WETLAND DETERMINATION DATA FORM Great Plains Region

												07/04/44
Project/Site:		L3R									Date:	07/24/14
Applicant:		Enbridge									County:	Pennington
Investigators									MN			
Soil Unit:	I19A						•	l Classification:				
Landform:	Depression Local Relief: LC										Sample Point	: w-154n45w12-e1
Slope (%):	0 - 2%		Latitude: 4	18.167	738133	Longitude:	-96.377	3600089	Datum:			
		onditions on the sit								□ No	Section:	
Are Vegetati		I □, or Hydrology	•	-			Are	e normal circum	istances pre	esent?	Township:	
Are Vegetati	ion 🗆 Soi	I □, or Hydrology	Daturally	y prob	olematic?			☑ Yes	🗆 No		Range:	Dir:
SUMMARY (, ,								Ŭ	
										D	Maria	
Hydrophytic	•		<u>Y</u>	⁄es		-				s Present?		
Wetland Hyd	drology Prese	ent?	Y	′es					Is This Sar	npling Poin	it Within A W	etland? Yes
Remarks:		d is a wet meadow	v located in	n a ro	adside ditch	and dom	inated by	reed capary d	rass			
rtemarto.	The wettan		v located li	i u i u			inated by	y recordinary g	1000.			
HYDROLOG	iΥ											
									n)			
Wetland Hy	ydrology Ind	l icators (Check al	ll that apply	y; Min	nimum of on	e primary	or two se	econdary requir	ed):			
Primary	/:									Secondary:		
	A1 - Surface	Water			п	B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface
	•											
	A3 - Saturatio					C1 - Hydro					B10 - Drainag	
	B1 - Water M					C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sedimer	nt Deposits				C3 - Oxidiz	zed Rhizos	spheres on Living	Roots (not tille		C8 - Crayfish	Burrows
	B3 - Drift Der					C4 - Prese					•	n Visible on Aerial Imagery
	B4 - Algal Ma				П	C7 - Thin M					D2 - Geomorp	U
	B5 - Iron Dep					Other (Exp					D5 - FAC-Neu	
			magan/				nairi)					
		on Visible on Aerial In	nagery							L	DI - FIOST-HE	aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves										
Field Obser	vations											
						<i></i> .						
Surface Wat	ter Present?	Yes 🛛	D	Depth:		(in.)			Wotland U	wdrology I	Brocont?	Y
Water Table	Present?	Yes 🛛	D	Depth:		(in.)			Wetland H	iyarology i	riesent	T
						- ` '						
Saturation P	resent?	Yes 🗆		Depth:		(in.)						
Describe Rec	orded Data (Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks:		s an area that would							test.			
									test.			
Remarks:									test.			
Remarks: SOILS	The ditch is	s an area that woul	ld collect w	water,	and the ve	getation pa	asses the	e FAC-Neutral t				
Remarks: SOILS Profile Descr	The ditch is	s an area that would	eeded to d	water, locum	and the ve	getation pa	asses the	e FAC-Neutral t e absence of in	dicators.)			
Remarks: SOILS Profile Descr	The ditch is	s an area that woul	eeded to d	water, locum	and the ve	getation pa	asses the	e FAC-Neutral t e absence of in	dicators.)			
Remarks: SOILS Profile Descr	The ditch is	s an area that would	eeded to d	water, locum	and the ve	getation pa	asses the	e FAC-Neutral t e absence of in	dicators.)			
Remarks: SOILS Profile Descr	The ditch is	ibe to the depth ne	eeded to d	water, locum	and the ve	getation pa	onfirm the	e FAC-Neutral t e absence of in ore Lining, M=Matri	dicators.)			
Remarks: SOILS Profile Descr (Type: C=Conce	The ditch is	ibe to the depth ne letion, RM=Reduced M Matrix	eeded to d	water, locum overed/	and the ver nent the indi Coated Sand	getation pa cator or co Grains; Loca	onfirm the tion: PL=Pe Mottle	e FAC-Neutral f e absence of in ore Lining, M=Matri	dicators.) ^{ix)}			
Remarks: SOILS Profile Descr	The ditch is	ibe to the depth ne	eeded to d	water, locum	and the ve	getation pa cator or co Grains; Loca	onfirm the	e FAC-Neutral t e absence of in ore Lining, M=Matri	dicators.)	Texture		Remarks
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	The ditch is	s an area that woul ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to de Aatrix, CS=Co	water,	and the ver nent the indi /Coated Sand Color (cator or co Grains; Loca Moist)	onfirm the tion: PL=P Mottle	e FAC-Neutral t e absence of in ore Lining, M=Matri es Type	dicators.) ^{ix)}	Texture		Remarks
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr	The ditch is	s an area that woul ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to de Aatrix, CS=Co	if indi	and the ver nent the indi /Coated Sand Color (cator or co Grains; Loca Moist)	onfirm the tion: PL=P Mottle	e FAC-Neutral t e absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f	or Problemati	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr	The ditch is	s an area that would be to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to de Aatrix, CS=Co	water,	and the ver nent the indi Coated Sand Color (Color (cators are r S5 - Sandy R	cator or co Grains; Loca Moist) Moist) not presen edox	onfirm the tion: PL=P Mottle	e FAC-Neutral t e absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f A9 - 1 cm M	luck (LRR I, J)	<u>c Soils¹</u>
