WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/15/14	_
Applicant:	Enbridge									County:	Pennington	_
Investigators				Subregion (MLRA or LRR): MLRA 56					State:	MN	-	
Soil Unit:	175A						lassification	:		_	.=	
Landform:	Shoulder				ocal Relief:					Sample Point	u-154n44w31-l4	
Slope (%):	8 - 15%	. P.C d	Latitude: 48.			-96.350756		Datum:		4		
		nditions on the site							□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are no	ormal circun	-	esent?	Township:		
Are Vegetation		□, or Hydrology	Daturally p	roblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C									L D			
Hydrophytic \	•		No		<u> </u>				ls Present?		lettered No.	
Wetland Hyd			No no observador	la cata d unal				is This Sai	mpling Poir	nt Within A W	etland? No	
Remarks:	rne upiano	sample point is or	n a shoulder	located upsi	ope from a r	iardwood si	wamp.					
HADBOI OC.	V											
HYDROLOG												
_		icators (Check all	I that apply;	Minimum of c	ne primary	or two seco	ndary requi	red):				
Primary:	_			_	- D44 O 1/4	.			Secondary:			
	□ A1 - Surface Water□ A2 - High Water Table				B11 - Salt (B6 - Surface S		Surface
	A3 - Saturation			□ B13 - Aquatic Fauna □ □ C1 - Hydrogen Sulfide Odor □ □ C2 - Dry Season Water Table □						B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B1 - Water M											
	B2 - Sedimen	•					eres on Living	Roots (not till	€ □	C8 - Crayfish		
	B3 - Drift Dep					nce of Reduc					n Visible on Aerial Ima	agery
	B4 - Algal Ma B5 - Iron Dep				Other (Expl	Muck Surface				D2 - Geomorp D5 - FAC-Neu		
		on Visible on Aerial Im	nagery		i Other (Expi	iairi)					aved Hummocks (LRF	R F)
	B9 - Water-St										(,
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Dep	oth:	(in.)			\Motlond L	lvalua la ave	Dracent?	NI.	
Water Table	Present?	Yes □	Dep	oth:	(in.)			wettand r	lydrology	Present?	N	
Saturation Pr	resent?	Yes □	Dep	oth:	(in.)							
					—							
Describe Reco	orded Data (s	stream gauge, mon	itoring well, a	erial photos, r		ections), if a	available:					
	·	or secondary bydr			revious insp	pections), if a	available:					
Describe Reco	·	stream gauge, moni or secondary hydr			revious insp	ections), if a	available:					
Remarks:	·				revious insp	ections), if a	available:					
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological indi	icators were c	previous insposerved.	onfirm the a	bsence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological indi	icators were c	previous insposerved.	onfirm the a	bsence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary hydr be to the depth ne etion, RM=Reduced M	rological indi	icators were c	previous insposerved.	onfirm the al	bsence of ir					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological be to the depth neetion, RM=Reduced Matrix	rological indi	cument the incered/Coated San	previous insposerved. dicator or cod Grains; Locat	onfirm the altion: PL=Pore Mottles	bsence of ir Lining, M=Matr	rix)				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	or secondary hydrological be to the depth neetion, RM=Reduced Matrix Color (Moist)	rological indi	cument the incred/Coated Sand	previous insposerved.	onfirm the al	bsence of ir		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	No primary iption (Descrintration, D=Depl	or secondary hydrobe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	rological indi	cument the incred/Coated Sand	previous insposerved. dicator or cod Grains; Locat	onfirm the altion: PL=Pore Mottles	bsence of ir Lining, M=Matr	rix)	SL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12	No primary iption (Descriptration, D=Depl	or secondary hydrological be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3	rological indi	cument the incred/Coated Sand	previous insposerved. dicator or cod Grains; Locat	onfirm the altion: PL=Pore Mottles	bsence of ir Lining, M=Matr	rix)	SL SCL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	No primary iption (Descrintration, D=Depl	or secondary hydrological be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3	rological indi	cument the incred/Coated Sand	previous insposerved. dicator or cod Grains; Locat	onfirm the altion: PL=Pore Mottles	bsence of ir Lining, M=Matr	rix)	SL	coarse sand and		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12	No primary iption (Descriptration, D=Depl	or secondary hydrological be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3	rological indi	cument the incred/Coated Sand	previous insposerved. dicator or cod Grains; Locat	onfirm the altion: PL=Pore Mottles	bsence of ir Lining, M=Matr	rix)	SL SCL	coarse sand and		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12	No primary iption (Descriptration, D=Depl	or secondary hydrological be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3	rological indi	cument the incred/Coated Sand	previous insposerved. dicator or cod Grains; Locat	onfirm the altion: PL=Pore Mottles	bsence of ir Lining, M=Matr	rix)	SL SCL	coarse sand and		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12	No primary iption (Descriptration, D=Depl	or secondary hydrological be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3	rological indi	cument the incred/Coated Sand	previous insposerved. dicator or cod Grains; Locat	onfirm the altion: PL=Pore Mottles	bsence of ir Lining, M=Matr	rix)	SL SCL	coarse sand and		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15	No primary iption (Descriptration, D=Depl	or secondary hydrological beto the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1	rological indi	cument the incred/Coated Sand	previous insposerved. dicator or cod Grains; Locat (Moist)	Mottles	bsence of ir Lining, M=Matr	rix)	SL SCL	coarse sand and		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15	No primary iption (Description, D=Deplementation, D=Deplementation	or secondary hydrological be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1	rological indi	cument the incered/Coated Sand	previous insposerved. dicator or cod Grains; Locat (Moist)	Mottles	bsence of ir Lining, M=Matr	Location	SL SCL SCL	for Problemati	rocks prominent	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	or secondary hydrological beto the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1 Indicators (ch	rological indi	cument the incered/Coated Sandon Color Col	corevious insposerved. dicator or condicator or condicato	Mottles	bsence of ir Lining, M=Matr	Location	SL SCL SCL Indicators 1	for Problemati Muck (LRR I, J)	rocks prominent c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	or secondary hydrological betto the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1 Indicators (chain)	rological indi	cument the incered/Coated Sand Color	corevious insposerved. dicator or condicator or condicato	Mottles %	bsence of ir Lining, M=Matr	Location	SL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast	for Problemati fuck (LRR I, J) t Prairie Redox	rocks prominent c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1 Indicators (characters)	rological indi	cument the incered/Coated Sand Color	content of the previous insposerved. In the previous insposerved.	