WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: <u>09/30/14</u>		
Applicant:		Enbridge								County: Pennington		
Investigators:	Y				_Subregio	`	or LRR):	MLRA 56		State: MN		
Soil Unit:	134A				1 D 1' (I Classification:			450.44.40.0		
Landform:	Depression		J- 40 07		cal Relief:		FOE	Datum	_	Sample Point: w-153n44w13-a2		
Slope (%):	0 - 2%		de: 48.07		Longitude:			Datum:		Continu		
		nditions on the site typic			al ! (If no, exp			☑ Yes	□ No	Section:		
Are Vegetation			•	disturbed? blematic?		Ale	e normal circun ☑ Yes	Stances pro	esent?	Township: Range: Dir:		
Are Vegetation			arally proi	olematic:			M 162			Range: Dir:		
			Yes					Hydric Soi	ls Present?	Vas		
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes			Hydric Soils Present? Yes Is This Sampling Point Within A Wetland? Yes					
				ov dominate	d by balsai	m poplar	a shrub laver			and other shrubs, and an herbaceous layer		
l romano.		by reed canary grass, la		•	-		•		•	· · · · · · · · · · · · · · · · · · ·		
HYDROLOGY		by room barrary grade, ra	ino ooage	, and blodgi	r oouge iir	a dopro	oorom 7 m para	notoro or w	ottaria corre	and process.		
		leaters (Chaol, all that	analu Mir	aimauma af am	0 Primo 0 W /	or two o		o d\.				
Primary:	•	icators (Check all that a	appıy; ıvıır	nimum of on	e primary	or two se	econdary requi	ea):	Secondary			
	A1 - Surface \	Nater		П	B11 - Salt	Crust			Secondary:	<u>.</u> B6 - Surface Soil Cracks		
	A2 - High Wa				B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio				C1 - Hydro					B10 - Drainage Patterns		
	B1 - Water M				C2 - Dry So			D		C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen B3 - Drift Dep	•					spheres on Living duced Iron	Roots (not till	l€ □	C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorphic Position		
	B5 - Iron Dep				Other (Exp	lain)			✓	D5 - FAC-Neutral Test		
		n Visible on Aerial Imagery								D7 - Frost-Heaved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves										
Field Observ												
Field Observ		_	5 4		(! \							
Surface Wate		Yes	Depth:		_ (in.)			Wetland F	Hydrology I	Present? Y		
Water Table		Yes	Depth:		_ (in.)							
Saturation Pr		Yes	Depth:		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: Indicators of wetland hydrology are present.												
Remarks:	Indicators o				evious irisp	ections),	if available:					
	Indicators o				evious irisp	ections),	if available:					
SOILS		f wetland hydrology are	present.		·	,		dicators				
SOILS Profile Descri	ption (Descri	f wetland hydrology are	present.	nent the indi	cator or co	onfirm th	e absence of in					
SOILS Profile Descri	ption (Descri	f wetland hydrology are	present.	nent the indi	cator or co	onfirm th	e absence of in					
SOILS Profile Descri	ption (Descri	f wetland hydrology are be to the depth needed etion, RM=Reduced Matrix, C	present.	nent the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr					
SOILS Profile Descrip (Type: C=Concen	ption (Descri	be to the depth needed etion, RM=Reduced Matrix, C	to docun	nent the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr	(x)	Texture	Remarks		
SOILS Profile Descrip (Type: C=Concent	ption (Descri	be to the depth needed etion, RM=Reduced Matrix Matrix Color (Moist)	to docunt s=Covered	nent the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr		Texture	Remarks		
SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-12	ption (Descri tration, D=Depl Hue_10YR	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1	to documes=Covered % 100	nent the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr	(x)	FSL	Remarks		
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-12 12-14	ption (Descri ntration, D=Depl Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 7/2	to documes=Covered % 100 100	nent the indi //Coated Sand Color (cator or co	onfirm the	e absence of in ore Lining, M=Matr es Type	Location		Remarks		
SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-12	ption (Descri tration, D=Depl Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 7/2	to documes=Covered % 100	nent the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr	(x)	FSL	Remarks		
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-12 12-14	ption (Descri ntration, D=Depl Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 7/2	to documes=Covered % 100 100	nent the indi //Coated Sand Color (cator or co	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	FSL	Remarks		
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-12 12-14	ption (Descri ntration, D=Depl Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 7/2	to documes=Covered % 100 100	nent the indi //Coated Sand Color (cator or co	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	FSL	Remarks		
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SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-12 12-14	ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 7/2 5/1	to documes=Covered % 100 100 95	nent the indi //Coated Sand Color (cator or co	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL LFS C			
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-12 12-14 14-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 7/2 5/1	to documes=Covered % 100 100 95	Color (Hue_10YR	cator or co Grains; Local Moist) 5/8 not presen	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL LFS C	for Problematic Soils ¹		
