WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/30/14
Applicant:		Enbridge			Subragian (MLDA a						County:	Pennington
Investigators Soil Unit:	s: I11A	A RAJ/BJC				Subregion (MLRA or LRR): MLRA 56 NWI Classification: PUBGx					State:	MN
Landform:	Footslope						.ocal Relief: CC				_ Sample Point:	w-153n44w12-b1
Slope (%):	3 - 7%		Latitude: 48	8.08078		Longitude:		262	Datum:]	
Are climatic/	hydrologic co	nditions on the site	e typical fo	or this tir	me of yea	r? (If no, exp	plain in rema	arks)	☑ Yes	□ No	Section:	
Are Vegetati		□, or Hydrology	•				Are	e normal circum	-	esent?	Township:	
Are Vegetati	-	□, or Hydrology		[,] probler	matic?			⊠ Yes	□ No		Range:	Dir:
SUMMARY O			Va						Undria Sai	la Dragont?	Vaa	
Hydrophytic Vegetation Present?YesWetland Hydrology Present?Yes						Hydric Soils Present? Yes Is This Sampling Point Within A Wetland? Yes						
Remarks:			-		e of a shall	low open v	water co	mmunity. The				id cattail and lake sedge. The
		s significantly dist		-				•				
HYDROLOG	-	<u> </u>				•						
Wetland Hy	drology Ind	i cators (Check all	l that apply	/; Minim	num of one	e primary	or two se	econdary requir	ed):			
Primary	<u>.</u>	·							,	Secondary:		
	A1 - Surface V A2 - High Wa					B11 - Salt (B13 - Aqua					B6 - Surface S	oil Cracks Vegetated Concave Surface
S S	A3 - Saturatio					C1 - Hydro					B10 - Drainage	
	B1 - Water Ma					C2 - Dry Se	eason Wa	ter Table			C3 - Oxidized	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep	•				C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not till	• •	C8 - Crayfish I	Burrows n Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M					D2 - Geomorp	0,
	B5 - Iron Dep	osits				Other (Exp					D5 - FAC-Neu	tral Test
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	D9 - Waler-Si	alleu Leaves										
Field Obser	vations:											
Surface Wat	er Present?	Yes 🗆	De	epth:		(in.)					D	
Water Table	Present?	Yes 🛛		epth:	11	(in.)			wetland F	lydrology	Present?	Y
Saturation P	resent?	Yes 🛛	De	epth:	6	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:											bases of cattail stems.	
Indicators of wetland hydrology are present.												
SOILS		,,										
SOILS Profile Descri	iption (Descri	be to the depth ne			nt the indic	cator or co	onfirm the	e absence of in	dicators.)			
Profile Descri			eeded to do	ocumen								
Profile Descri		be to the depth ne etion, RM=Reduced M	eeded to do	ocumen			tion: PL=P	ore Lining, M=Matri				
Profile Descri (Type: C=Concer		be to the depth ne etion, RM=Reduced M Matrix	eded to do	ocumen vered/Coa	ated Sand G	Grains; Locat	tion: PL=P Mottle	ore Lining, M=Matri es	(x)	Toxturo		Pomarka
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to do	ocumen vered/Coa		Grains; Locat	tion: PL=P	ore Lining, M=Matri		Texture		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-1	htration, D=Deplo	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eded to do atrix, CS=Cov	ocumen vered/Coa % 100	oated Sand G Color (N	Brains; Locat Moist)	tion: PL=P Mottle %	ore Lining, M=Matri es Type	x) Location	Μ		Remarks
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu	Color (N Le_7.5YR	Brains; Locat Moist) 3/4	tion: PL=P Mottle % 5	ore Lining, M=Matri es Type C	Location	Texture M C C	organic streaking	
Profile Descri (Type: C=Concer Depth (In.) 0-1	htration, D=Deplo	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu	oated Sand G Color (N	Brains; Locat Moist)	tion: PL=P Mottle %	ore Lining, M=Matri es Type	x) Location	Μ	organic streaking	
Profile Descri (Type: C=Concer Depth (In.) 0-1	htration, D=Deplo	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu	Color (N Le_7.5YR	Brains; Locat Moist) 3/4	tion: PL=P Mottle % 5	ore Lining, M=Matri es Type C	Location	Μ	organic streaking	
Profile Descri (Type: C=Concer Depth (In.) 0-1	htration, D=Deplo	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu	Color (N Le_7.5YR	Brains; Locat Moist) 3/4	tion: PL=P Mottle % 5	ore Lining, M=Matri es Type C	Location	Μ	organic streaking	
Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18	htration, D=Deplo	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1	eded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu Hu	Color (N Le_7.5YR ue_10YR	Aoist) 3/4 2/1	tion: PL=P Mottle % 5 35	ore Lining, M=Matri es Type C	Location	M C C		
Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18	Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1	eeded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu Hu if indicat	Color (N Le_7.5YR ue_10YR	Aoist) 3/4 2/1 ot present	tion: PL=P Mottle % 5 35	ore Lining, M=Matri es Type C C	x) Location M M	M C C	for Problematic	
Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ric Soil Field	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1	eeded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu Hu if indicat	Color (N Le_7.5YR ue_10YR itors are n	Aoist) 3/4 2/1 ot present	tion: PL=P Mottle % 5 35	ore Lining, M=Matri es Type C C	x) Location M M	M C C Indicators f A9 - 1 cm M	f or Problemati luck (LRR I, J)	<u>c Soils¹</u>
Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (ch	eeded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu 60 Hu if indicat if indicat S5 0 S6	Color (N Je_7.5YR ue_10YR itors are n 5 - Sandy Re 5 - Stripped	Aoist) 3/4 2/1 ot present edox Matrix	tion: PL=P Mottle % 5 35 t):	ore Lining, M=Matri es Type C C	x) Location M M	M C C Indicators f A9 - 1 cm M A16 - Coast	f or Problemati luck (LRR I, J) Prairie Redox	<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (ch ipedon stic	eeded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu 60 Hu if indicat if indicat 55 56 S6 56 F1 52	Color (N Le_7.5YR ue_10YR itors are n 5 - Sandy Re 5 - Stripped - Loamy M 2 - Loamy G	Aoist) 3/4 2/1 ot present edox Matrix ucky Minera leyed Matrix	tion: PL=P Mottle % 5 35 t):	ore Lining, M=Matri es Type C C	x) Location M M	M C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	f <mark>or Problematic</mark> luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (ch ipedon etic n Sulfide Layers (LRR F)	eeded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu 60 Hu Hu if indicat G S5 G S6 G F1 G F2 Ø F3	Color (N Le_7.5YR ue_7.5YR ue_10YR ue_10YR tors are n 5 - Sandy Re 5 - Stripped - Loamy M 2 - Loamy G 5 - Depleted	Aoist) Aoist) 3/4 2/1 ot present edox Matrix ucky Minera leyed Matrix Matrix	tion: PL=P Mottle % 5 35 t):	ore Lining, M=Matri es Type C C	x) Location M M	M C C M C M M C M M C M M C M M C M C M	for Problemation Iuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu 60 Hu 60 Hu 100 60 F1 55 56 S6 56 S6 56 S6 57 57 57 56 S6 56 S6 56 F1 57 57 57 57 57 57 57 57 57 57 57 57 57	Color (N Le_7.5YR ue_10YR ue_10YR tors are n 5 - Sandy Re 5 - Stripped - Loamy M 2 - Loamy G 5 - Depleted 5 - Redox Da	Aoist) 3/4 2/1 ot present edox Matrix ucky Minera leyed Matrix Matrix ark Surface	tion: PL=P Mottle % 5 35 t):	ore Lining, M=Matri es Type C C	x) Location M M	M C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	for Problemation luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material	<mark>c Soils¹</mark> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfact ark Surface	eeded to do atrix, CS=Cov	ocumen vered/Coa % 100 60 Hu 60 Hu Hu 60 F1 55 5 56 56 56 57 58 56 57 57 58	Color (N Le_7.5YR ue_7.5YR ue_10YR ue_10YR tors are n 5 - Sandy Re 5 - Stripped - Loamy M 2 - Loamy G 5 - Depleted 5 - Redox Da 6 - Redox Da	Aoist) Aoist) 3/4 2/1 ot present edox Matrix ucky Minera leyed Matrix Matrix ark Surface Dark Surfa epressions	tion: PL=P Mottle % 5 35 t):	ore Lining, M=Matri	x) Location M M I	M C C M C M C M A C C A A A A A A A A A	for Problemation Iuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	<mark>c Soils¹</mark> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	e: L3R				Sample Point: w-153n44w12-b1
VEGETATIO		re non-native	species.)		
I ree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.			Dominant	Inu.Sidius	
1. 2.		ŕ			$\frac{1}{2}$
	1	1		'	Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A)
3.	_I	/			
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7.		l			
8.		<u></u>			Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 55 X 1 = 55 FACW spp. 20 X 2 = 40 FAC spp. 0 X 3 = 0 FACU spp. 0 X 4 = 0
	Total Cover =	= 0			FACW spp. 20 x 2 = 40
l					FAC spp. 0 $x 3 = 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)			,	FACU spp. 0 $x 4 = 0$
1.					UPL spp. 0 $x 5 = 0$
2.					
3.				,	Total <u>75</u> (A) <u>95</u> (B)
4.		1		,	
5.		1		,	Prevalence Index = $B/A = 1.267$
6.		1			
7.	;	1			1
8.	-];	1		,	Hydrophytic Vegetation Indicators:
9.	-1	1		,	Rapid Test for Hydrophytic Vegetation
10.		í 		,	$\frac{1}{X}$ Dominance Test is > 50%
H 10.	 Total Cover =	= 0		,	$\frac{X}{X} = \frac{X}{2} Dominance rest is > 50\%$
1		-		,	
	·· · · · · · · · ·				Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)		V		Problem Hydrophytic Vegetation (Explain) *
1.	Typha X glauca	30	I	OBL	
2.	Carex lacustris	20	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Symphyotrichum lanceolatum	15	Y	FACW	present, unless disturbed or problematic.
4.	Persicaria amphibia	5	<u>N</u>	OBL	Definitions of Vegetation Strata:
5.	Mentha arvensis	5	N	FACW	
6				,	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					1
9.				,	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.		1		,	1
11.	1	1			1
12.	<u>i</u>	1			Herb - All herbaceous (non-woody) plants, regardless of size.
13.	1	1			
14.	1	1			4
14.					Woody Vines - All woody vines, regardless of height.
·····	Total Cover =	= 75			
1		- 10		,	
				,	
	Stratum (Plot size: 30 ft. radius)	1		,	-
1.	;	1			
2.		<u> </u>			
3.					Hydrophytic Vegetation Present? Y
5.		<u></u>			
4.		1			
	Total Cover =			'	
Remarks:					ybrid cattail is dominant; upslope lake sedge becomes dominant. It is apparent that
1					e sedge coverage would be much higher. Hydrophytic vegetation is present.
i	· · ·				
Additional R	Pomorke				
Additionari	(emarks:				
1					
1					
1					