WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 08/04/14		
Applicant:	Enbridge									County: Marshall		
Investigators							n (MLRA or LRR): MLRA 56			State: MN		
Soil Unit:	I24A					NW	I Classification:					
Landform: Side slope Local Relief: CC Sample Point: u-155n45w18-c1												
Slope (%):	3 - 7%		e: 48.24		Longitude:			Datum:				
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, e									□ No	Section:		
Are Vegetation	•		•	disturbed?		Are	e normal circum	•	esent?	Township:		
Are Vegetation			ally prob	olematic?			Yes	□ No		Range: Dir:		
SUMMARY OF FINDINGS												
Hydrophytic \	•		No						ls Present?			
Wetland Hyd			No	Land Call				Is This Sar	mpling Poin	nt Within A Wetland? No		
Remarks:	i ne upiana	point is located on the ed	age or a	wneat field.								
HYDDOLOGY	V											
HYDROLOG'												
		icators (Check all that a	pply; Mir	nimum of one	primary	or two s	econdary requii	red):				
<u>Primary:</u>		Mata			244 0 114	2			Secondary:			
	A1 - Surface A2 - High Wa				311 - Salt (313 - Aqua					B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturation				C1 - Hydro					B10 - Drainage Patterns		
	B1 - Water M				C2 - Dry Se					C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimer	•					spheres on Living	Roots (not till	• 🗆	C8 - Crayfish Burrows		
	B3 - Drift Dep				C4 - Presei C7 - Thin M		duced Iron			C9 - Saturation Visible on Aerial Imagery		
	B4 - Algal Ma B5 - Iron Dep				Other (Expl		ace			D2 - Geomorphic Position D5 - FAC-Neutral Test		
		on Visible on Aerial Imagery			other (Exp	iaii i)				D7 - Frost-Heaved Hummocks (LRR F)		
		tained Leaves								,		
Field Observ	vations:											
Surface Wate	er Present?	Yes	Depth:		(in.)			Wetland H	lydrology l	Present? N		
Water Table		Yes	Depth:		(in.)			Victiana	iyarology	——————————————————————————————————————		
Saturation Present? Yes Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No wetland hydrology indicators are present.												
SOILS												
		ibe to the depth needed t										
(Type: C=Concer	itration, D=Depi	etion, RM=Reduced Matrix, CS	=Covered	Coaled Sand G	rains, Locat	ion: PL=P	ore Lining, M=Mair	ix)				
		Matrix				Mottle	 PS					
Depth (In.)		Color (Moist)	%	Color (M	loist)	%	Type	Location	Texture	Remarks		
0-6	Hue_10YR	` ′	100	10100	10101)	70	Турс	Location	SCL	remano		
6-18	Hue_10YR		70						SCL			
6-18	Hue_10YR		30						LS			
0-10	Tide_Totik	3/3	30						LO			
						ī	I .		Ī			
NDCS Hydr	is Soil Field	Indicators (check be	oro if ind	icators are no	ot procont	+\ -						
NRCS Hydr	ic Soil Field	Indicators (check he	ere if ind	icators are no	ot present	t):	✓		Indicators f	for Problematic Soils ¹		
		Indicators (check he				t):	✓			for Problematic Soils ¹		
NRCS Hydr	A1- Histosol	·		S5 - Sandy Re	dox	t):	✓		A9 - 1 cm M	luck (LRR I, J)		
		ipedon			dox ⁄/atrix		✓		A9 - 1 cm M A16 - Coast S7 - Dark S	Muck (LRR I, J) t Prairie Redox (LRR F, G, H) turface (LRR G)		
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	nipedon stic n Sulfide	_ _ _	S5 - Sandy Re S6 - Stripped M F1 - Loamy Mu F2 - Loamy Gl	dox Matrix ucky Minera eyed Matrix	al	✓		A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Muck (LRR I, J) t Prairie Redox (LRR F, G, H) turface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)		
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	oipedon stic n Sulfide I Layers (LRR F)	_ _ _ _	S5 - Sandy Re S6 - Stripped M F1 - Loamy Mu F2 - Loamy Glo F3 - Depleted	dox Matrix Icky Minera eyed Matrix Matrix	al K	✓	_ _ _	A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic		
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	oipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH)	0	S5 - Sandy Re S6 - Stripped M F1 - Loamy Mu F2 - Loamy Gle F3 - Depleted I F6 - Redox Da	dox Matrix Icky Minera eyed Matrix Matrix rk Surface	al K	✓		A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P	Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material		
