WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit: Landform:	s: 159A Depression	L3R Enbridge MRK/OTG		47.000		Subregion (MLRA or LRR): MLRA 56 NWI Classification: Local Relief: CC Longitude: -96.1472951667 Datum:					Date:09/30/14County:PenningtonState:MNSample Point:w-152n43w10-f3
Are Vegetati	on 🛛 Soi	onditions on the sit	[′] ⊏signific	or this	s time of yea disturbed?		lain in rema	_{arks)} e normal circum	-	□ No	Section: Township:
Are Vegetati		I □, or Hydrology		y proc	piematic?			⊠ Yes	□ No		Range: Dir:
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes											
Wetland Hyc	-			Yes		-					t Within A Wetland? Yes
Remarks: Wetland sample point is a fallow field that has been recently tilled, most likely being prepared to farm next year. Remnants of cattails and rush species are observed scattered about.											
HYDROLOGY											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): <u>Secondary:</u> <u>A1 - Surface Water</u> <u>A2 - High Water Table</u> <u>A2 - High Water Table</u> <u>A3 - Saturation</u> <u>B1 - Water Marks</u> <u>B1 - Water Marks</u> <u>B2 - Sectiment Deposits</u> <u>B3 - Drift Deposits</u> <u>B3 - Drift Deposits</u> <u>B4 - Algal Mat or Crust</u> <u>B5 - Iron Deposits</u> <u>B7 - Inundation Visible on Aerial Imagery</u> <u>B7 - Inundation Visible on Aerial Imagery</u> <u>B7 - Statured Leaves</u> <u>B7 - Water-Stained Leaves </u>											
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? Y									Present? Y		
Remarks:		mple point is location	-								
				U	•						
SOILS											
		ibe to the depth ne letion, RM=Reduced M									
(1)por e concer				010104		014110, 2004		ere			
_		Matrix					Mottle	es			
Depth (In.)		Color (Moist)		%	Color (Maist)	0/			Toyturo	
0-2	Hue_10YR						%	Туре	Location	Texture	Remarks
2-10				100			70	Туре	Location	MMI	Remarks
	Hue_10YR	. 2/1		100						MMI SC	Remarks
10-20	Hue_10YR Hue_5Y			100	Hue_10YR		15	Type C	Location M	MMI	Remarks
10-20		. 2/1		100						MMI SC	Remarks
10-20		. 2/1		100						MMI SC	Remarks
		2/1 6/2	heck here	100 85		5/6	15		M	MMI SC C	or Problematic Soils ¹
	Hue_5Y Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M	2/1 6/2 I Indicators (cl bipedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surfac Dark Surface fucky Mineral Mucky Peat or Peat (L ucky Peat or Peat (L	ce LRR G, H)	100 85 if ind □ □ □ □ □	Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	5/6 5/6 not present edox Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surfa pepressions	15 t):	С	M	MMI SC C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	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)
NRCS Hydr	Hue_5Y Hue_5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	2/1 6/2 I Indicators (ch bipedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface Jucky Mineral Mucky Peat or Peat (L Jucky Peat or Peat (L Sleyed Matrix	ce LRR G, H)	100 85 if ind □ □ □ □ □	Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	5/6 5/6 not present edox Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surfa pepressions ains Depres	15 t):	C	M 	MMI SC C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	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) ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hydrology must be present,
NRCS Hydr	Hue_5Y Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G er Type:	2/1 6/2 I Indicators (ch bipedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface Jucky Mineral Mucky Peat or Peat (LR Jucky Peat or Peat (LR Sleyed Matrix	ce LRR G, H) RR F)	100 85 if ind □ □ □ □	Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl Depth:	5/6 5/6 not present edox Matrix Mucky Minera Bleyed Matrix Matrix Dark Surface Dark Surface Dark Surface Dark Surface	15 t): ce sions (ML	RA 72, 73 of LRR	■ M ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	MMI SC C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	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) ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hydrology must be present,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-152n43w10-f3			
VEGETATIO		are 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>					Number of Deminent Species that are OPL EACING or EAC: 1 (A)			
3.		1			Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A)			
4.	<u> </u>				Total Number of Dominant Species Across All Strata: 1 (B)			
5.		1						
6.		1			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.		1						
8.	<u> </u>	1			Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.		1			OBL spp. 50 x 1 = 50			
	Total Cover	= 0			OBL spp.50x1 =50FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.0x4 =0			
					FAC spp. 0 $x 3 = 0$			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$			
1.					UPL spp. 0 $x 5 = 0$			
2.								
3.					Total <u>50</u> (A) <u>50</u> (B)			
4.								
5.]			Prevalence Index = $B/A = $ 1.000			
6.]						
7.								
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) *			
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Typha angustifolia	50	Y	OBL				
2.		1			* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.								
4.					Definitions of Vegetation Strata:			
5.					Tree			
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7. 8.					neight (DDF), regardless of height.			
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
9. 10.					Saping/Sinub - Woody plants loss than o in. 251, Togaraloss of height.			
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
10.	Total Cover	= 50						
		0						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
	Total Cover							
Remarks:	Wetland sample point is dominated by narr	owleaf catta	il.					
Additional Remarks:								