WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/26/14
Applicant:		Enbridge								County:	Pennington
Investigators							,	MLRA 56		State:	MN
Soil Unit:	148A						I Classification	:		1_	
Landform:	Depression		10.44		cal Relief:		705			Sample Point:	<u>w-154n44w19-c1</u>
Slope (%):	3 - 7%		Latitude: 48.14		Longitude:			Datum:			
		nditions on the site			al : (If no, exp			☑ Yes	□ No	Section:	
Are Vegetation	•	□, or Hydrology				Ale	e normal circun ☑ Yes	nstances pro □ No	esent?	Township:	Die
Are Vegetation		□, or Hydrology	Haturally pro	blematic?				□ INO		Range:	Dir:
Hydrophytic '			Yes					Hydric Soi	ls Present?	Voc	
Wetland Hyd	_		Yes		_					nt Within A W	etland? Yes
Remarks:				n a large we	tland com	nley that	connects to a				n includes quaking aspen, woolly
Tromants.		reed canary grass	•	ir a large we	tiana com	picx triat		Shanow mai	on. Domine	ant vegetation	Thiolades qualking aspen, weeny
HYDROLOG		rood carrary grace									
		icators (Check all	that apply; Mi	nimum of or	ne primary	or two s	econdary requi	red):			
<u>Primary</u>	<u>":</u>	,	11 37				, ,	,	Secondary:		
	A1 - Surface				B11 - Salt					B6 - Surface S	
	A2 - High Wa A3 - Saturation				B13 - Aqua C1 - Hydro					B8 - Sparsely B10 - Drainage	Vegetated Concave Surface
	B1 - Water M						Rhizospheres on Living Roots (tilled)				
	B2 - Sedimen			 □ C2 - Dry Season Water Table □ C3 - Oxidized Rhizospheres on Living Roots (to till □ C8 - Crayfish Burrows 							
	B3 - Drift Dep B4 - Algal Ma			C4 - Prese			n Visible on Aerial Imagery				
			C7 - Thin N Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu			
	B5 - Iron Dep B7 - Inundation	on Visible on Aerial Im	agerv		Other (Exp	nan i)					aved Hummocks (LRR F)
	B9 - Water-St										,
Field Obser	vations:										
Surface Wat		Yes	Depth		_ (in.)			Wetland F	lydrology l	Present?	Υ
Water Table		Yes	Depth		_ (in.)			· · · · · · · · · · · · · · · · · · ·	iyai ology i		<u> </u>
Saturation P	resent?	Yes	Depth	:	_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:	No primary	wetland hydrology	indicators are	present W	etland hyd	rology is			obytic vogo	tation and lan	ndscape position.
											idoodpo pooliion.
		wettand flydrology	indicators are	procent W	ctiaria riya	rology is	assumed base	ed on hydrop	priytic veget	tation and lan	
SOILS	intion (Decer	, 0,			•				priytic vege	tation and lan	
Profile Descri		be to the depth ne	eded to docur	nent the indi	cator or co	onfirm th	e absence of ir	ndicators.)	priytic vege	tation and lan	
Profile Descri		, 0,	eded to docur	nent the indi	cator or co	onfirm th	e absence of ir	ndicators.)	priytic vege	tation and lan	
Profile Descri		be to the depth ne	eded to docur	nent the indi	cator or co	onfirm th	e absence of ir ore Lining, M=Mati	ndicators.)	priyac vege		
Profile Descri (Type: C=Concer		be to the depth ne etion, RM=Reduced Ma Matrix	eded to docur	nent the indi	cator or co Grains; Loca	onfirm th	e absence of ir ore Lining, M=Matr	ndicators.)	Texture		Remarks
Profile Descri	ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docur	ment the indi	cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Mati	ndicators.)			
