WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators		L3R Enbridge BEH/NTT			Subregio	n (MLR)	A or LRR):	MLRA 56		Date:09/25/14County:MarshallState:MN	
Soil Unit:	I707A					•	T Classification				
Landform:	Footslope				ocal Relief:	CL				Sample Point: u-154n45w11-a2	
Slope (%):	3 - 7%		Latitude: 48.		Longitude:			Datum			
	•	onditions on the sit						☑ Yes		Section:	
Are Vegetation		I ☑, or Hydrology I □, or Hydrology	•	tly disturbed?	,	Ar	e normal circur ☑ Yes	nstances pr	esent?	Township: Range: Dir:	
SUMMARY C			platurally p							Nange. Dii.	
Hydrophytic '			No					Hydric Soi	Is Present?	? No	
Wetland Hyd	•		No							nt Within A Wetland? No	
Remarks: Upland sample point in a soybean field, upslope from a seasonally-flooded basin. Relict hydric soil is present, but no other wetland indicators were observed											
HYDROLOG											
-	•••	icators (Check al	I that apply;	Minimum of c	one primary	or two s	econdary requi	red):	a		
Primary: Secondary: A1 - Surface Water B11 - Salt Crust B6 - Surface Soil Cracks A2 - High Water Table B13 - Aquatic Fauna B8 - Sparsely Vegetated Concave Surface A3 - Saturation C1 - Hydrogen Sulfide Odor B10 - Drainage Patterns B1 - Water Marks C2 - Dry Season Water Table B10 - Orainage Patterns B2 - Sediment Deposits C3 - Oxidized Rhizospheres on Living Roots (not tille C3 - Oxidized Rhizospheres on Living Roots (not tille B3 - Drift Deposits C4 - Presence of Reduced Iron C9 - Saturation Visible on Aerial Imagery B5 - Iron Deposits 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: Wetland Hydrology Present? N											
Remarks:		or secondary hyd					, li avaliavi c .				
	i to princi y	er beechaary rija	reregiear mai								
SOILS											
		ibe to the depth no etion, RM=Reduced N									
							Ole Lining, M-Mat				
		Matrix				Mott	es				
Depth (In.)		Color (Moist)	%	6 Color	(Moist)	%	Туре	Location	Texture	Remarks	
0-10	Hue_10YR		10						С		
10-21	Hue_2.5Y	6/2	8			15	C	М	С		
				Hue_7.5Y	'R 5/8	5	С	М	С		
	ia Sail Field	 Indicators (a)	haak hara if i	indicatore are		.+).	V				
A2 - Histic EpipedonS6 - StA3 - Black HisticF1 - LoA4 - Hydrogen SulfideF2 - LoA5 - Stratified Layers (LRR F)F3 - DeA9 - 1 cm Muck (LRR FGH)F6 - ReA11 - Depleted Below Dark SurfaceF7 - DeA12 - Thick Dark SurfaceF8 - Re				 S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F7 - Deplete F8 - Redox 	Indicator Indicator ipped Matrix ipped Matrix amy Mucky Mineral amy Gleyed Matrix ipoleted Matrix ipoleted Matrix ipoleted Matrix ipoleted Dark Surface ipo					for Problematic Soils ¹ Muck (LRR I, J) St Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) uced Vertic Parent Material y Shallow Dark Surface lain in Remarks) hydrophytic vegetation and wetland hydrology must be present oed or problematic.	
Restrictive Laye	r Type:			Dept	h:		Hydric Soil Present? N				
									- be a calcie borizon. The profile does not mos		
Remarks: Soil is black clay underlain by light-colored clay with abundant redox concentrations; the lower layer appears to be a calcic horizon. The profile does not meet the definition of a depleted matrix, but redox concentrations suggest this is a relict hydric soil.											

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Project/Site:	L3R			Sample Point: u-154n45w11-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: 0 (A)					
3.									
4.				Total Number of Dominant Species Across All Strata: 1 (B)					
5.									
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)					
7.									
8.				Prevalence Index Worksheet					
9.				Total % Cover of: Multiply by:					
10.				$OBL spp. \qquad 0 \qquad x \ 1 = \qquad 0$					
	Total Cover =	0		FACW spp. 0 $x 2 = 0$					
				OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)			$FACU \text{ spp.} \qquad 0 \qquad x 4 = 0$					
1.				UPL spp. 75 X 5 = 375					
2.									
3.				Total 75 (A) 375 (B)					
4.									
5.				Prevalence Index = B/A = <u>5.000</u>					
6.									
7.									
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) *					
Herb Stratum (Plot size: 5 ft. radius)			Problem Hydrophytic Vegetation (Explain) *					
1.	Glycine max	75 Y	NI						
2.				* 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.									
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 =	75							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.				Hydrophytic Vegetation Present? N					
5.									
4.									
	Total Cover =	0							
Remarks: Sample site dominated by cultivated soybean.									
Additional F) om arke :								
Additional F									