WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/25/14	
Applicant:		Enbridge				0 1 .	(1.41.D.)				County:	Pennington	
Investigators		MRK/OTG				_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I16F				1 -	D-1:(I Classification				450-40004	
Landform:	Shoulder 8 - 15%		Latitude: 48	2 026		cal Relief:		00060000	Detuse		Sample Point	u-153n43w29-m1	
Slope (%):		onditions on the site			_			29368333	Datum:	□ No	Section:		
Are Vegetation		□, or Hydrology	7 1			ai: (II 110, ex	_	e normal circun			Township:		
Are Vegetation		□, or Hydrology		-				e normal circuit	□ No	CSCIII:	Range:	Dir:	
SUMMARY C			Hatarany	ргор	icitiatio:			E 163	= 110		Range.	DII.	
Hydrophytic '			No)					Hydric Soil	ls Present?	No		
Wetland Hyd	•		No.			_					t Within A W	etland? No	
Remarks:		sample point is lo			n. upslope	from a har	dwood s	swamp.	io i i ilo Cai	npinig r on		oliana. Ito	
					,								
HYDROLOG	Υ												
		icators (Check all	that annly:	· Min	imum of or	ne nrimary	or two s	econdary requi	red):				
Primary		icators (Crieck all	ι ιπαι αρριу,	, iviii i	iiiiuiii oi oi	ie primary	OI 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 Surface)
	A3 - Saturation					C1 - Hydro					B10 - Drainag		
	B1 - Water M B2 - Sedimer					C2 - Dry S		ater Table spheres on Living	Poots (not till	, –	C3 - Oxidized C8 - Crayfish	Rhizospheres on Living Roc	ots (tilled)
	B3 - Drift Dep	•						educed Iron	NOOLS (HOL LIII)	, –		n Visible on Aerial Imagery	
	B4 - Algal Ma					C7 - Thin N				_	D2 - Geomorp		
	B5 - Iron Dep					Other (Exp	olain)				D5 - FAC-Neu		
		on Visible on Aerial Im	nagery								D7 - Frost-He	aved Hummocks (LRR F)	
	B9 - water-S	tained Leaves											
Field Observ	vations:												
		Vac = □	Da			(in)							
Surface Wat		Yes □ Yes □		· · · · · · · · · · · · · · · · · · ·		_ (in.)			Wetland H	lydrology l	Present?	N	
Water Table		Yes □ Yes □		epth: _		_ (in.) _ (in.)						—	
						<u> </u>							
	·	stream gauge, moni	itoring well,	aeria		evious insp	pections),	, if available:					
Describe Rec	·	stream gauge, moni or secondary hydr	itoring well,	aeria		evious insp	pections),	, if available:					
Remarks:	·		itoring well,	aeria		evious insp	pections),	, if available:					
Remarks:	No primary	or secondary hydro	itoring well, ological inc	aeria dicato	ors were ob	evious insposerved.	,		adicators \				
Remarks: SOILS Profile Descri	No primary	or secondary hydro	itoring well, rological inc	aeria	ors were of	evious insposerved.	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary hydro	itoring well, rological inc	aeria	ors were of	evious insposerved.	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary hydro	itoring well, rological inc	aeria	ors were of	evious insposerved.	onfirm th	ne absence of in Pore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological hydro	itoring well, cological inceeded to do atrix, CS=Cov	aeria	ors were of ent the ind Coated Sand	evious insposerved. icator or co	onfirm th	ne absence of in Pore Lining, M=Matr	rix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological hydro	itoring well, cological ince	aeria dicate ocum vered/0	ors were of	evious insposerved. icator or co	onfirm th	ne absence of in Pore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	No primary iption (Descr	or secondary hydrological hydro	eeded to do atrix, CS=Cov	aeria dicato ocum vered/0	ors were of ent the ind Coated Sand	evious insposerved. icator or co	onfirm th	ne absence of in Pore Lining, M=Matr	rix)	Texture CL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No primary iption (Description, D=Dep	or secondary hydrological hydro	eeded to do atrix, CS=Cov	aeria dicato Dcum vered/0	ent the indicoated Sand	evious insposerved. Cator or configurations; Local Moist)	onfirm th	ne absence of in Pore Lining, M=Matr	rix)	Texture CL C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No primary iption (Descr	or secondary hydrological hydro	eeded to do atrix, CS=Cov	aeria dicato Dcum vered/0	ent the indicoated Sand	evious insposerved. Cator or configurations; Local Moist)	onfirm th	e absence of in Pore Lining, M=Matr es Type	rix)	CL	or Problemati		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	No primary iption (Description, D=Dep	or secondary hydrological hydro	eeded to do atrix, CS=Cov	aeria dicate ocum vered/0 100 f indicate	ent the indicoated Sand Color (evious insposerved. Cator or configurations; Local Moist) not present	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	CL C	or Problemati		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No primary iption (Description, D=Dep Hue_10YR Hue_5Y ric Soil Field A1- Histosol A2 - Histic Ep	or secondary hydrological	eeded to do atrix, CS=Cov	aeria dicate cum vered/v 100 f indic	ent the indicoated Sand Coated Sand Color (cators are S5 - Sandy F S6 - Stripped	evious insposerved. icator or configurations; Local Moist) mot presented.	