## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:	l65A Talf	L3R Enbridge BJC/RAJ		Subregion (MLRA or LRR): MLRA 56 NWI Classification: PEMA Local Relief: LL 48.2761111 Longitude: -96.562462 Datum:						Date:09/17/14County:MarshallState:MNSample Point:u-155n46w3-c1	
Slope (%): Are climatic/h	0 - 2% hydrologic co	onditions on the site	Latitude: 48.2 typical for the					<u>Datum:</u> ☑ Yes	□ No	Section:	
Are Vegetation	on 🗵 Soil	I ☑, or Hydrology	□significantl	y disturbed?		1	e normal circum	-	esent?	Township:	
Are Vegetation		l □, or Hydrology	Daturally pr	oblematic?			□ Yes	⊠ No		Range: Dir:	
Hydrophytic V			No					Hvdric Soi	ls Present?	No	
Wetland Hyd	-		No		_					nt Within A Wetland? <b>No</b>	
Remarks: An upland point in a cultivated field planted to corn. The vegetation is disturbed from tillage and herbicide use, and the soil is disturbed from tillage. Though the point is within an NWI polygon, no indicators of wetland conditions are present.											
HYDROLOGY											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Secondary:   Primary: 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 C3 - Oxidized Rhizospheres on Living Roots (not till   B2 - Sediment Deposits C3 - Oxidized Rhizospheres on Living Roots (not till C8 - Crayfish Burrows   B3 - Drift Deposits C7 - Thin Muck Surface D2 - Geomorphic Position   B5 - Iron Deposits Other (Explain) D2 - Geomorphic Position   B7 - Inundation Visible on Aerial Imagery D4 + (Explain) D5 - FAC-Neutral Test   B9 - Water-Stained Leaves B9 - Water-Stained Leaves D7 - Frost-Heaved Hummocks (LRR F)											
Field Observations: Ves Depth: (in.) Wetland Hydrology Present? N   Surface Water Present? Yes Depth: (in.) (in.) Metland Hydrology Present? N   Water Table Present? Yes Depth: (in.) (in.) (in.) Metland Hydrology Present? N   Saturation Present? Yes Depth: (in.) (in.) (in.) Metland Hydrology Present? N   Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Image: Stream gauge for the stream									Present? N		
Remarks: No indicators of wetland hydrology were observed.											
SOILS Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)											
		Matrix				Mottl	<u></u>				
Depth (In.)		Color (Moist)	%	Color	(Moiet)		63		Texture	Remarks	
0-12					(10051)	%	Type	Location	IEXUIE	Nelliaiks	
	Hue_10YR	· /	100			%	Туре	Location	LFS	Remarks	
12-18	Hue_10YR	2/1		)		%	Туре	Location			
12-18		2/1	100	)		%	Туре	Location	LFS		
12-18		2/1	100	)		% 	Type		LFS		
12-18		2/1	100	)		% 	Type		LFS		
NRCS Hydr	Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	2/1 5/3 bipedon stic n Sulfide Layers (LRR F) ick (LRR FGH) ed Below Dark Surface Dark Surface lucky Mineral Aucky Peat or Peat (LF	2R G, H)	dicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F7 - Deplete F8 - Redox	not presen Redox d Matrix Mucky Miner Gleyed Matri ed Matrix Dark Surface ed Dark Surface	al x ace	  ☑ .RA 72, 73 of LRR		LFS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	For Problematic Soils <sup>1</sup> Iuck (LRR I, J)   Prairie Redox (LRR F, G, H)   urface (LRR G)   Plains Depressions (LRR H, outside MLRA 72, 73)   ced Vertic   Parent Material   Shallow Dark Surface   ain in Remarks)	
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Project/Site:	L3R				Sample Point: u-155n46w3-c1				
VEGETATION		are non-native	species.)						
Tree Stratum (	Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Species Marrie	<u>% Cover</u>	Dominant	<u>mu.status</u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.									
4.		1			Total Number of Dominant Species Across All Strata: 1 (B)				
5.	]	1							
6.	J	1			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.	]								
8.					Prevalence Index Worksheet				
9.		1			Total % Cover of: Multiply by:				
10.	J				$OBL spp. \qquad 0 \qquad x \ 1 = 0$				
	Total Cover =	= 0			FACW spp. 0 $x 2 = 0$				
					OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.2x4 =8				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $2$ x 4 = $8$				
1.	Ulmus pumila	1	Ν	UPL	UPL spp. 91 X 5 = $455$				
2.	í								
3.	[				Total <mark>93</mark> (A) <u>463</u> (B)				
4.	[								
5.					Prevalence Index = B/A = <b>4.978</b>				
6.									
7.		1							
8.					Hydrophytic Vegetation Indicators:				
9.		]			Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	= 1			Prevalence Index is $\leq 3.0 *$				
					Morphological Adaptations (Explain) *				
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Zea mays	90	Y	NI					
2.	Amaranthus retroflexus	1	Ν	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Artemisia biennis	1	Ν	FACU	present, unless disturbed or problematic.				
4. [					Definitions of Vegetation Strata:				
5. [									
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
8.									
9.					<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.									
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	92							
Woody Vine Str	atum (Plot size: 30 ft. radius)								
1.	1								
2.	1								
3.	1				Hydrophytic Vegetation Present? N				
5.									
4.	Takaton	^							
Damarilar	Total Cover :	= 0							
Remarks:	The upland is dominated by healthy corn.								
Additional Remarks:									