WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/16/14	
Applicant:		Enbridge			0 1 .	/N 41 D /				County:	Pennington	
Investigators: NTT/BEH				Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	127A				I D - I' - (-		I Classification	:			454m4420 h4	
Landform:	Talf 0 - 2%		Latitude: 48.11		cal Relief:		1707	Detum		Sample Point	<u>u-154n44w32-b1</u>	
Slope (%):		onditions on the site			Longitude:			Datum:	□ No	Section:		
Are Vegetation			significantly		ai: (ii 110, exp		e normal circur			Township:		
Are Vegetation			□aturally pro				e normal circui ✓ Yes		CSCIII:	Range:	Dir:	
SUMMARY C			Hatarany pro	bicinatic:			E 163	□ 1 10		range.	Dii.	
Hydrophytic \			No					Hydric Soi	ls Present?	. No		
Wetland Hyd	•		No		_					nt Within A W	etland? No	
Remarks:				dow near the	edge of th	ne field a	and adjacent to				s mainly dominated by	Bromus
	•	Phleum pratense.			3.5			,	3		- · · · · · · · · · · · · · · · · · · ·	
HYDROLOG												
		icators (Check all	that apply: Mi	nimum of on	o primary	or two c	ocondary roqui	rod):				
Primary:	•	icators (Crieck all	triat apply, ivii	illitiatii oi oii	e primary	oi two s	econdary requi	ieu).	Secondary			
<u>- 1 111101 y 1</u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surfa	ce
	A3 - Saturation				C1 - Hydro					B10 - Drainag		
	B1 - Water M				C2 - Dry So			Poots (not till	, 0	C3 - Oxidized C8 - Crayfish	Rhizospheres on Living R	oots (tilled)
	 □ B2 - Sediment Deposits □ B3 - Drift Deposits □ C3 - Oxidized Rhizospheres on Living Roots (not □ C4 - Presence of Reduced Iron 							NOOLS (HOL LIII	, –		n Visible on Aerial Imagery	I
	B4 - Algal Ma				C7 - Thin N				_	D2 - Geomorp		,
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu		
		on Visible on Aerial Ima	agery							D7 - Frost-He	aved Hummocks (LRR F)	
	B9 - water-S	tained Leaves										
Field Observ	vations:											
Surface Water		Yes	Depth		(in)							
Water Table		Yes	Depth:		. (in.) (in.)			Wetland F	lydrology	Present?	N	
Saturation P		Yes	Depth:		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Dagarila a Dag	andad Data /		tanin aall a an	in I m b n t n n m m		\	if a vallable					
	·			• • •	evious insp	ections),	, if available:					
Describe Reco	·	stream gauge, monit hydrology indicator		• • •	evious insp	ections),	, if available:					
Remarks:	·			• • •	evious insp	ections),	, if available:					
Remarks:	No wetland	hydrology indicator	rs are present	i.	·	,		odicators)				
Remarks: SOILS Profile Descri	No wetland	hydrology indicator	rs are present	nent the indi	cator or co	onfirm th	e absence of ir					
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Remarks: SOILS Profile Descri	No wetland	hydrology indicator	rs are present	nent the indi	cator or co	onfirm th	e absence of in Pore Lining, M=Mat					
Remarks: SOILS Profile Descri	No wetland	hydrology indicator ibe to the depth need etion, RM=Reduced Ma	rs are present	nent the indi	cator or co	onfirm th	e absence of in Pore Lining, M=Mat		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicator ibe to the depth need etion, RM=Reduced Ma Matrix Color (Moist)	rs are present eded to docur atrix, CS=Covered	nent the indi	cator or co	onfirm th tion: PL=P Mottl	ne absence of ine Pore Lining, M=Mat	rix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicator ibe to the depth need etion, RM=Reduced Marking Matrix Color (Moist) 2/1	eded to docur	nent the indi	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	ne absence of ine Pore Lining, M=Mat	rix)	Texture CL C	Calcic horizon	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No wetland iption (Descriptration, D=Depl	hydrology indicator ibe to the depth need etion, RM=Reduced Marking Matrix Color (Moist) 2/1	eded to docuratrix, CS=Covered	nent the indi	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Mati es Type	Location	Texture CL C	Calcic horizon	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	No wetland iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	hydrology indicator libe to the depth need etion, RM=Reduced Markix Matrix Color (Moist) 2/1 6/2	eded to docuratrix, CS=Covered	nent the indi	Cator or co Grains; Loca Moist)	Mottl %	e absence of in Pore Lining, M=Mati es Type	Location	Texture CL C	Calcic horizon	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	