onfirm thation: PL=P Mottl % at):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	c Soils¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	No primary iption (Description, D=Dep Hue_10YR Hue_5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi	or secondary hydrological	eeded to do atrix, CS=Cov	aeria dicate ocum vered/0 100 f indic	ent the indicoated Sand Color (cators are S5 - Sandy F S6 - Stripped F1 - Loamy N	evious insposerved. Cator or configurations; Locations; Locations	onfirm thation: PL=P Mottl % at):	e absence of in Pore 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)	c Soils ¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch	eeded to do atrix, CS=Cov	aeria dicato ocum vered/0 100 f indic	cators are	evious insposerved. Cator or configuration of present and present	onfirm the stion: PL=P Mottl % at): ral ix	e absence of in Pore 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 Depressi ed Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch sipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface park Surface	eeded to do atrix, CS=Cov	aeria dicate ocum vered/0 100 f indic	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 configurations; Locate Moist) Moist) Redox Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Dark Surface Depressions	onfirm the stion: PL=P Mottl % at ix acce	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 Depressi ed Vertic	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	No primary iption (Description, D=Dep Hue_10YR Hue_5Y A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch sipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface park Surface ucky Mineral Mucky Peat or Peat (LR	eeded to do atrix, CS=Cov	aeria dicate ocum vered/0 100 f indic	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 configurations; Locate Moist) Moist) Redox Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Dark Surface Depressions	onfirm the stion: PL=P Mottl % at ix acce	es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressiced Vertic Parent Material Shallow Dark Shallow Dark Shallow	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)	pe present,
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-153n43w29-m1			
VEGETATIO		are non-native	species.)					
Tree Stratum ((Plot size: 30 ft. radius)				Dansinanaa Taat Warlahaat			
4	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.	Tilia americana	30	Υ	FACU	N			
2.		-			Number of Dominant Species that are OBL, FACW, or FAC:(A)			
3.								
4.					Total Number of Dominant Species Across All Strata:4(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. $0 x 1 = 0$ FACW spp. $0 x 2 = 0$			
	Total Cover =	= 30			FACW spp. $0 x 2 = 0$			
					FAC spp. $0 X 3 = 0$			
Sapling/Shrub \$	Stratum (Plot size: 15 ft. radius)				FACU spp. 90 $x 4 = 360$			
1.	Rhamnus cathartica	60	Υ	FACU	UPL spp55			
2.	Zanthoxylum americanum	40	Υ	UPL				
3.					Total 145 (A) 635 (B)			
4.		1						
5.					Prevalence Index = $B/A = 4.379$			
6.		1						
7.								
8.		1			Hydrophytic Vegetation Indicators:			
9.		-			Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	 Total Cover =	= 100			Prevalence Index is ≤ 3.0 *			
					 Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Carex pensylvanica	15	Υ	NI	rrobioin riyaropriyae v ogotation (Explain)			
2.			<u> </u>		* Indicators of hydric soil and wetland hydrology must be			
3.	J				present, unless disturbed or problematic.			
4.					Definitions of Vegetation Strata:			
5.					Definitions of Vegetation Strata.			
6					Tree - Weeds plants 2 in 77 Sam) or mars in diameter at breest			
7.		1			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
8.		1			noight (= = 1 /), regulated at height			
		1			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
9.		1			Sapiring/Shrub - Woody Plants less than 5 lin. DBH, Tegardless of fleight.			
10.								
11.					I I and All borboscous (non woody) plants, regardless of size			
12.		1			Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.					All and the second state of the second state o			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	= 15						
Woody Vine St	ratum (Plot size: 30 ft. radius)	=						
1.								
2.								
3.				_	Hydrophytic Vegetation Present? N			
5.								
4.								
	Total Cover =	= 0						
Remarks: The upland sample point canopy is dominated by basswood. The shrub layer is predominantly European buckthorn and prickly ash. The ground layer is dominated by Pennsylvania sedge.								
Additional Remarks:								
1								