 2.556
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.	<u> </u>				Rapid Test for Hydrophytic Vegetation
10.					
10.	 Total Cavar	20			
	Total Cover =	20	_		$X = \frac{X}{2} $ Prevalence Index is $\leq 3.0 *$
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	30	<u>Y</u>	OBL	
2.	Elymus repens	30	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Poa pratensis	10	N	FACU	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
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 =	70			
			_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1					
2.					
3.					Hydrophytic Vocatation Procent?
	<u> </u>				Hydrophytic Vegetation Present? Y
5.	1				
4.	Tatal Cavar	0			
Domortes	Total Cover =				
Remarks:	The wetland is dominated by Carex pellita an	na Salix eri	ocephala.		
Additional F	Remarks:				