WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:	I24A Rise	L3R Enbridge KRG/NTT			_ ocal Relief:	NW : <mark>VL</mark>	A or LRR): I Classification:			Date:07/31/14County:MarshallState:MNSample Point:u-155n46w2-a1
Slope (%): Are climatic/l Are Vegetation Are Vegetation	on 🛛 Soi	nditions on the sit □, or Hydrology □, or Hydrology	□significant	his time of ye ly disturbed?		plain in rem		Datum: ☑ Yes nstances pre □ No	□ No	Section: Township: Range: Dir:
SUMMARY C										
Hydrophytic	•		No		_				ls Present?	
Wetland Hyd			No		1.1					t Within A Wetland? No
Remarks:	ragweed.	point is located at	t the edge of	a soybean fie	eld and adja	acent to a	a small roadside	e ditch wetla	and. Vegeta	ation is dominated by sweetclover and
HYDROLOG										
	A1 - Surface A2 - High Wa A3 - Saturatio B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatio	ter Table on arks it Deposits oosits t or Crust			B11 - Salt B13 - Aqua C1 - Hydro C2 - Dry S C3 - Oxidiz C4 - Prese C7 - Thin N	Crust atic Fauna ogen Sulfic eason Wa zed Rhizos ence of Re Muck Surfa	de Odor ater Table spheres on Living educed Iron		e	 B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)
Field Observer Surface Water Water Table Saturation Pro- Describe Rect	er Present? Present? resent?	Yes □ Yes □ Yes □	Dept	h: h:	_ (in.) _ (in.) _ (in.) revious insp	pections),	, if available:	Wetland H	lydrology l	Present? N
Remarks:	No indicato	rs of wetland hydr	ology were ol	oserved.						
Profile Descri		ibe to the depth ne etion, RM=Reduced M								
		Matrix				N / - ++				
Donth (In)		Matrix	%	Color	(Maint)	Mottl %		Location	Toxturo	Bemerke
Depth (In.) 0-10	Hue_10YR	Color (Moist)	10		(Moist)	70	Туре	Location	Texture SL	Remarks
10-10	Hue_10YR		10						SL Q	
10-10		5/5		,					0	
NRCS Hydr	 A1- Histosol A2 - Histic Epipedon A3 - Black Histic A4 - Hydrogen Sulfide A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH) A11 - Depleted Below Dark Surface A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix 				S5 - Sandy Redox A9 - S6 - Stripped Matrix A16 F1 - Loamy Mucky Mineral S7 - F2 - Loamy Gleyed Matrix F16 F3 - Depleted Matrix F16 F6 - Redox Dark Surface TF2 F7 - Depleted Dark Surface TF1 F8 - Redox Depressions Othe F16 - High Plains Depressions (MLRA 72, 73 of LRR H) ¹ India					or Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) eed Vertic arent Material Shallow Dark Surface ain in Remarks)
	A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	eark Surface ucky Mineral Jucky Peat or Peat (L cky Peat or Peat (LR leyed Matrix	נ בRR G, H)	F8 - Redox F16 - High F	Plains Depres			₹ H)	¹ Indicators of h unless disturbe	ydrophytic vegetation and wetland hydrology must be present, ed or problematic.
	A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G r Type:	eark Surface ucky Mineral Jucky Peat or Peat (L cky Peat or Peat (LR leyed Matrix	[_RR G, H) R F)	F8 - Redox F16 - High F	Plains Depres	ssions (ML		₹ H)	¹ Indicators of h unless disturbe	ydrophytic vegetation and wetland hydrology must be present,

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Project/Site:	e: L3R				Sample Point: u-155n46w2-a1
VEGETATIO	· · ·	e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				Deminence Test Werksheet
1	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
<u> </u>			·		$-\frac{1}{2}$
					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata:2 (B)
5.					
6. 7					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					Drevelance Index Warkshoot
8.					Prevalence Index Worksheet
9. 10.					<u>Total % Cover of:</u> <u>Multiply by:</u>
10.	 Total Cover =	0			OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 10 x 3 = 30 FACU spp. 75 x 4 = 300
					$FAC vv spp. \underline{v} x 2 - \underline{v}$
Sanling/Shrub	Stratum (Diataiza: 15 ft radius)				$ = \frac{10}{500} \times 5 = \frac{30}{500} $
Sapling/Shrub 3	Stratum (Plot size: 15 ft. radius)				$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
2.					$-$ 0FL spp. <u>20</u> \times 0 – <u>100</u>
3.					$- \frac{1}{105} (\Lambda) \frac{130}{(R)} (R)$
					Total(A)(B)
<u>4.</u> 5.			·		$= \frac{1}{2} Provolonos Index = P/A = \frac{1}{2} 005$
<u> </u>	-				Prevalence Index = B/A = 4.095
	-				
7. 8.					
<u> </u>			·		Hydrophytic Vegetation Indicators:
9. 10.					Rapid Test for Hydrophytic Vegetation
10.	 Total Cover =				Dominance Test is > 50%
		0			$\underline{\qquad} Prevalence Index is \leq 3.0 *$
				·	Morphological Adaptations (Explain) *
· · · · · · · · · · · · · · · · · · ·	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Melilotus officinalis	35	Y	FACU	
2.	Ambrosia artemisiifolia	35	Y	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Glycine max	20	<u>N</u>	NI	
4.	Sonchus arvensis	5	<u>N</u>	FAC	Definitions of Vegetation Strata:
5.	Plantago major	5	<u>N</u>	FAC	
6	Elymus repens	5	N	FACU	
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
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 =	105			1
Woody Vine St	Stratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
·	Total Cover =	0			
Remarks:	Vegetation is dominated by sweetclover and r				
1		1-3			
 					
Additional R					
	Cemarks:				
1					
1					
1					