WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge								Date: 09/25/14 County: Marshall	
Investigators		BEH/NTT		Subregion (MLRA or LRR): MLRA 56						State: MN	
Soil Unit:	I707A NWI Classification:										
Landform:										Sample Point: u-154n45w2-e2	
Slope (%):	3 - 7%	nditions on the sit	Latitude: 48.1		-			Datum: ☑ Yes	□ No	Continu	
Are Vegetation		unions on the sit		2	al ? (If no, exp		e normal circun			Section: Township:	
Are Vegetation		□, or Hydrology	•	•			e normai circui		6361111	Range: Dir:	
SUMMARY C							_ 100	- 110			
Hydrophytic V	Vegetation Pr	esent?	No					Hydric Soi	Is Present?	' No	
Wetland Hyd			No						mpling Poir	nt Within A Wetland? No	
Remarks: The upland sample point is located in a soybean field, upslope from a seasonally-flooded wetland.											
HYDROLOG	Y										
Wetland Hy	drology Indi	cators (Check all	I that apply; N	Minimum of on	e primary	or two se	econdary requi	red):			
Primary:				_		Omer			Secondary:		
	A1 - Surface V A2 - High Wate				B11 - Salt B13 - Aqua					B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface	
	A3 - Saturation	า			C1 - Hydro	gen Sulfid	le Odor			B10 - Drainage Patterns	
	B1 - Water Ma				C2 - Dry S			Dooto (not till		C3 - Oxidized Rhizospheres on Living Roots (tilled)	
	B2 - Sediment B3 - Drift Depo	•			C3 - Oxidiz C4 - Prese		spheres on Living duced Iron	Roots (not till		C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery	
	B4 - Algal Mat				C7 - Thin N					D2 - Geomorphic Position	
	B5 - Iron Depo				Other (Exp	olain)				D5 - FAC-Neutral Test	
	B9 - Water-Sta	n Visible on Aerial Im ained Leaves	nagery							D7 - Frost-Heaved Hummocks (LRR F)	
Field Observ	vations:										
Surface Wate	er Present?	Yes 🗆	Dep	th:	(in.)			Wotland H	lydrology	Present? N	
Water Table		Yes 🛛	Dep		(in.)			VVC IIAITU I	iyulology		
Saturation Pr	resent?	Yes 🗆	Dep	th:	_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:	Remarks: No primary or secondary hydrological indicators were observed.										
SOILS											
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
		be to the depth ne tion, RM=Reduced M									
		tion, RM=Reduced M				tion: PL=Po	ore Lining, M=Matr		1		
(Type: C=Concer	tration, D=Deple	tion, RM=Reduced M Matrix	latrix, CS=Cover	red/Coated Sand	Grains; Loca	tion: PL=Po Mottle	ore Lining, M=Matr es	ix)	Texture	Remarks	
(Type: C=Concer Depth (In.)	tration, D=Deple	tion, RM=Reduced M Matrix Color (Moist)	latrix, CS=Cover	color (Grains; Loca	tion: PL=Po	ore Lining, M=Matr		Texture	Remarks	
(Type: C=Concer Depth (In.) 0-13	htration, D=Deple	tion, RM=Reduced M Matrix Color (Moist) 2/1	latrix, CS=Cover % 10	Color (Grains; Loca	tion: PL=Po Mottle	ore Lining, M=Matr es	ix)	SICL	Remarks	
(Type: C=Concer Depth (In.)	Hue_10YR Hue_10YR	tion, RM=Reduced M Matrix Color (Moist)	latrix, CS=Cover	Color (Grains; Loca Moist)	tion: PL=Po Mottle	ore Lining, M=Matr es	ix)	SICL SCL	Remarks	
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(Type: C=Concer Depth (In.) 0-13 13-18 18-25 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi	tion, RM=Reduced M Matrix Color (Moist) 2/1 3/2 7/2 Indicators (ch	latrix, CS=Cover	Color (Color (Color (Hue_10YR Hue_7.5YR Hue_7.5YR S5 - Sandy R S5 - Sandy R S6 - Stripped	Grains; Loca Moist) 6/8 5/8 not presen edox Matrix	tion: PL=Po Mottle % 10 5 t):	ore Lining, M=Matr es Type C C	ix) Location M M	SICL SCL SIC SIC Indicators f A9 - 1 cm M A16 - Coast	for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n45w2-e2
VEGETATIO		e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	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.0x1 =0FACW spp.1x2 =2FAC spp.1x3 =3FACU spp.0x4 =0
	Total Cover =	0	FACW spp. 1 $X 2 = 2$		
					FAC spp. 1 X 3 = 3
	Stratum (Plot size: 15 ft. radius)				$FACU \text{ spp.} \qquad 0 \qquad X \ 4 = \qquad 0$
1.					UPL spp. 70 X 5 = 350
2.					
3.					Total <u>72</u> (A) <u>355</u> (B)
4.					
5.					Prevalence Index = B/A = <u>4.931</u>
6.					
7.					Hydrophytic Vegetation Indicators
8.					Hydrophytic Vegetation Indicators:
9. 10.					Rapid Test for Hydrophytic Vegetation
10.	 Total Cover	0			Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is $\leq 3.0^{*}$
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)	70	V	N.U.	Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	70	Y	NI	* Indiactors of budgic soil and watered budgets and part bo
2.	Solidago gigantea	1	<u>N</u>	FAC	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Rumex stenophyllus	1	N	FACW	
4.					Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					height (DDH), regardless of height.
8.					Conditional Character Woody plants loss than 2 in DPH, regardless of height
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					User All berbasseus (non weady) plants, regardless of size
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					4
14.					Weedy Vince All woody vince regardless of height
15.	Trici O.	70			Woody Vines - All woody vines, regardless of height.
	Total Cover =	72			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	Tatal Oast				
Damarlar	Total Cover =				
Remarks:	Sample site dominated by cultivated soybear	า.			
Additional R	Remarks:				