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	nipedon etic n Sulfide l Layers (LRR F) ck (LRR FGH) ed Below Dark Surface		S5 - Sandy Re S6 - Stripped M F1 - Loamy Mu F2 - Loamy Glo F3 - Depleted	dox Matrix Icky Minera eyed Matrix Matrix rk Surface Dark Surfa	al K	✓		A9 - 1 cm M A16 - Coast S7 - Dark Sc F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic		
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	oipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface Park Surface		S5 - Sandy Re S6 - Stripped M F1 - Loamy Mu F2 - Loamy Gle F3 - Depleted M F6 - Redox Da F7 - Depleted M F8 - Redox De	dox Matrix Joky Minera Leyed Matrix Matrix rk Surface Dark Surfa pressions	al c	.RA 72, 73 of LRF		A9 - 1 cm M A16 - Coast S7 - Dark Sc F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	Muck (LRR I, J) t Prairie Redox (LRR F, G, H) turface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) toed Vertic Parent Material To Shallow Dark Surface		
	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	oipedon stic n Sulfide l Layers (LRR F) ck (LRR FGH) ed Below Dark Surface eark Surface lucky Mineral Mucky Peat or Peat (LRR G, F		S5 - Sandy Re S6 - Stripped M F1 - Loamy Mu F2 - Loamy Gle F3 - Depleted M F6 - Redox Da F7 - Depleted M F8 - Redox De	dox Matrix Joky Minera Leyed Matrix Matrix rk Surface Dark Surfa pressions	al c			A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material v Shallow Dark Surface ain in Remarks)		
	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	oipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface Park Surface ucky Mineral Mucky Peat or Peat (LRR G, F cky Peat or Peat (LRR F)		S5 - Sandy Re S6 - Stripped M F1 - Loamy Mu F2 - Loamy Gle F3 - Depleted M F6 - Redox Da F7 - Depleted M F8 - Redox De	dox Matrix Joky Minera Leyed Matrix Matrix rk Surface Dark Surfa pressions	al c			A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	Muck (LRR I, J) t Prairie Redox (LRR F, G, H) turface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) toed Vertic Parent Material o Shallow Dark Surface ain in Remarks)		
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Project/Site:	L3R				Sample Point: u-155n45w18-c1			
					•			
VEGETATIO		re non-native	species.)					
Tree Stratum ((Plot size: 30 ft. radius)							
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC:(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: 0.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp 0			
	Total Cover =	0			FACW spp.			
					FAC spp.			
Sapling/Shrub \$	Stratum (Plot size: 15 ft. radius)				Notal % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0 UPL spp. 90 x 5 = 450			
1.					UPL spp 90			
2.								
3.					Total 90 (A) 450 (B)			
4.								
5.					Prevalence Index = B/A = 5.000			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	Total Cover =	0			Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Triticum aestivum	90	Υ	NI				
2.				_	* Indicators of hydric soil and wetland hydrology must be			
3.					present, unless disturbed or problematic.			
4.					Definitions of Vegetation Strata:			
5.								
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.					1			
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.					-			
15.					Woody Vines - All woody vines, regardless of height.			
13.	Total Cover				TVOOCY VIIIes - / III Noosy VIIIos, Togalaises ei Heighi			
	Total Cover =	90						
Marada Vina Ot	(Dist size of 00 ft and live)							
vvoody vine Sti	ratum (Plot size: 30 ft. radius)				-			
2.								
					Undrankytia Vanatatian Brasant?			
3.					Hydrophytic Vegetation Present? N			
5.								
4.	Total Cover							
Domonico	Total Cover =	0						
Remarks:	The upland vegetation consists of wheat.							
Additional Remarks:								