WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/25/14
Applicant:	·	Enbridge								County:	Pennington
		NTT/BEH			Subragion		or I DD);				MN
Investigators					_Sublegio	•	or LRR):	MLRA 56		State:	
Soil Unit:	I27A NWI Classification: PEMB										
Landform:	Depression			Local Relief: CC						Sample Point	: w-154n44w18-i1
Slope (%):	3 - 7%		Latitude: 48.16		Longitude:			Datum:			
Are climatic/	nydrologic col	nditions on the sit	te typical for th	is time of yea	ar? (If no, exp	olain in rema	arks)	☑ Yes	□ No	Section:	
Are Vegetation	on 🛛 Soil	□, or Hydrology	 csignificantly 	disturbed?		Are	e normal circu	nstances pr	esent?	Township:	
Are Vegetation	on 🗆 Soil	□, or Hydrology	□aturally pro	blematic?			☑ Yes	□ No		Range:	Dir:
SUMMARY C											
	Vegetation Pr		Yes					Hydric Soi	ls Present?	Yes	
	Irology Prese		Yes		-					nt Within A W	etland? Yes
				acted adiago	nt to o roo	dwayan	dourrounded				
Remarks:			o community loc	cated adjace	nt to a road	uway and	a surrounded i	by a wet mea	adow. Dom	linant species	s are meadow willow and slim-
	stem reed g	rass.									
HYDROLOG	Y										
Wetland Hy	drology Indi	cators (Check al	II that apply: Mi	inimum of on	e primary	or two se	econdary requ	ired).			
Primary:			ii that apply, wi			01 100 30	contrary requ	neu).	Secondary:		
	A1 - Surface V	Vater		п	B11 - Salt (Crust				B6 - Surface S	Soil Cracks
	A2 - High Wat			B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainag	
	B1 - Water Ma				C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sediment	Deposits					spheres on Living	Roots (not till	€ □	C8 - Crayfish I	
	B3 - Drift Depo	osits			C4 - Prese			· ·		C9 - Saturatio	n Visible on Aerial Imagery
	B4 - Algal Mat	or Crust			C7 - Thin M	/luck Surfa	ace		\checkmark	D2 - Geomorp	
	B5 - Iron Depo				Other (Expl	lain)			\checkmark	D5 - FAC-Neu	
		n Visible on Aerial In	magery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-Sta	ained Leaves									
Field Observ	vations:										
Surface Wate	er Present?	Yes 🛛	Depth	:	(in.)					-	
Water Table		Yes D	Depth		- (in.)			Wetland F	lydrology	Present?	Y
Saturation Pr		Yes D	Depth		- (in.)						
Gaturation			Deptil	•	_ (")						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No primary hydrology indicators are present. Wetland hydrology is assumed based on hydrophytic vegetation and landscape position.											
Remarks:	No primary I	hydrology indicate	ors are present	t. Wetland hy	-	-		drophytic ve	getation an	d landscape	position.
Remarks:	No primary I	hydrology indicate	ors are present	t. Wetland hy	-	-		drophytic ve	getation an	d landscape	position.
	No primary I	hydrology indicate	ors are present	t. Wetland hy	-	-		drophytic ve	getation an	d landscape	position.
SOILS		, .,	·		/drology is	assume	d based on hy		getation an	d landscape	position.
SOILS Profile Descri	ption (Descril	hydrology indicate be to the depth ne etion, RM=Reduced M	eeded to docur	ment the indi	drology is	assume	ed based on hy e absence of i	ndicators.)	getation an	d landscape	position.
SOILS Profile Descri	ption (Descril	be to the depth ne	eeded to docur	ment the indi	drology is	assume	ed based on hy e absence of i	ndicators.)	getation an	d landscape	position.
SOILS Profile Descri	ption (Descril	be to the depth ne	eeded to docur	ment the indi	drology is	assume onfirm the tion: PL=Pe	ed based on hy e absence of in ore Lining, M=Mat	ndicators.)	getation an	d landscape	position.
