WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/12/14
Applicant:		Enbridge								County:	Pennington
Investigators		RAJ/BEH/MRK			_Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	143A			_			Classification	:			
Landform:	Dip				cal Relief:					Sample Point:	w-154n45w25-e1
Slope (%):	0 - 2%	Hat all to	Latitude: 48.12		Longitude:			Datum:		4 _	
		nditions on the sit			ar? (If no, exp				□ No	Section:	
Are Vegetation		□, or Hydrology	•			Are	normal circun	-	esent?	Township:	
Are Vegetation		□, or Hydrology	□aturally pro	oblematic?				□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \	_		Yes		_		Hydric Soils Present? Yes Is This Sampling Point Within A Wetland? Yes				
Wetland Hyd			Yes	***							
Remarks:			_							-	ry grass. The vegetation is
		om recent mowing	g but most spe	cies are still	identifiable	e. All pai	rameters of we	tland condit	ions are m	et.	
HYDROLOG'	Y										
Wetland Hy	drology Ind	icators (Check al	ll that apply; M	inimum of or	ne primary	or two se	econdary requi	red):			
Primary:		`			. ,			,	Secondary	∸	
	A1 - Surface				B11 - Salt (B6 - Surface S	
	A2 - High Wa				B13 - Aqua		0.1				Vegetated Concave Surface
	A3 - Saturation B1 - Water M				C1 - Hydro C2 - Dry Se					B10 - Drainage	
								Roots (not till	_	C8 - Crayfish E	Rhizospheres on Living Roots (tilled)
□ B2 - Sediment Deposits □ C3 - Oxidized Rhizospheres □ B3 - Drift Deposits □ C4 - Presence of Reduced In								rtoots (not till	`	•	Nicities on Aerial Imagery
	— · · · · · · · · · · · · · · · · · · ·									D2 - Geomorpl	
	B5 - Iron Dep				Other (Exp	lain)			\checkmark	D5 - FAC-Neut	
		on Visible on Aerial In	magery							D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
Field Observe											
Field Observ					(1)						
Surface Water		Yes □	Depth		_ (in.)			Wetland H	lvdrology	Present?	Υ
Water Table		Yes	Depth		_ (in.)				.,		<u> </u>
Saturation Pr	resent?	Yes □	Depth	:	(in.)						
					_ ` ′						
Describe Reco	orded Data (s	stream gauge, mon	nitoring well, ae	rial photos, pr		ections),	if available:				
Describe Reco	<u>`</u>	stream gauge, mon				ections),	if available:				
	<u>`</u>					ections),	if available:				
	<u>`</u>					ections),	if available:				
Remarks: SOILS Profile Descri	Indicators of the indicators o	f wetland hydrolog	gy are present	ment the ind	evious insp	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	Indicators of the indicators o	f wetland hydrolog	gy are present	ment the ind	evious insp	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	Indicators of the indicators o	f wetland hydrolog ibe to the depth ne etion, RM=Reduced M	gy are present	ment the ind	evious insp	onfirm the	e absence of ir ore Lining, M=Mati				
Remarks: SOILS Profile Descri	Indicators of the indicators o	f wetland hydrolog ibe to the depth ne etion, RM=Reduced M Matrix	gy are present eeded to docu Matrix, CS=Covere	ment the ind	evious insp cator or co Grains; Locat	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati	rix)			
Remarks: SOILS Profile Descri	Indicators of the indicators o	f wetland hydrolog ibe to the depth ne etion, RM=Reduced M	gy are present	ment the ind	evious insp cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of the indicators o	the to the depth need to the d	gy are present eeded to docu Matrix, CS=Covere	ment the ind	evious insp cator or co Grains; Locat	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr	rix)	Texture CL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of Indicators	the to the depth need to the d	gy are present eeded to docu Matrix, CS=Covere	ment the ind	cator or co	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr	rix)		calcic horizon	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of In	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist)	gy are present eeded to docu datrix, CS=Covere	ment the ind	cator or co Grains; Locat Moist)	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr es Type	Location	CL	calcic horizon	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of In	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist)	gy are present eeded to docu datrix, CS=Covere	ment the ind d/Coated Sand Color (cator or co Grains; Locat Moist)	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati es Type C	Location M	CL SIC		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of In	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist)	gy are present eeded to docu datrix, CS=Covere	ment the ind d/Coated Sand Color (cator or co Grains; Locat Moist)	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati es Type C	Location M	CL SIC		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20	Indicators of In	Matrix Color (Moist) 2/1 6/1	gy are present eeded to docu flatrix, CS=Covere % 100 65	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR	cator or co Grains; Locat Moist) 5/6 5/1	Mottle %	e absence of ir ore Lining, M=Mati es Type C C	Location M	CL SIC		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20	Indicators of In	Matrix Color (Moist) 2/1 6/1	gy are present eeded to docu datrix, CS=Covere	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR	cator or co Grains; Locat Moist) 5/6 5/1	Mottle %	e absence of ir ore Lining, M=Mati es Type C	Location M	CL SIC SIC	streaks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Indicators of In	Matrix Color (Moist) 2/1 6/1	gy are present eeded to docu flatrix, CS=Covere % 100 65	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR	cator or co Grains; Locat Moist) 5/6 5/1	Mottle %	e absence of ir ore Lining, M=Mati es Type C C	Location M M	CL SIC SIC	streaks for Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Indicators of In	Matrix Color (Moist) 2/1 6/1 Indicators (ch	gy are present eeded to docu flatrix, CS=Covere % 100 65	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR dicators are	cator or co Grains; Locat Moist) 5/6 5/1 not present	Mottle %	e absence of ir ore Lining, M=Mati es Type C C	Location	SIC SIC SIC Indicators	streaks for Problematic Muck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Indicators of In	Matrix Color (Moist) 2/1 6/1 Indicators (characters)	gy are present eeded to docu flatrix, CS=Covere % 100 65	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR dicators are S5 - Sandy F S6 - Stripped	moist) Sedox H