WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/29/14
Applicant:		Enbridge								County:	Marshall
Investigators	<u> </u>			Subregion (MLRA or LRR):						State:	MN
Soil Unit:	I16F			_			I Classification:				
Landform:	Backslope				ocal Relief:					Sample Point:	u-157n47w16-j2
Slope (%):	0 - 2%		Latitude: 48.4		Longitude:			Datum:		1	
	<u>, </u>	onditions on the site	7 1		ar? (If no, ex		•		□ No	Pr0tected002	
Are Vegetation		□, or Hydrology	•			Are	e normal circum	•	esent?	Township:	
Are Vegetation		□, or Hydrology	□aturally pro	oblematic?			✓ Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic '			No		_				ls Present?		
	drology Prese		No							nt Within A W	
Remarks:	A weedy pla	ant community don	ninated by sm	ooth brome	and locate	d at the	edge of a cultiv	ated field pl	anted to wh	neat. The san	nple point is outside the tilled
	area. No in	dicators of wetland	d conditions a	re present.							
HYDROLOG	Υ										
Wetland Hy	drology Ind	icators (Check all	that apply: M	inimum of o	ne primary	or two s	econdary requi	red):			
Primary	•	ioatoro (orrock an	tilat apply, ivi		io primary	0	ooonaary roquii		Secondary:		
	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainage	
	B1 - Water M				C2 - Dry S			Dooto (not till			Rhizospheres on Living Roots (tilled
	B2 - Sedimen B3 - Drift Dep	•					spheres on Living educed Iron	Roots (not till	·	C8 - Crayfish E	o Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	olain)			_	D5 - FAC-Neut	
	B7 - Inundation	on Visible on Aerial Im	nagery		` .	,				D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
Field Obser	vations:										
Surface Wat	er Present?	Yes □	Depth	n:	(in.)			Wotland L	lydrology l	Procent?	N
Water Table	Present?	Yes □	Depth	n:	(in.)			wetianu r	iyarology i	rieseiit!	
Saturation P	resent?	Yes □	Depth	1:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	stream gauge moni	<u> </u>			ections)	if available:				
			itoring well, ae	rial photos, p		ections),	, if available:				
Describe Rec Remarks:		stream gauge, moni	itoring well, ae	rial photos, p		ections),	if available:				
Remarks:			itoring well, ae	rial photos, p		pections),	, if available:				
Remarks:	No indicato	rs of wetland hydro	itoring well, ae	rial photos, p	revious insp			ndicators)			
Remarks: SOILS Profile Descri	No indicato		itoring well, ae ology are pres	rial photos, pent.	revious insp	onfirm th	e absence of in				
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	itoring well, ae ology are pres	rial photos, pent.	revious insp	onfirm th	e absence of in				
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	itoring well, ae ology are pres	rial photos, pent.	revious insp	onfirm th	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydro ibe to the depth ne etion, RM=Reduced Ma Matrix	itoring well, ae ology are pres	rial photos, pent. ment the income d/Coated Sand	revious insp icator or co Grains; Loca	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydrouse to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, ae ology are presented to docu atrix, CS=Covere	rial photos, pent. ment the income d/Coated Sand	revious insp	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	-		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydrouse to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, ae ology are presented to docu	rial photos, pent. ment the income d/Coated Sand	revious insp icator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	Texture FSL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydrouse to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, ae ology are presented to docu atrix, CS=Covere	rial photos, pent. ment the income d/Coated Sand	revious insp icator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	-		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21	No indicato iption (Descriptration, D=Depl	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	itoring well, ae ology are presented to docu atrix, CS=Covered %	rial photos, peent. ment the incode decorated Sand	icator or co	onfirm th tion: PL=P Mottl	e absence of in fore Lining, M=Matr es Type	ix)	-		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21	No indicato	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	itoring well, ae ology are presented to docu atrix, CS=Covere	ment the inc	icator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	FSL		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21	No indicato iption (Description, D=Deplementation, D=Deplementation) Hue_10YR	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	itoring well, ae ology are presented to docu atrix, CS=Covered %	rial photos, potent. ment the income dicators are	icator or congrains; Local (Moist)	onfirm th tion: PL=P Mottl	e absence of in fore Lining, M=Matr es Type	Location	FSL Indicators f	or Problematic	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	iption (Description, Depoint Intration, Depoint Int	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (chappedon	itoring well, ae ology are presented to docu atrix, CS=Covered %	ment the incode Color Color dicators are S5 - Sandy I S6 - Strippe	icator or