SOILS Profile Descri (Type: C=Concer	ption (Descril	be to the depth ne etion, RM=Reduced M Matrix	eeded to docur Matrix, CS=Covered	nent the indi	drology is	assume onfirm the tion: PL=Pe Mottle	ed based on hy e absence of i ore Lining, M=Mat	ndicators.)		d landscape	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	ption (Descril ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to docur Matrix, CS=Covered % 100	ment the indi d/Coated Sand (Color (drology is	assume onfirm the tion: PL=Pe Mottle	ed based on hy e absence of i ore Lining, M=Mat	ndicators.)		d landscape	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16	ption (Descril	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1	eeded to docur Matrix, CS=Covered	nent the indi d/Coated Sand (Color (/drology is cator or co Grains; Locat Moist)	assume onfirm the tion: PL=Pe Mottle	ed based on hy e absence of i ore Lining, M=Mat es Type	ndicators.)		d landscape	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	ption (Descril ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to docur Matrix, CS=Covered % 100	ment the indi d/Coated Sand (Color (/drology is cator or co Grains; Locat Moist)	assume onfirm the tion: PL=Pe Mottle	ed based on hy e absence of i ore Lining, M=Mat	ndicators.)		d landscape	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24	ption (Descril ntration, D=Deple Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 7/1	eeded to docur Matrix, CS=Covered % 100 100 60	nent the indi d/Coated Sand (Color (Hue_10YR	Arology is cator or co Grains; Locat Moist)	assume onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Mat es Type C	ndicators.)	Texture M C C	Mixed matrix.	Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24 NRCS Hydr	tration, D=Deple	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 7/1	eeded to docur Matrix, CS=Covered % 100 100 60 	nent the indi d/Coated Sand (Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped	Arology is cator or co Grains; Locat Moist) 2/1 2/1 not present edox Matrix	assume onfirm the tion: PL=Pe Mottle % 40	e absence of in ore Lining, M=Mat es Type C	Location M	Texture M C C C Indicators f A9 - 1 cm M A16 - Coast	Mixed matrix.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24 NRCS Hydr	iption (Descril htration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 7/1 Indicators (cl pedon tic	eeded to docur Matrix, CS=Covered % 100 100 60 	Color (I Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Arology is cator or co Grains; Locat Moist) 2/1 2/1 not present edox Matrix Jucky Minera	assume onfirm the tion: PL=Pe Mottle % 40 40 t):	e absence of in ore Lining, M=Mat es Type C	ndicators.) rix) Location M	Texture M C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	Mixed matrix. Mixed matrix. for Problemati luck (LRR I, J) Prairie Redox urface (LRR G)	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24 NRCS Hydr □ ☑	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 7/1 Indicators (cl pedon tic Sulfide	eeded to docur Matrix, CS=Covered % 100 100 60 	ment the indi d/Coated Sand (Color (Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Arology is cator or co Grains; Locat Moist) 2/1 2/1 not present cedox Matrix Aucky Minera Gleyed Matrix	assume onfirm the tion: PL=Pe Mottle % 40 40 t):	e absence of in ore Lining, M=Mat es Type C	ndicators.) rix) Location M	Texture M C C C M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Mixed matrix. Mixed matrix. for Problemation luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24 NRCS Hydr	Ption (Descril htration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 7/1 Indicators (cl pedon tic b Sulfide Layers (LRR F)	eeded to docur Matrix, CS=Covered % 100 100 60 	Color (I Color (I Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted	Arology is cator or co Grains; Locat Moist) 2/1 2/1 not present cedox Matrix Aucky Minera Gleyed Matrix d Matrix	assume onfirm the tion: PL=Pe Mottle % 40 40 t):	e absence of in ore Lining, M=Mat es Type C	ndicators.)	Texture M C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	Mixed matrix. Mixed matrix. for Problemation for Problemation	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Generation Hue_10YR HuE_10YR HuE_10YR HuE_10YR HUE_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 7/1 Indicators (cl pedon tic b Sulfide Layers (LRR F) ck (LRR FGH)	eeded to docur Matrix, CS=Covered % 100 100 60 	Color (I Color (I Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy Q F3 - Depleted F6 - Redox D	Arology is cator or co Grains; Locat Moist) 2/1 2/1 not present dedox Matrix Mucky Minera Gleyed Matrix Dark Surface	assume onfirm the tion: PL=Pe Mottle % 40 40 t):	e absence of in ore Lining, M=Mat es Type C	ndicators.) rix) Location M	Texture M C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	Mixed matrix. Mixed matrix. for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material	Example A state of the state of
