WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators		L3R Enbridge NTT/BEH			Subregio		or LRR):	MLRA 56		Date:09/24/14County:MarshallState:MN		
Soil Unit:	I70A				_Sublegio	•	I Classification:					
Landform:	Rise			Lo	ocal Relief:					Sample Point: u-154n45w2-b1		
Slope (%):	3 - 7%		Latitude: 48.		Longitude:			Datum:				
		nditions on the sit		•				☑ Yes		Section:		
Are Vegetatio		□, or Hydrology	•	•		Are	e normal circum	-	esent?	Township:		
Are Vegetation		□, or Hydrology		problematic?			⊠ Yes	□ No		Range: Dir:		
Hydrophytic Vegetation Present? No Hydric Soils Present? No												
										nt Within A Wetland? No		
Remarks: The upland point is located in a quaking aspen forest dominated by quaking aspen and Pennsylvania sedge.												
HYDROLOG	Y											
Secondary: Primary: A1 - Surface Water B11 - Salt Crust B6 - Surface Soil Cracks A2 - High Water Table B13 - Aquatic Fauna B6 - Surface Soil Cracks A3 - Saturation C1 - Hydrogen Sulfide Odor B10 - Drainage Patterns B2 - Sediment Deposits C3 - Oxidized Rhizospheres on Living Roots (not tills C8 - Crayfish Burrows B3 - Drift Deposits C4 - Presence of Reduced Iron C9 - Saturation visible on Aerial Imagery B4 - Algal Mat or Crust Other (Explain) D2 - Geomorphic Position B7 - Inundation Visible on Aerial Imagery Other (Explain) D7 - Frost-Heaved Hummocks (LRR F) B9 - Water-Stained Leaves B9 - Water-Stained Leaves D7 - Frost-Heaved Hummocks (LRR F)												
Field Observations: Surface Water Present? Yes Depth: (in.) Water Table Present? Yes Depth: (in.) Saturation Present? Yes Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Metland Hydrology indicators are present. Remarks: No wetland hydrology indicators are present.												
Soils												
	iption (Descri	be to the depth ne	eeded to doo	cument the inc	licator or co	onfirm the	e absence of in	dicators.)				
		etion, RM=Reduced M										
						N / - ++			Τ	1		
Dopth (In)		Matrix	0	% Color	(Maiat)	Mottle		Location	Toxturo	Bomarka		
Depth (In.) 0-10	Hue_10YR	Color (Moist)		00	(Moist)	70	Туре	Location	Texture SCL	Remarks		
10-10	Hue_10YR	3/2		00					SCL			
10-20		572							JUL			
NRCS Hydr	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mud A11 - Deplete A12 - Thick D S1 - Sandy Mi S2 - 2.5 cm M	e	 indicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F7 - Deplete F8 - Redox F16 - High F 	Redox d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surfa Depressions	al x ace	⊡ .RA 72, 73 of LRR	Indicators for Problematic Soils ¹ A9 - 1 cm Muck (LRR I, J) A16 - Coast Prairie Redox (LRR F, G, H) S7 - Dark Surface (LRR G) F16 - High Plains Depressions (LRR H, outside MLRA 72, 73) F18 - Reduced Vertic TF2 - Red Parent Material TF12 - Very Shallow Dark Surface Other (Explain in Remarks) A 72, 73 of LRR H)					
	S3 - 5 cm Mu S4 - Sandy Gl	cky Peat or Peat (LR										
	S3 - 5 cm Mu S4 - Sandy Gl	cky Peat or Peat (LR		Depth):		Hydric Soi	il Present?	unless disturbe			

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Project/Site:	: L3R				Sample Point: u-154n45w2-b1				
VEGETATIO		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.	Populus tremuloides	50	Y	FAC					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (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: 20.0% (A/B)				
7. o					Drevelence Index Werkeheet				
8.	-				Prevalence Index Worksheet				
<u>9.</u> 10.					Total % Cover of: Multiply by:				
10.	 Total Cover =	50			$OBL spp. \qquad 0 \qquad x \ 1 = \qquad 0 \qquad FACW(spp. \qquad 0 \qquad x \ 2 = \qquad 0$				
					$\begin{bmatrix} FACVV \text{ spp.} & U \\ FAC \text{ spp.} & U \\ FAC \text{ spp.} & SO \\ FAC \text{ spp.} & SO \\ SO$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACW spp. 0 x 2 = 0 FAC spp. 50 x 3 = 150 FACU spp. 35 x 4 = 140				
Sapling/Shrub 3	Prunus virginiana	15	Y	FACU	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
2.	Prunus virginiana	5	Y	FACU	$- \frac{1}{20} - \frac{1}{20$				
3.			<u> </u>	17.00	Total 110 (A) 415 (B)				
4.									
5.					Prevalence Index = B/A = 3.773				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.	-]				Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	 Total Cover =	20			$\frac{1}{2} = \frac{1}{2} $				
					Morphological Adaptations (Explain) *				
Herb Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Carex pensylvanica	25	Y	NI					
2.	Amphicarpaea bracteata	15	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.					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.					1				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.					1				
11.					1				
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 =	40			1				
			_						
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =	0							
Remarks: The wetland vegetation is dominated by quaking aspen.									
	-	-							
Additional R	Remarks:								