Matrix	Mottle % 10 25	e absence of ir ore Lining, M=Mati es Type C C	Location	Indicators A9 - 1 cm N A16 - Coas	for Problemation Muck (LRR I, J) t Prairie Redox (: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	Matrix Color (Moist) 2/1 6/1 Indicators (chapped on stic	gy are present eeded to docu flatrix, CS=Covere % 100 65	Color (Hue_2.5Y Hue_10YR dicators are \$5 - Sandy F \$6 - Stripped F1 - Loamy N	cator or co Grains; Locat Moist) 5/6 5/1 not present	Mottle % 10 25	e absence of ir ore Lining, M=Mati es Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)	: Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	Matrix Color (Moist) Indicators (chapted on Stice on Sulfide	gy are present eeded to docu flatrix, CS=Covere % 100 65	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR dicators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy G	Moist) 5/6 5/1 Tot present Redox I Matrix Mucky Minera Gleyed Matrix	Mottle % 10 25	e absence of ir ore Lining, M=Mati es Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	Matrix Color (Moist) 2/1 6/1 Indicators (chapped on stic	gy are present eeded to docu fatrix, CS=Covere	Color (Hue_2.5Y Hue_10YR dicators are \$5 - Sandy F \$6 - Stripped F1 - Loamy N	moist) Sedox I Matrix Mucky Mineral Gleyed Matrix Matrix	Mottle % 10 25 t):	e absence of ir ore Lining, M=Mati es Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	: Soils ¹ LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	Matrix Color (Moist) Indicators (chapted in Sulfide I Layers (LRR FGH) and Below Dark Surface in S	gy are present eeded to docu fatrix, CS=Covere	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR dicators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	moist) Sedox I Matrix Mucky Minera Gleyed Matrix Oark Surface Depressions	Mottle % 10 25 t):	e absence of irore Lining, M=Matroses Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression ced Vertic Parent Material	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_5Y Tic Soil Field 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) Indicators (characters) Sipedon Stic In Sulfide I Layers (LRR F) Ck (LRR FGH) Ed Below Dark Surface Jucky Mineral	gy are present eeded to docu datrix, CS=Covere % 100 65 heck here if ince	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR dicators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	moist) Sedox I Matrix Mucky Minera Gleyed Matrix Oark Surface Depressions	Mottle % 10 25 t):	e absence of ir ore Lining, M=Mati es Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) It Prairie Redox (Surface (LRR G) Plains Depression Ced Vertic Parent Material V Shallow Dark S	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y 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 N	Matrix Color (Moist) Indicators (chain)	gy are present eeded to docu fatrix, CS=Covere	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR dicators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	moist) Sedox I Matrix Mucky Minera Gleyed Matrix Oark Surface Depressions	Mottle % 10 25 t):	e absence of irore Lining, M=Matroses Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) It Prairie Redox (Surface (LRR G) Plains Depression Ced Vertic Parent Material V Shallow Dark Sain in Remarks)	ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_5Y Tic Soil Field 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	Matrix Color (Moist) Indicators (chapted in Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface lark Surface lucky Mineral Mucky Peat or Peat (Lecky Peat or Peat (LR)	gy are present eeded to docu fatrix, CS=Covere	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR dicators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	moist) Sedox I Matrix Mucky Minera Gleyed Matrix Oark Surface Depressions	Mottle % 10 25 t):	e absence of irore Lining, M=Matroses Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	for Problematic Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_5Y Hue_5Y 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 N	Matrix Color (Moist) Indicators (chapted in Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface lark Surface lucky Mineral Mucky Peat or Peat (Lecky Peat or Peat (LR)	gy are present eeded to docu fatrix, CS=Covere	ment the ind d/Coated Sand Color (Hue_2.5Y Hue_10YR dicators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	moist) Sedox I Matrix Mucky Minera Gleyed Matrix Oark Surface Depressions	Mottle % 10 25 t):	e absence of irore Lining, M=Matroses Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) It Prairie Redox (Surface (LRR G) Plains Depression Ced Vertic Parent Material V Shallow Dark Sain in Remarks)	ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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spring and during wet periods.

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R	-			Sample Point: w-154n45w25-e1
					•
VEGETATIO	` ` '	re non-native	e species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:1 (A)
3.	J				
4.		;			Total Number of Dominant Species Across All Strata:1(B)
5.		;			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.	J				
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Tatal Causer				OBL spp. 0
	Total Cover =	= 0			FACW spp. 102
					FAC spp. $0 \times 3 = 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 10
1.					UPL spp. 0
2.					
3.					Total 112 (A) 244 (B)
4.					
5.					Prevalence Index = B/A = 2.179
6.					
7.					II leaded Newstation Indicators
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Tatal Cayon				XDominance Test is > 50%
	Total Cover =	= 0	_		X Prevalence Index is ≤ 3.0 *
ļ					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)			= 1 O \ 1 \ 1	Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	75	Y	FACW	
2.	Symphyotrichum lanceolatum	20	N	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Lotus comiculatus	10	N	FACU	present, unless disturbed or problematic.
4.	Packera pseudaurea	5	N	FACW	Definitions of Vegetation Strata:
5.	Mentha arvensis	2	N	FACW	_
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 =	112			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.		ı			
	Total Cover =				
Remarks:	A wet meadow dominated by reed canary gr	rass in a ha	ayfield. Ну	/drophytic	vegetation is present.
Additional R	Remarks:				