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr	The ditch is	s an area that would be to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to de Aatrix, CS=Co	if indi	and the ver nent the indi Coated Sand Color (Color (icators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Loca Moist) Moist) not presen edox Matrix	asses the	e FAC-Neutral t e absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr	The ditch is ription (Descr entration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi	s an area that would be to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to de Aatrix, CS=Co	if indi	and the ver nent the indi /Coated Sand Color (Color (cator or co Grains; Loca Moist) Moist) not presen edox Matrix Jucky Miner	asses the onfirm the tion: PL=Pe Mottle %	e FAC-Neutral t e absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr	The ditch is iption (Descri- intration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	s an area that would ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) Color (Moist) Indicators (ch bipedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surfac	eeded to d	if indi	and the ver nent the indi Coated Sand Color (Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	Cator or co Grains; Loca Moist) Moist) not presen edox Matrix Jucky Miner Gleyed Matri Matrix Jark Surface	asses the onfirm the tion: PL=Performed by the tion: PL=Performance of the tion: PL=Pe	e FAC-Neutral t e absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr	The ditch is ription (Descr entration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick [s an area that would ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) Color (Moist) Indicators (ch opedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface	eeded to d	if indi	and the ver nent the indi Coated Sand Color (Color (Color (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; Loca Moist) Moist) not presen edox Matrix Jucky Miners Gleyed Matri Matrix Jucky Surface Dark Surface	asses the onfirm the tion: PL=Pe Mottle %	e Absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr	The ditch is ription (Description, D=Dep intration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick I S1 - Sandy M	s an area that would ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) Color (Moist) Indicators (ch bipedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface fucky Mineral	eeded to de Matrix, CS=Co	if indi	and the ver nent the indi Coated Sand Color (Color (Color (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; Loca Moist) Moist) not presen edox Matrix Jucky Miners Gleyed Matri Matrix Jucky Surface Dark Surface	asses the onfirm the tion: PL=Pe Mottle %	e FAC-Neutral t e absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr	The ditch is ription (Description, D=Dep intration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick I S1 - Sandy M	s an area that would ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) Color (Moist) Indicators (ch opedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface	eeded to de Matrix, CS=Co	if indi	and the ver nent the indi Coated Sand Color (Color (Color (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; Loca Moist) Moist) not presen edox Matrix Jucky Miners Gleyed Matri Matrix Jucky Surface Dark Surface	asses the onfirm the tion: PL=Pe Mottle %	e Absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Concet Depth (In.) NRCS Hydr	The ditch is iption (Descri- intration, D=Dep intration, D=Dep	s an area that would be to the depth nelletion, RM=Reduced M Matrix Color (Moist) Color (Moist) Indicators (ch bipedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface Dark Surface fucky Mineral Mucky Peat or Peat (L	eeded to d Aatrix, CS=Co heck here ce	if indi	and the ver nent the indi Coated Sand Color (Color (Color (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; Loca Moist) Moist) not presen edox Matrix Jucky Miners Gleyed Matri Matrix Jucky Surface Dark Surface	asses the onfirm the tion: PL=Pe Mottle %	e Absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr	The ditch is ription (Descr entration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick I S1 - Sandy M S2 - 2.5 cm Mu	s an area that would ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) Color (Moist) Indicators (ch bipedon stic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface fucky Mineral Mucky Peat or Peat (LR	eeded to d Aatrix, CS=Co heck here ce	if indi	and the ver nent the indi Coated Sand Color (Color (Color (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; Loca Moist) Moist) not presen edox Matrix Jucky Miners Gleyed Matri Matrix Jucky Surface Dark Surface	asses the onfirm the tion: PL=Pe Mottle %	e Absence of in ore Lining, M=Matri es Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n45w12-e1				
		e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u>opecies Marrie</u>		Dominant	<u>Ind.Status</u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)				
3.					()				
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.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 8 $X 1 = 8$				
	Total Cover =_	0	OBL spp. 8 X 1 = 8 FACW spp. 85 X 2 = 170 FAC spp. 3 X 3 = 9 FACU spp. 20 X 4 = 80						
					FAC spp. 3 X $3 = 9$				
	Stratum (Plot size: 15 ft. radius)				FACU spp. 20 X 4 = 80 UPL spp. 0 X 5 = 0				
<u> </u>					UPL spp. 0 $x 5 = 0$				
3.					Total 116 (A) 267 (B)				
4.									
5.					Prevalence Index = $B/A = 2.302$				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	70	Y	FACW					
2.	Agrostis gigantea	15	N	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Poa pratensis	15	N	FACU	present, unless disturbed or problematic.				
4.	Scirpus atrovirens	5	<u>N</u>	OBL	Definitions of Vegetation Strata:				
5.	Elymus repens	5	<u>N</u>	FACU	—				
6	Rorippa palustris	3	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.	Rumex crispus	3	N	FAC	height (DDH), regardless of height.				
<u>8.</u> 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 =	116							
	=		_						
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
-	Total Cover =	0							
Remarks:	The ditch is dominated by reed canary grass.	A mixture	e of grasse	es compris	ses the rest of the vegetation.				
Additional F	Remarks:								