Mottles // // // // // // // // // // // // //	bsence of ir Lining, M=Matr	Location	SL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati Muck (LRR I, J) t Prairie Redox urface (LRR G)	rocks prominent c Soils ¹ (LRR F, G, H)	70)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1 Indicators (chain in Sulfide)	rological indi	cument the incered/Coated Sand Color	content of the conten	Mottles // // // // // // // // // // // // //	bsence of ir Lining, M=Matr	Location	SL SCL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemati fuck (LRR I, J) t Prairie Redox turface (LRR G)	rocks prominent c Soils ¹ (LRR F, G, H)	. 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1 Indicators (characters)	rological indi	icators were comment the incored/Coated Sandon Color C	content of the conten	Mottles % tion: PL=Pore	bsence of ir Lining, M=Matr	Location	SL SCL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemati fuck (LRR I, J) t Prairie Redox turface (LRR G)	rocks prominent c Soils ¹ (LRR F, G, H)	. 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR 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	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1 Indicators (chair) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) cd Below Dark Surface	rological indi	indicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet	content of the conten	Mottles Mottles tion: PL=Pore	bsence of ir Lining, M=Matr	Location	SL SCL SCL SCL Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problemati Muck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressioned Vertic	rocks prominent c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72,	. 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	Hue_10YR 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	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) indicators (LRR FGH)	rological indi	cument the incered/Coated Sand Color	corevious insponentation of content of conte	Mottles Mottles tion: PL=Pore	bsence of ir Lining, M=Mati	Location	SL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati Muck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material	rocks prominent c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72,	. 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) ind Below Dark Surface ark Surface ucky Mineral	rological indi	cument the incered/Coated Sand Color	content of the conten	Mottles Mottles tion: PL=Pore	bsence of ir Lining, M=Mati	Location	SL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati Muck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S	rocks prominent c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72,	.73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	Hue_10YR Hue_10YR 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 S1 - Sandy M S2 - 2.5 cm M	or secondary hydrometric be to the depth neetion, RM=Reduced Mineral Mucky Peat or Peat (Layers (LRR F) to the surface work Surface work Surface work Surface work Peat or Peat (Layers (LRR F)).	rological indi eeded to doc latrix, CS=Cove 9/ 10 10 10 heck here if i	cument the incered/Coated Sand Color	corevious insponentation of content of conte	Mottles Mottles tion: PL=Pore	bsence of ir Lining, M=Mati	Location	SL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemati Muck (LRR I, J) t Prairie Redox Jurface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Sain in Remarks)	rocks prominent c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72,	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-12 12-15 NRCS Hydr	Hue_10YR 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 S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	or secondary hydrometric method be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/3 2/1 Indicators (characteristic method by the color of the c	rological indi eeded to doc latrix, CS=Cove 9/ 10 10 10 heck here if i	cument the incered/Coated Sand Color	corevious insponentation of content of conte	Mottles Mottles tion: PL=Pore	bsence of ir Lining, M=Mati	Location	SL SCL SCL SCL Indicators of R A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problemati Muck (LRR I, J) t Prairie Redox Jurface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Sain in Remarks)	rocks prominent c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72,	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w31-I4				
VEGETATIO	` ` '	re non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	80	Y	FAC	Dominance rest worksheet				
2.	r oparas tromarolaes		•	TAC	Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)				
3.	J				(71)				
4.					Total Number of Dominant Species Across All Strata: 6 (B)				
5.					Total Number of Borninant Opecies Across All Strata.				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)				
7.					(A/B)				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0				
	Total Cover =	80			FACW spp. $\frac{10}{10}$ \times $2 = \frac{20}{10}$				
	rotal Gover				FAC spp. $\frac{100}{100}$ $\times 3 = \frac{20}{300}$				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{75}{75}$ $\times 4 = \frac{300}{100}$				
1.	Populus tremuloides	15	Υ	FAC	$UPL spp. \qquad 0 \qquad x 5 = \qquad 0$				
2.	Quercus macrocarpa	5	Υ	FACU					
3.	Fraxinus pennsylvanica	5	Υ	FAC	Total 185 (A) 620 (B)				
4.									
5.					Prevalence Index = B/A = 3.351				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	25			Prevalence Index is ≤ 3.0 *				
				Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Poa pratensis	50	Υ	FACU					
2.	Aralia nudicaulis	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Calamagrostis canadensis	5	N	FACW	present, unless disturbed or problematic.				
4.	Phalaris arundinacea	5	N	FACW	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.									
14.				,					
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	80							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.					Hydrophytic Vegetation Present?N				
3.									
5.									
4.	T 1 1 2								
Dagge	Total Cover =				inting a greathy of guarding a great burn and burn a large burn and burn a large bu				
Remarks:	The upland canopy is dominated by quaking predominantly Kentucky bluegrass and wild	•		ayer cons	isting mostly of quaking aspen, bur oak and green ash. Ground cover is				
Additional									
Additional R	Kemarks:								
1									