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-12 12-14 14-18	ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR Al- Histosol	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1 7/2 5/1 Indicators (check h	to documes=Covered % 100 100 95	Color (Hue_10YR icators are r	cator or co Grains; Local Moist) 5/8 not presented	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL LFS C Indicators f	for Problematic Soils ¹ fluck (LRR I, J)		
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-12 12-14 14-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 7/2 5/1 Indicators (check has ipedon	to documes=Covered % 100 100 95	Color (Hue_10YR	cator or co Grains; Local Moist) 5/8 not presented a control of the control of	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL LFS C Indicators f A9 - 1 cm M A16 - Coast	for Problematic Soils ¹		
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-12 12-14 14-18 NRCS Hydri	htration (Descriptration, D=Deplementation, D=De	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 7/2 5/1 Indicators (check has ipedon etic)	to documes=Covered % 100 100 95	Color (Hue_10YR icators are r S5 - Sandy R S6 - Stripped	cator or cograins; Locator or	Mottle Mottle stion: PL=P	e absence of in ore Lining, M=Matr es Type	Location	FSL LFS C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problematic Soils¹ fuck (LRR I, J) t Prairie Redox (LRR F, G, H)		
Depth (In.) 0-12 12-14 14-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 7/2 5/1 Indicators (check has ipedon stice in Sulfide Layers (LRR F)	% 100 100 95 nere if ind	Color (Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	cator or cograins; Local Moist) 5/8 not presented ox Matrix Mucky Mineral Bleyed Matrix Matrix	mottle Mottle % 5 t):	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduce	for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic		
Depth (In.) 0-12 12-14 14-18 NRCS Hydri	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 needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 7/2 5/1 Indicators (check hastic in Sulfide Layers (LRR F) ck (LRR FGH)	% 100 100 95 nere if ind	Color (Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D	cator or co Grains; Local Moist) 5/8 5/8 not presen edox Matrix Mucky Minera Gleyed Matrix Matrix Matrix Park Surface	mottle which was all and a second conformation which was all and a second conformation with the conformation w	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) turface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) teed Vertic Parent Material		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w13-a2					
					-					
VEGETATIO		re non-native	species.)							
Tree Stratum ((Plot size: 30 ft. radius)									
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet					
1.	Populus balsamifera	40	Y	FACW						
2.	Populus tremuloides	20	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC:(A)					
3.	Acer negundo	20	Υ	FAC	7 (D)					
4.					Total Number of Dominant Species Across All Strata:(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.	_l Total Cover =	00			OBL spp. <u>55</u> x 1 = <u>55</u>					
	80			FACW spp. $\frac{113}{113}$						
					FAC spp. 50 $\times 3 = 150$					
4	Stratum (Plot size: 15 ft. radius)	0.5	V		FACU spp. 5 x 4 = 20					
1.	Cornus alba	35	Y Y	FACW	UPL spp. $0 x 5 = 0$					
2.	Populus balsamifera	25		FACW	T-4-1 000 (A)					
3.	Salix petiolaris	15	N	OBL	Total <u>223</u> (A) <u>451</u> (B)					
4.	Rhamnus cathartica	5	N	FACU	Dravelance Index D/A 2 000					
5.	Ribes americanum	3	N	FACW	Prevalence Index = B/A = 2.022					
6.										
7.					Undrankatia Varatatian Indiaatara					
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.	Total Cover	00			XDominance Test is > 50%					
	Total Cover =	83	_		X Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)		V	ODI	Problem Hydrophytic Vegetation (Explain) *					
1.	Carex lacustris	20	<u>'</u>	OBL	* le disease es ferreleis es il en derrette ed broden la contract le c					
2.	Carex atherodes	20	Y	OBL	 * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 					
3.	Phalaris arundinacea	10	N	FACW						
4.	Petasites frigidus	10	N	FAC	Definitions of Vegetation Strata:					
5.					-					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.					
7.					Height (DBH), regardless of height.					
8.					On the wife water Weady plants loss than 2 in DPH, regardless of height					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.										
11.					I I All harbassaus (non woody) planta, regardless of size					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.										
14.					NAC A NO. All was about to a consultance of height					
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	60								
_										
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.					Uhada a la da Wasa da Barra da W					
3.					Hydrophytic Vegetation Present?Y					
5.										
4.	T : 10									
Total Cover = 0										
Remarks: A hardwood swamp community with a canopy of balsam poplar, quaking aspen, and boxelder, a shrub layer of red osier dogwood and other shrubs, and an										
	herbaceous layer dominated by reed canary	grass, lake	e sedge, a	nd slough	sedge. Hydrophytic vegetation is present.					
Additional Remarks:										