WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date: 09/23/14
Applicant:	~•	Enbridge NTT/BEH				Subragia			MLRA 56		County: <u>Marshall</u> State: <u>MN</u>
Investigators Soil Unit:	i24A		I			Sublegio	•	A or LRR): I Classification:	MILKA 30		
Landform:	Depression)			Lo	cal Relief:					Sample Point: w-155n45w34-f1
Slope (%):	8 - 15%		Latitude: 48			Longitude:			Datum:]
		onditions on the site			•	ar? (If no, exp					Section:
Are Vegetati		I □, or Hydrology	•	-			Are	e normal circum	-	ent?	Township:
Are Vegetati		I □, or Hydrology	Laturany	΄ ριου	lematic			⊠ Yes	□ No		Range: Dir:
Hydrophytic			Ye	es					Hydric Soil	s Present?	Yes
Wetland Hyd	-			es							nt Within A Wetland? Yes
Remarks:		d is a wet meadow	located wi	ithin a	a mowed ro	adside dit	ch and d				
HYDROLOG	iΥ										
-		licators (Check all	that apply	/; Mini	imum of on	e primary	or two se	econdary require	ed):		
Primary	<u>/:</u> A1 - Surface	\//ator			п	B11 - Salt (Cruet			Secondary:	<u>:</u> B6 - Surface Soil Cracks
	A1 - Surface A2 - High Wa					B13 - Aqua		l			B8 - Sparsely Vegetated Concave Surface
	A3 - Saturation	on				C1 - Hydro	ogen Sulfid	de Odor			B10 - Drainage Patterns
	B1 - Water M B2 - Sedimei					C2 - Dry Se C3 - Oxidiz		ater Table spheres on Living F	Roots (not tille	4 D	C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows
	B3 - Drift De	posits				C4 - Prese	ence of Re	educed Iron			C9 - Saturation Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M		ace			D2 - Geomorphic Position
	B5 - Iron Dep B7 - Inundati	oosits on Visible on Aerial Im	aderv			Other (Exp	lain)				D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)
		Stained Leaves	~ <u>_</u>								,
Field Obser	vations:										
Surface Wat				Pepth:		(in.)			Wetland H	vdrology	Present? Y
Water Table		Yes		epth:		_ (in.)				ya.e.e.gy	
Saturation P		Yes 🗆		Pepth:		(in.)					
		stream gauge, moni									
Remarks:	Remarks: No primary hydrology indicators are present. Wetland hydrology is assumed based on hydrophytic vegetation and landscape position.										id landscape position.
SOILS Profile Descr	intion (Desci	ibe to the depth ne	reded to de		ant the indi	actor or co	opfirm th	a absonce of in	diantore)		
		letion, RM=Reduced Ma									
		Matrix					Mottle				
Depth (In.)		Color (Moist)		%	Color (I	Moist)	%	Туре	Location	Texture	Remarks
				—		<u> </u>					
				\rightarrow		<u> </u>					
				\rightarrow		<u> </u>		++			<u> </u>
				-+		<u> </u>		++			<u> </u>
		1				<u> </u>		++			
NRCS Hydr	ric Soil Field	Indicators (ch	ieck here i	if indic	cators are n	not presen	t):				
				_					_		for Problematic Soils ¹
	A1- Histosol	sinodon			S5 - Sandy R						/luck (LRR I, J) t Prairie Redox (LRR F, G, H)
 A2 - Histic Epipedon A3 - Black Histic 				••							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 □ A9 - 1 cm Muck (LRR FGH) □ F6 - Redox Dark Surface 								F18 - Reduc	ced Vertic Parent Material		
· · · · · ·				Fo - Redox D F7 - Depleted						/ Shallow Dark Surface	
□ A12 - Thick Dark Surface □ F8 - Redox Depressions □ Other (Explain in Remarks)											
 S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) 											
		ucky Peat or Peat (LR								¹ Indicators of h	hydrophytic vegetation and wetland hydrology must be present,
			,								ed or problematic.
	S4 - Sandy G	Bieyed Matrix									
Restrictive Laye					Depth:			Hydric Soi	I Present?	Y	
	er Type	· 	the location	ion wi	•		Soils ar	-			- e position and hydrophytic vegetation.

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Project/Site:	: L3R				Sample Point: w-155n45w34-f1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)	0/ 001/07	Deminent	Ind Ctatus	Dominance Test Worksheet
1	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	
1.					Number of Deminent Organize that are ODL EACING as EAC: $2 = (A)$
2.					Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (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: <u>100.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp X 1 =0
	Total Cover =	0			FACW spp. 85 $x 2 = 170$
	-		_		FAC spp. 10 X $3 = 30$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20
<u>1.</u>					UPL spp. 0 $x 5 = 0$
2.					
3.					Total 100 (A) 220 (B)
4.					
5.					Provalance Index - P/A - 2200
					Prevalence Index = B/A = 2.200
6.					
7.					I hadron hartie Menstetien Indiantener
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover = _	0	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Spartina pectinata	35	Y	FACW	
2.	Carex sartwellii	30	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Phalaris arundinacea	20	Y	FACW	present, unless disturbed or problematic.
4.	Solidago gigantea	10	N	FAC	Definitions of Vegetation Strata:
5.	Phleum pratense	5	N	FACU	
6		0			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					······································
					Service a Charte Woody plants loss than 3 in DBH, regardless of height
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.	J				Hydrophytic Vegetation Present? Y
5.					
4.	Tatal Cavar	0			
	Total Cover =	0			
Remarks:		ie cord gra	iss, reed o	canary gra	ass, and Sartwell's sedge with a mixture of other plants commonly found within
	roadside ditches in the region.				
Additional F	Remarks:				