WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/25/14
Applicant:		Enbridge								County:	Marshall
Investigators		EAB/NTT/KRG			_Subregior	`	or LRR):	MLRA 56		State:	MN
Soil Unit:	I133A			_			Classification:				
Landform:	Toeslope				cal Relief:					Sample Point:	u-158n48w15-b1
Slope (%):	0 - 2%		Latitude: 48.50		Longitude:			Datum:			
		nditions on the site			ar? (If no, exp				☑ No	Section:	
Are Vegetation		☑, or Hydrology	•			Are	e normal circum	-	esent?	Township:	
Are Vegetation		, ,	□aturally pro	blematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \			No		-				s Present?		
Wetland Hyd			Yes							t Within A We	etland? No
Remarks:	The upland	is located within a t	tilled and plai	nted wheat fi	eld. The fie	eld drains	s into an adjace	ent roadside	e ditch.		
HYDROLOG'	Υ										
Wetland Hy	drology Indi	cators (Check all t	that apply; Mi	nimum of on	e primary	or two se	econdary requir	red):			
Primary:		•	1137		, ,		, ,	,	Secondary:		
	A1 - Surface V				B11 - Salt (B6 - Surface S	
	A2 - High Wat				B13 - Aqua						Vegetated Concave Surface
☑	A3 - Saturation				C1 - Hydrog					B10 - Drainage	
	B1 - Water Ma B2 - Sediment				C2 - Dry Se		spheres on Living	Roots (not tille		C8 - Crayfish E	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•			C4 - Preser			110013 (1101 11111	Ì	-	n Visible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin M				_	D2 - Geomorpi	<u> </u>
	B5 - Iron Depo				Other (Expl	lain)				D5 - FAC-Neut	
		n Visible on Aerial Ima	agery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
- :	4.1						T				
Field Observ					<i>,</i> , ,						
Surface Wate		Yes □	Depth		_ (in.)			Wetland H	lydrology l	Present?	Υ
Water Table		Yes	Depth		_ (in.)				.ya.o.ogy .		<u> </u>
Saturation Pr	resent?	Yes ☑	Depth	: 0	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s	tream gauge, monito	<u> </u>		<u> </u>	ections),	if available:				
Describe Reco	<u> </u>	tream gauge, monito	oring well, aer	ial photos, pr	<u> </u>	ections),	if available:				
	<u> </u>		oring well, aer	ial photos, pr	<u> </u>	ections),	if available:				
	<u> </u>		oring well, aer	ial photos, pr	<u> </u>	ections),	if available:				
Remarks: SOILS Profile Descri	The soils are	e saturated due to	oring well, aer	rains.	evious insp	onfirm the	e absence of in				
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Remarks: SOILS Profile Descri	The soils are	e saturated due to be to the depth nee etion, RM=Reduced Mat	oring well, aer	rains.	evious insp	onfirm the	e absence of in ore Lining, M=Matri				
Remarks: SOILS Profile Descri (Type: C=Concer	The soils are	e saturated due to be to the depth need to the depth need to the Matrix	oring well, aer recent heavy eded to docur trix, CS=Covered	rains. ment the indi	evious insp cator or co Grains; Locat	onfirm the ion: PL=Po	e absence of in ore Lining, M=Matri	(x)	T		Dansada
Remarks: SOILS Profile Descri (Type: C=Concer	The soils are ption (Descriptration, D=Deple	be to the depth need to the to the depth need to the Matrix Color (Moist)	oring well, aer recent heavy eded to docur trix, CS=Covered	rains. ment the indi	evious insp cator or co Grains; Locat Moist)	onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matri es Type	Location	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11	The soils are ption (Descriptration, D=Deple Hue_10YR	be to the depth need to to the depth need to the Matrix Matrix Color (Moist) 2/1	oring well, aer recent heavy eded to docur trix, CS=Covered % 95	rains. ment the indi	evious insp cator or co Grains; Locat Moist)	onfirm the ion: PL=Po	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	The soils are ption (Descriptration, D=Deple	be to the depth need to the to the depth need to the Matrix Color (Moist)	oring well, aer recent heavy eded to docur trix, CS=Covered	rains. ment the indi	evious insp cator or co Grains; Locat Moist)	onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matri es Type	Location	Texture C C		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-18 NRCS Hydr	The soils are ption (Descriptration, D=Deplete Deplete	be to the depth need to the depth need to the depth need to the depth need to make the depth need to t	eded to docur trix, CS=Covered	rains. ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Locat Moist) 4/1 not present edox Matrix	Mottle % 5	e absence of in ore Lining, M=Matri es Type C	Location	Indicators f A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-18 NRCS Hydr	The soils are ption (Descriptration, D=Deplete Intration, D=Deplete Intr	e saturated due to be to the depth need to the	oring well, aer recent heavy eded to docur trix, CS=Covered % 95 100 eck here if inc	rains. ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Locat Moist) 4/1 not present ledox Matrix Mucky Minera	Mottle % 5	e absence of in ore Lining, M=Matri es Type C	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St	luck (LRR I, J) Prairie Redox (L urface (LRR G)	Soils ¹ RR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-18 NRCS Hydr	tration, D=Depleteration, D=Depleteratio	be to the depth need to the depth need to the depth need to the depth need to make the dept	eded to docur trix, CS=Covered % 95 100 eck here if inc	rains. ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or co Grains; Locat Moist) 4/1 not present ledox Matrix Mucky Minera Gleyed Matrix	Mottle % 5	e absence of in ore Lining, M=Matri es Type C	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-18 NRCS Hydr	The soils are ption (Descriptration, D=Deplete Intration, D=Deplete Intr	e saturated due to be to the depth need ion, RM=Reduced Mark Matrix Color (Moist) 2/1 4/1 Indicators (check in Sulfide Layers (LRR F)	oring well, aer recent heavy eded to docur trix, CS=Covered % 95 100 eck here if inc	rains. ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	cator or co Grains; Locat Moist) 4/1 not present dedox Matrix Mucky Minera Gleyed Matrix Matrix	Mottle Mottle 5 t):	e absence of in ore Lining, M=Matri es Type C	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression eed Vertic	Soils ¹ RR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-18 NRCS Hydr	The soils are ption (Descriptration, D=Deplete Intration, D=Deplete Intr	e saturated due to be to the depth need ion, RM=Reduced Mark Matrix Color (Moist) 2/1 4/1 Indicators (check is Sulfide Layers (LRR F) ck (LRR FGH)	oring well, aer recent heavy eded to docur trix, CS=Covered 95 100 eck here if inc	rains. ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	cator or co Grains; Locat Moist) 4/1 anot present dedox Matrix Mucky Minera Gleyed Matrix Matrix Dark Surface	Mottle % 5 t):	e absence of in ore Lining, M=Matri es Type C	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression red Vertic Parent Material	Soils ¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-18 NRCS Hydr	The soils are ption (Descriptration, D=Depleter A1- Histosol A2 - Histic Epi A3 - Black History A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick District Are provided A12 - Thick District And A12 - Thick District And A13 - Depleter A12 - Thick District A14 - Depleter A12 - Thick District A15 - A15 - A16 - A16 - A16 - A17	be to the depth need to to the depth need to the depth need to the depth need to Matrix Matrix Color (Moist) 2/1 4/1 Indicators (check of Sulfide Layers (LRR FGH) to Below Dark Surface to the surf	oring well, aer recent heavy eded to docur trix, CS=Covered 95 100 eck here if inc	rains. ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	cator or co Grains; Locat Moist) 4/1 not present dedox Matrix Mucky Minera Gleyed Matrix Matrix Dark Surface	Mottle % 5 t):	e absence of in ore Lining, M=Matri es Type C	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression eed Vertic	Soils ¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-158n48w15-b1
-					
VEGETATIO	、 .	e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>oposios rvarno</u>	<u>70 00vci</u>	Dominaria	<u>ma.otatas</u>	
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.		0			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Total Cover =	U	_		OBL spp. 0
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.	Stratum (Flot size: Fort. radius)				UPL spp. $\frac{1}{80}$ $\frac{1}{x} = \frac{4}{400}$
2.					
3.					Total 81 (A) 404 (B)
4.					<u> </u>
5.					Prevalence Index = B/A = 4.988
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Total Cayer	0			Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is ≤ 3.0 *
Llowb Ctroture (District F ft radius)				Morphological Adaptations (Explain) *
1.	Plot size: 5 ft. radius) Triticum aestivum	80	V	NI	Problem Hydrophytic Vegetation (Explain) *
2.	Taraxacum officinale	1	 N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	raraxacum onemaie	<u>'</u>	- 11	17.00	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					7
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.				_	\dashv
14. 15.					Woody Vines - All woody vines, regardless of height.
13.	Total Cover =	81			- vvoody villes - / iii weed, villes, regardless of height.
	Total Cover =	01			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	Takin (Fist sizs)				
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =				
Remarks:	The vegetation is dominated by planted whea	at.			
Additional R	Remarks:				