WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/17/14	
Applicant:		Enbridge				0 1 .	(1.41.D.)				County:	Pennington	
Investigators		MRK/OTG				_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	19A				1	I D - I' - (I Classification:				4544422.14	
Landform:	Talf 0 - 2%		latituda. 10	0 115		cal Relief:		20670222	Dotum		Sample Point	u-154n44w33-l1	
Slope (%):		onditions on the site	Latitude: 48					52678333	Datum: ☑ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology			disturbed?	ar: (II 110, ex	1	e normal circun			Township:		
Are Vegetation		□, or Hydrology		-				e normal circuit ☑ Yes		536111:	Range:	Dir:	
SUMMARY C			□laturally	prob	nomatio:			E 163	□ 110		Range.	DII.	
Hydrophytic '			No	0					Hydric Soil	ls Present?	No		
Wetland Hyd	•		No.			_					nt Within A W	etland? No	
Remarks:		sample point is lo			ield upslop	e from a w	et mead	low.	io iiio cai	ripinig r on	ic vvicinii / v v	oliana. Ito	
HYDROLOG	Υ												
		icators (Check all	I that apply	· Min	nimum of or	ne primary	or two s	econdary requi	rod):				
Primary		icators (Check all	ι ιπαι αρριγ	, IVIII I	ilitiuiti oi oi	ie primary	or two s	econdary requi	ieu).	Secondary:			
<u> </u>	A1 - Surface	Water				B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa					B13 - Aqua						Vegetated Concave Su	rface
	A3 - Saturation					C1 - Hydro					B10 - Drainag		5 ((())
	B1 - Water M B2 - Sedimer					C2 - Dry S		ater Table spheres on Living	Poots (not till	, –	C3 - Oxidized C8 - Crayfish	Rhizospheres on Living	Roots (tilled)
	B3 - Drift Dep	•						educed Iron	Noots (not till	, –		n Visible on Aerial Imag	ierv
	B4 - Algal Ma					C7 - Thin				_	D2 - Geomorp		,0.,
	B5 - Iron Dep					Other (Exp	olain)				D5 - FAC-Neu		
		on Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR	F)
	B9 - water-S	tained Leaves											
Field Observ	vations												
		Vaa 👨	D	. ماده .		(in)							
Surface Wat		Yes □ Yes □		_		_ (in.) _ (in.)			Wetland H	lydrology	Present?	N	
Water Table Saturation P		Yes □ Yes □		epth: __ epth:		– (in.) (in.)						_	
Saturation	1636111:	100	D6	CDUI.									
						<u> </u>							
	<u> </u>	stream gauge, mon	itoring well,	aeria	al photos, pr	evious insp	pections),	, if available:					
Describe Rec	<u> </u>	stream gauge, moni or secondary hydr	itoring well,	aeria	al photos, pr	evious insp	pections),	, if available:					
Remarks:	<u> </u>		itoring well,	aeria	al photos, pr	evious insp	pections),	, if available:					
Remarks:	No primary	or secondary hydr	itoring well, rological ind	aeria dicat	al photos, pr ors were ob	evious insposerved.	,		edicators \				
Remarks: SOILS Profile Descri	No primary	or secondary hydr	itoring well, rological inc	aeria	al photos, prors were obtained the indicate in	evious insposerved.	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary hydr	itoring well, rological inc	aeria	al photos, prors were obtained the indicate in	evious insposerved.	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary hydr	itoring well, rological inc	aeria	al photos, prors were obtained the indicate in	evious insposerved.	onfirm th	e absence of in ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological be to the depth neetion, RM=Reduced Matrix	rological inceeded to do	aeria	ors were ob ors the indicated Sand	evious insposerved. Cator or congrains; Loca	onfirm th	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological ibe to the depth neetion, RM=Reduced Matrix Color (Moist)	rological inceeded to do	aeria dicat ocum vered/	al photos, prors were obtained the indicate in	evious insposerved. Cator or congrains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr				Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary iption (Descr	or secondary hydrological ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	rological independent of the control	aeria dicat cocum vered/	ors were ob ors the indicated Sand	evious insposerved. Cator or congrains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	SICL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y	or secondary hydrological ibe to the depth neetion, RM=Reduced Matrix Color (Moist)	rological inceeded to do latrix, CS=Cov	aeria dicat cocum vered/	ors were ob ors the indicated Sand	evious insposerved. Cator or congrains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	SICL SIC		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 10-20 NRCS Hydr	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/3 5/1	eeded to do	aeria dicat cocum vered/ % 100 50 50 f indi	ors were object the indicated Sand	evious insposerved. Cator or configurations; Local Moist) not present	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	SICL SIC SIC	or Problemati	,	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 10-20 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black History	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/3 5/1 Indicators (chappedonestic	eeded to do	aeria dicat cocum vered/ % 100 50 f indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F	evious insposerved. Cator or configuration of preserved. Redox I Matrix Mucky Miner	onfirm thation: PL=P Mottl % at):	e absence of in Pore Lining, M=Matr es Type	Location	SICL SIC SIC SIC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox urface (LRR G)	<mark>c Soils¹</mark> (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 10-20 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/3 5/1 Indicators (chapped on stice in Sulfide in Sulfide in Layers (LRR F)	eeded to do	aeria dicat cocum vered/ 100 50 50 f indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C F3 - Depleted	evious insposerved. Cator or configurations; Locations; Locations	monfirm the stion: PL=P Mottl % at ix	e absence of in Pore Lining, M=Matr es Type	Location	SICL SIC SIC SIC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressiced Vertic	<mark>c Soils¹</mark> (LRR F, G, H)	3)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 10-20 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y 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 M	or secondary hydrone ibe to the depth neetion, RM=Reduced Mineral Mutrix Color (Moist) 2/1 6/3 5/1 Indicators (characters)	eeded to do latrix, CS=Covered to do latrix, C	aeria dicat cocum vered/ % 100 50 f indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C F3 - Depleted F6 - Redox E F7 - Depleted F8 - Redox E	evious insposerved. Cator or configuration of present and present	onfirm the tion: PL=P Mottl % at): cal ix eace	es Type	Location	SICL SIC SIC SIC SIC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression Ped Vertic Parent Material Shallow Dark Sain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: u-154n44w33-l1			
VEGETATIO	` '	e 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:1(A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 3 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)			
7.					(. 4 2)			
8.					Prevalence Index Worksheet			
9.					4			
					Total % Cover of: Multiply by:			
10.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	Total Cover =	0			FACW spp. $0 \times 2 = 0$			
					OBL spp. 0			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp40			
1.					UPL spp 50			
2.								
3.					Total 115 (A) 485 (B)			
4.								
5.					Prevalence Index = B/A = 4.217			
6.								
7.								
					Hydrophytic Vogetation 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	50	Υ	UPL				
2.	Solidago canadensis	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Solidago gigantea	25	· ·	FAC	present, unless disturbed or problematic.			
4.		15	N	FACU	Definitions of Vegetation Strata:			
	Lotus corniculatus		IN	PACO	Definitions of Vegetation Strata.			
5.								
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.					1			
13. 14.					1			
					187 - I 187 All woods winds regardless of beingt			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	115						
Woody Vine St	tratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? N			
5.								
4.								
4.	Total Cover =	0						
Damanika								
Remarks:	The upland sample point is dominated by sm	ooth brom	ne, Canada	a goldenro	and glant goldenrod.			
Additional F	Remarks:							