Profile Descri (Type: C=Concer Depth (In.)		be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docur atrix, CS=Covered	ment the indi	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Matr	ndicators.)	Texture		
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docur atrix, CS=Covered % 100	ment the indi	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Mati es Type	ndicators.)	Texture SCL		
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docur atrix, CS=Covered % 100	ment the indi	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Mati es Type	ndicators.)	Texture SCL		
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docur atrix, CS=Covered % 100	ment the indi	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Mati es Type	ndicators.)	Texture SCL		
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docur atrix, CS=Covered % 100	ment the indi	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Mati es Type	ndicators.)	Texture SCL		
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28	ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1	eded to docur atrix, CS=Covered % 100	Color (Cator or co Grains; Local	Mottl %	e absence of ir ore Lining, M=Mati es Type	ndicators.)	Texture SCL		
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28	Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1	eded to docur atrix, CS=Covered % 100 90	Color (Cator or co Grains; Local	Mottl %	e absence of ir ore Lining, M=Matr es Type C	ndicators.)	Texture SCL C	for Problematic	Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28	Hue_10YR Hue_10YR ric Soil Field A1- Histosol	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 Indicators (ch	eded to docur atrix, CS=Covered % 100 90	Color (Hue_10YR dicators are 1	cator or co Grains; Local Moist) 5/8 not presen	Mottl %	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture SCL C Indicators f A9 - 1 cm M	for Problemation	Remarks c Soils ¹
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Marix Matrix Color (Moist) 2/1 4/1 Indicators (ch	eded to docur atrix, CS=Covered % 100 90	Color (Hue_10YR dicators are 1 S5 - Sandy R S6 - Stripped	Cator or co Grains; Local Moist) 5/8 not presen	Mottle % 10	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture SCL C Indicators f A9 - 1 cm M A16 - Coast	for Problemation	Remarks c Soils ¹ (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	Matrix Color (Moist) 2/1 4/1 Indicators (ch	eded to docur atrix, CS=Covered % 100 90	Color (Hue_10YR dicators are in the second	Cator or co Grains; Local Moist) 5/8 not present	Mottle % 10 t):	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Suck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks c Soils¹ (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth ne etion, RM=Reduced Marix Matrix Color (Moist) 2/1 4/1 Indicators (chaic ipedon stic in Sulfide	eded to docure trix, CS=Covered % 100 90 eck here if inc	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N	Cator or co Grains; Local Moist) 5/8 not presen Redox I Matrix Mucky Minera Gleyed Matrix	Mottle % 10 t):	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F	for Problemation Juck (LRR I, J) Prairie Redox (LRR G) Plains Depression	Remarks c Soils ¹ (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	Matrix Color (Moist) 2/1 4/1 Indicators (ch	eded to docur atrix, CS=Covered % 100 90	Color (Hue_10YR dicators are in the second	Cator or co Grains; Local Moist) 5/8 not present Redox I Matrix Mucky Minera Gleyed Matrix d Matrix	Mottle % 10 t):	e absence of ir ore Lining, M=Matr es Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F	for Problemation Juck (LRR I, J) Prairie Redox (LRR G) Plains Depression	Remarks c Soils¹ (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete	Matrix Color (Moist) 2/1 4/1 Indicators (chaice in Sulfide Layers (LRR FGH) ck (LRR FGH) d Below Dark Surface	eded to docur atrix, CS=Covered % 100 90 eck here if ind	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox E F7 - Depleted	Cator or co Grains; Local Moist) 5/8 not present Redox I Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	Mottle % 10 t):	e absence of ir ore Lining, M=Matr es Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation Juck (LRR I, J) Prairie Redox (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S	Remarks c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer	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	Matrix Color (Moist) 2/1 4/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eded to docur atrix, CS=Covered % 100 90 eck here if ince	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Local Moist) 5/8 Sedox I Matrix Mucky Mineral Gleyed Matrix Oark Surface Dark Surface	Mottle % 10 t):	e absence of ir ore Lining, M=Matron es Type	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation Juck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plains Depression Parent Material	Remarks c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28 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 S1 - Sandy M	Matrix Color (Moist) 2/1 4/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eded to docure atrix, CS=Covered % 100 90 eck here if inc	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Local Moist) 5/8 Sedox I Matrix Mucky Mineral Gleyed Matrix Oark Surface Dark Surface	Mottle % 10 t):	e absence of ir ore Lining, M=Matr es Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation Juck (LRR I, J) Prairie Redox (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S	Remarks c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer	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 S2 - 2.5 cm M	Matrix Color (Moist) 2/1 4/1 Indicators (chaice a Sulfide Layers (LRR FGH) a Below Dark Surface ark Surface ucky Mineral Mucky Peat or Peat (Line and Matrix)	eded to docure trix, CS=Covered	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Local Moist) 5/8 Sedox I Matrix Mucky Mineral Gleyed Matrix Oark Surface Dark Surface	Mottle % 10 t):	e absence of ir ore Lining, M=Matron es Type	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	for Problemation Juck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark Stain in Remarks)	Remarks c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface
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Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28 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 S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	Matrix Color (Moist) 2/1 4/1 Indicators (chaice a Sulfide Layers (LRR FGH) and Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRF FGK)	eded to docure trix, CS=Covered	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) Sedox I Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	Mottle % 10 t):	e absence of ir ore Lining, M=Matrone Es Type C RA 72, 73 of LRE	Location M	Texture SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	for Problemation Iluck (LRR I, J) Prairie Redox (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark Seain in Remarks)	Remarks c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-28 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 S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	Matrix Color (Moist) 2/1 4/1 Indicators (chaice a Sulfide Layers (LRR FGH) and Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRF FGK)	eded to docure trix, CS=Covered	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High P	Moist) Solve Moist Moist) Solve Moist Mo	Mottle % 10 t):	e absence of irrore Lining, M=Matrices Type C C Hydric So	Location M R H)	Texture SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	for Problemation Iluck (LRR I, J) Prairie Redox (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark Seain in Remarks)	Remarks c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-154n44w19-c1
VEGETATIO	N (Species identified in all uppercase a	are non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	Populus tremuloides	50	Υ	FAC	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.					
4.		1			Total Number of Dominant Species Across All Strata: 4 (B)
5.					Total Number of Borninant Opecies Across All Strata.
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 25 $\times 1 = 25$
	Total Cover :	50			FACW spp. $\frac{35}{}$ $\times 2 = \frac{70}{}$
			_		OBL spp. $\frac{25}{35}$ $x = \frac{25}{70}$ FAC spp. $\frac{60}{35}$ $x = \frac{25}{180}$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$
1.	Cornus racemosa	10	Υ	FAC	FACU spp. $\begin{array}{c cccc} & 0 & x & 4 = & & & \\ & UPL spp. & 0 & x & 5 = & & 0 \\ \end{array}$
2.			•		
3.		<u> </u>			Total 120 (A) 275 (B)
	_	1			Total 120 (A) 275 (B)
4.					December 2011 - D/A
5.		<u>_</u>			Prevalence Index = B/A = 2.292
6.					
7.]			
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover :	= 10			X Prevalence Index is ≤ 3.0 *
					 Morphological Adaptations (Explain) *
Horb Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	25	Υ	OBL	Froblem Hydrophytic Vegetation (Explain)
					* Indicators of hydric soil and wetland hydrology must be
2.	Phalaris arundinacea	25		FACW	present, unless disturbed or problematic.
3.	Poa palustris	10	N	FACW	·
4.					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				
14.					Manada Mina - All woody vince recordings of brings
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	= 60			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					,
4.	<u>'</u>				
''	Total Cover =	= 0			
Remarks:			odgo and	rood cons	ry groce
Remarks.	Dominant vegetation includes quaking aspe	en, woony se	eage, and	reed Cana	ily grass.
	_				
Additional F	Remarks:				