congrains; Local (Moist) not presented Matrix	Mottl % tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	No indicato iption (Description, D=Depl Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (chappedon stic	itoring well, ae ology are presented to docu atrix, CS=Covered %	rial photos, potent. ment the incompleted sand Color Color dicators are S5 - Sandy I S6 - Stripper F1 - Loamy	icator or congrains; Loca (Moist) not present Redox d Matrix Mucky Miner	mottl Mottl w tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	iption (Description, Depoint Intration, Depoint Int	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (characters)	itoring well, ae ology are presented to docu atrix, CS=Covered 100	rial photos, potent. ment the inored/Coated Sand Color dicators are S5 - Sandy I S6 - Stripper F1 - Loamy F2 - Loamy	icator or congrains; Loca (Moist) not present Redox d Matrix Mucky Miner Gleyed Matri	mottl Mottl w tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (characters) Sipedon stic in Sulfide I Layers (LRR F)	itoring well, ae ology are presented to docu atrix, CS=Covered %	rial photos, potent. ment the incomplete dicators are S5 - Sandy Incomplete S6 - Stripper F1 - Loamy F2 - Loamy F3 - Deplete	icator or congrains; Loca (Moist) not present definition of Matrix Mucky Miner Gleyed Matrix definition of Matrix	mottl Mottl % t):	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (characters)	itoring well, ae ology are presented to doculatrix, CS=Covered 100	rial photos, potent. ment the inored/Coated Sand Color dicators are S5 - Sandy I S6 - Stripper F1 - Loamy F2 - Loamy	icator or congrains; Loca (Moist) not present Matrix Mucky Miner Gleyed Matrix Dark Surface	mottl Mottl // // // // // // // // // // // // /	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ced Vertic	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (characters) ipedon stic in Sulfide in Sulfide in Layers (LRR F) ick (LRR FGH) ick (LRR FGH) ick (LRR FGH) ick Surface in Surface i	itoring well, ae ology are presented to doculatrix, CS=Covered 100	rial photos, potent. ment the incomplete content cont	revious inspections in cator or configurations; Local (Moist) (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	mottl Mottl // // // // // // // // // // // // /	e absence of incore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (characters) Sipedon Stic In Sulfide Layers (LRR F) Ick (LRR FGH) Ick (LRR FGH) Ick (Below Dark Surface) Ick Surface Iucky Mineral	itoring well, ae ology are presented to doculatrix, CS=Covered 100 neck here if in	rial photos, potent. ment the incomplete content cont	revious inspections in cator or configurations; Local (Moist) (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	mottl Mottl // // // // // // // // // // // // /	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	ibe to the depth neetion, RM=Reduced Matrix Color (Moist) Indicators (characters) Indicators (characters) Indicators (characters) I Layers (LRR F)	itoring well, ae ology are presented to doculatrix, CS=Covered 100 neck here if in the color of	rial photos, potent. ment the incomplete content cont	revious inspections in cator or configurations; Local (Moist) (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	mottl Mottl // // // // // // // // // // // // /	e absence of incore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	ESOILS ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Gurface
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-157n47w16-j2				
VEGETATIO	、 .	re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC:(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.					Tercent or borninant opecies that Are OBE, I AOV, OF AO.				
					Drovolongo Indox Workshoot				
8.					Prevalence Index Worksheet				
9.		0			Total % Cover of: Multiply by:				
10.			OBL spp. 0						
	Total Cover =	= 0	OBL spp. 0						
					FAC spp. $0 X 3 = 0$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp15				
1.					UPL spp. $x = 5 = 425$				
2.									
3.					Total 100 (A) 485 (B)				
4.	,								
5.					Prevalence Index = B/A = 4.850				
6.									
7.		<u> </u>							
		1			Liverantic Veretation Indicators				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	= 0			Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	80	Υ	UPL					
2.	Conyza canadensis	5	N	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Cirsium arvense	5	N	FACU	present, unless disturbed or problematic.				
4.	Galeopsis tetrahit	5	N	FACU	Definitions of Vegetation Strata:				
5.			N	NI	Definitions of Vegetation Strata.				
	Triticum aestivum	5	11	111	-				
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.					†				
14.					1				
15.					Woody Vines - All woody vines, regardless of height.				
15.	Total Causer	400			Two day vines, regardeds or neight.				
	Total Cover =	= 100	_						
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =	= 0							
Remarks:	A weedy field edge dominated by smooth br		onhytic vo	actation is	s not prosent				
Nemaiks.	A weedy field edge dominated by smooth bi	onie. Tryur	opriyac ve	getation is	s not present.				
Additional Remarks:									