hydrology indicator ibe to the depth need etion, RM=Reduced Marx Matrix Color (Moist) 2/1 6/2 Indicators (checking the color) ipedon	eded to docuratrix, CS=Covered	Color (Hue_7.5YR S5 - Sandy R S6 - Stripped	Cator or co Grains; Loca Moist) 6/6 not presen edox Matrix	mottl % 5 t):	e absence of in Pore Lining, M=Mati es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast	for Problemati fuck (LRR I, J) Prairie Redox	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicator ibe to the depth need etion, RM=Reduced Markix Color (Moist) 2/1 6/2 Indicators (check the depth need on stice)	eded to docuratrix, CS=Covered	Color (Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N	Cator or co Grains; Loca Moist) 6/6 not presen edox Matrix fucky Miner	mottl Mottl % 5 t):	e absence of in Pore Lining, M=Mati es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicator ibe to the depth need etion, RM=Reduced Marx Matrix Color (Moist) 2/1 6/2 Indicators (checking Sulfide)	eded to docuratrix, CS=Covered 95	Color (Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	Cator or co Grains; Locar Moist) 6/6 not presen edox Matrix flucky Miner	mottl Mottl % 5 t):	e absence of in Pore Lining, M=Mati es Type	Location	Indicators A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	hydrology indicator ibe to the depth need etion, RM=Reduced Marx Matrix Color (Moist) 2/1 6/2 Indicators (checking Sulfide I Layers (LRR F)	eded to docuratrix, CS=Covered	Color (Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	Cator or co Grains; Loca Moist) 6/6 not presen edox Matrix flucky Miner	mottl Mottl % 5 t):	e absence of in Pore Lining, M=Mati es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	c Soils ¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR 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	hydrology indicator ibe to the depth need etion, RM=Reduced Markix Matrix Color (Moist) 2/1 6/2 Indicators (check in Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface park Surface	eded to docuratrix, CS=Covered % 100 95 eck here if income	Color (Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Loca Moist) 6/6 not presen edox Matrix fleyed Matrix I Matrix ark Surface Dark Surface	mottl Mottl % 5 t):	es Type C	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	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-154n44w32-b1						
VEOCTATION											
VEGETATION Tree Stratum ((Species identified in all uppercase are (Plot size: 30 ft. radius)	e non-native	species.)								
Troo otratam (Species Name	% Cover	Dominant	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: 2 (B)						
5.											
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)						
7. 8.					Prevalence Index Worksheet						
9.											
10.					Total % Cover of: OBL spp. 0						
		0	OBL spp. 0								
	-		_		FAC spp.						
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{45}{0}$ $x = \frac{180}{0}$ UPL spp. $\frac{50}{0}$ $x = \frac{50}{0}$						
1.					UPL spp. $50 x 5 = 250$						
2.											
3.					Total 95 (A) 430 (B)						
4.					5						
5.					Prevalence Index = B/A = 4.526						
6. 7.											
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 (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *						
1.	Bromus inermis	50	Υ	UPL							
2.	Phleum pratense	25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be						
3.	Cirsium arvense	15	N	FACU	present, unless disturbed or problematic.						
4.	Trifolium pratense	5	N	FACU	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. 8.				_	neight (DDH), regardless of height.						
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.						
10.					Sapinig/Sin ub - 11 ees) plante lees than 2211, legal alees of helgini						
11.											
12.					Herb - All herbaceous (non-woody) plants, regardless of size.						
13.											
14.											
15.					Woody Vines - All woody vines, regardless of height.						
	Total Cover =	95									
Woody Vine Str	ratum (Plot size: 30 ft. radius)										
1.											
2.					Undraphytic Variation Present?						
3.					Hydrophytic Vegetation Present? N						
5. 4.											
7.	Total Cover =	0									
Remarks:	The upland vegetation is dominated by smooth		and timoth								
			•								
Additional R	temarks:										