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24 NRCS Hydr	tration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted	be to the depth ne etion, RM=Reduced N Matrix Color (Moist) 2/1 2/1 2/1 7/1 Indicators (cl pedon tic o Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac	eeded to docur Matrix, CS=Covered % 100 100 60 	Color (I Color (I Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted	Arology is cator or co Grains; Locat Moist) 2/1 2/1 1 1 1 1 1 1 1 1 1 1 1 1 1	assume onfirm the tion: PL=Pe Mottle % 40 40 t):	e absence of in ore Lining, M=Mat es Type C	ndicators.) rix) Location M	Texture M C C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Mixed matrix. Mixed matrix. for Problemation for Problemation	Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24 NRCS Hydr	httration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu	be to the depth ne etion, RM=Reduced N Matrix Color (Moist) 2/1 2/1 2/1 7/1 Indicators (cl pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eeded to docur Matrix, CS=Covered % 100 100 60 	Color (I Color (I Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Arology is cator or co Grains; Locat Moist) 2/1 2/1 10 10 10 10 10 10 10 10 10 1	assume onfirm the tion: PL=Pe Mottle % 40 40 t):	e absence of in ore Lining, M=Mat es Type C	ndicators.)	Texture M C C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Mixed matrix. Mixed matrix. for Problemation for Problemation	Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24 NRCS Hydr □ □ □ □ □ □ □ □ □ □ □ □ □	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Muc	be to the depth ne etion, RM=Reduced N Matrix Color (Moist) 2/1 2/1 2/1 7/1 Indicators (cl pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Peat or Peat (LR	eeded to docur Matrix, CS=Covered % 100 100 60 	Color (I Color (I Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Arology is cator or co Grains; Locat Moist) 2/1 2/1 10 10 10 10 10 10 10 10 10 1	assume onfirm the tion: PL=Pe Mottle % 40 40 t):	e absence of in ore Lining, M=Mat es Type C	ndicators.)	Texture M C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. Mixed matrix. for Problemation for Problemation	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-24 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced N Matrix Color (Moist) 2/1 2/1 2/1 7/1 Indicators (cl pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Peat or Peat (LR	eeded to docur Matrix, CS=Covered % 100 100 60 	Color (I Color (I Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Arology is cator or co Grains; Locat Moist) 2/1 2/1 10 10 10 10 10 10 10 10 10 1	assume onfirm the tion: PL=Pe Mottle % 40 40 t):	e absence of in ore Lining, M=Mat es Type C	ndicators.)	Texture M C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. Mixed matrix. for Problemation for Problemation	Example A second state of the second state of
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w18-i1
VEGETATIO	N (Species identified in all uppercase ar	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (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: 100.0% (A/B)
7.					
8.	<u> </u>				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					
10.	Total Cover =	0			OBL spp. 35 X 1 = 35
		0	FAC vv spp. 95 x 2 = 190		
O and line of /O handle of					FACW spp. 95 x 2 = 190 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0
	Stratum (Plot size: 15 ft. radius)		V		FACU spp. 0 $X 4 = 0$
1.	Salix petiolaris	20	<u>Т</u>	OBL	UPL spp. 0 $x 5 = 0$
2.	Salix interior	5	<u>N</u>	FACW	
3.	Salix discolor	5	N	FACW	Total <u>130</u> (A) <u>225</u> (B)
4.					
5.					Prevalence Index = $B/A = 1.731$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	30			X Prevalence Index is ≤ 3.0 *
			_		Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Calamagrostis stricta	75	Y	FACW	
2.	Carex pellita	15	N	OBL	* Indicators of hydric soil and wetland hydrology must be
3.		10	N	FACW	present, unless disturbed or problematic.
	Juncus arcticus	10	IN	FACW	
4.					Definitions of Vegetation Strata:
5.					Trace
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					
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 =	100			
			_		
Woody Vino St	ratum (Plot sizo: 30 ft, radius)				
	ratum (Plot size: 30 ft. radius)				
2.	<u> </u>				
					Hydrophytic Verstetion Present?
3.	<u> </u>				Hydrophytic Vegetation Present? Y
5.					
4.		^			
	Total Cover =				
Remarks:	The wetland vegetation is dominated by mea	adow willow	/ and slim-	-stem reed	d grass.
Additional F	Remarks:				