WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/25/14
Applicant:		Enbridge								County:	Marshall
Investigators		BEH/RAJ			_Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	I11A						I Classification	i:		⅃ ͺ	4== 4= 60.14
Landform:	Shoulder		10.00		cal Relief:		40054			Sample Point	u-155n45w28-b1
Slope (%):	3 - 7%	عاد مطلع من مانانام ما	Latitude: 48.22		Longitude			Datum:			
		onditions on the site			al ? (If no, ex	1		✓ Yes	□ No	Pr0tected002	
Are Vegetation		□, or Hydrology				Are	e normal circur ☑ Yes	nstances pro □ No	esent?	Township:	Dire
Are Vegetation		□, or Hydrology	Haturally pro	blemance				□ 140		Range:	Dir:
	Vegetation P		No					Hydric Soi	le Present?	2 No	
	drology Prese		No			Hydric Soils Present? Is This Sampling Poin			nt Within A Wetland? No		
Remarks:				mooth brome	The site	is at the	ton of a slone l				the Snake River and a
rtemants.	surrounding		orninated by or	nooth brome	. The site	is at the	top of a slope i	cading up ii		attr branch of	the Charle River and a
HYDROLOG		, wottaria.									
		iestere (Chaal, all	l that apply Mi	nimum of on		or two o		irod\.			
Primary		icators (Check all	i that apply; ivii	nimum of or	e primary	or two s	econdary requi	irea):	Secondary	,.	
	<u>′·</u>	Water			B11 - Salt	Crust			<u>Secondary</u>	<u>·</u> B6 - Surface S	Soil Cracks
	A2 - High Wa	ter Table			B13 - Aqua		ı				Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainag	
	B1 - Water M B2 - Sedimen				C2 - Dry S		ater Table spheres on Living	. Pooto (not till	, –	C3 - Oxidized C8 - Crayfish	Rhizospheres on Living Roots (till
	B3 - Drift Dep	•					educed Iron	1 Koots (not till	, –	_	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin					D2 - Geomorp	.
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu	
		on Visible on Aerial Im tained Leaves	nagery							D7 - Frost-He	aved Hummocks (LRR F)
	be - water-s	tailled Leaves									
Field Obser	vations:										
Surface Wat		Yes 🗆	Depth		(in.)						
Water Table		Yes	Depth		- (in.)			Wetland F	lydrology	Present?	N
Saturation P		Yes □	•		-						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
			Depth		_ (in.)	nections)	if available:				
Describe Rec	corded Data (s	stream gauge, moni	itoring well, aer	ial photos, pr	evious insp	pections),	, if available:				
	corded Data (s		itoring well, aer	ial photos, pr	evious insp	pections),	, if available:				
Describe Rec Remarks:	corded Data (s	stream gauge, moni	itoring well, aer	ial photos, pr	evious insp	pections),	, if available:				
Describe Rec Remarks:	corded Data (s No primary	stream gauge, moni	itoring well, aer	ial photos, pr	evious insposerved.	,		ndicators.)			
Describe Rec Remarks: SOILS Profile Descri	orded Data (s No primary ription (Descri	stream gauge, moni or secondary hydr	itoring well, aer	ial photos, prators were obtained in the indi	evious insposerved.	onfirm th	e absence of ir				
Describe Rec Remarks: SOILS Profile Descri	orded Data (s No primary ription (Descri	stream gauge, monior secondary hydroidelight in the depth need to the depth need in the secondary manager in the secondary hydroidelight in the secondary h	itoring well, aer	ial photos, prators were obtained in the indi	evious insposerved.	onfirm th	e absence of in Fore Lining, M=Mat				
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-21 NRCS Hydr	No primary ription (Description, D=Deplementation, D=Deplementatio	stream gauge, monitor secondary hydromore hydromore secondary hydromore hydr	itoring well, aer rological indica eeded to docur atrix, CS=Covered % 100 70	ial photos, protors were obtained the indicators are indicators are indicators are indicators are indicators are indicators are indicators.	evious insposerved. cator or cograins; Loca Moist) 5/4 2/1 not presented a cook Matrix	onfirm the stion: PL=P Mottl % 10 20 at):	e absence of incore Lining, M=Mates es Type C C	Location M M	L CL CL Indicators A9 - 1 cm N A16 - Coas	Vertical streaks	<u>c Soils¹</u> (LRR F, G, H)
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-21 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	stream gauge, monitor secondary hydromore ibe to the depth neterion, RM=Reduced Matrix Color (Moist) 2/1 3/1 Indicators (chapted on stice in Sulfide	itoring well, aer rological indica eeded to docur atrix, CS=Covered % 100 70	ial photos, protors were obtained. The ment the indicators and the color (Hue_2.5Y Hue_10YR S5 - Sandy R S6 - Stripped	evious insposerved. cator or cograins; Loca Moist) 5/4 2/1 not presentedox Matrix Mucky Miner	monfirm the stion: PL=P Mottl % 10 20 at):	e absence of incore Lining, M=Mates es Type C C	Location M M	L CL CL Indicators A9 - 1 cm N A16 - Coas S7 - Dark S	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-21 NRCS Hydr	Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	stream gauge, monitor secondary hydromore ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 Indicators (chapted on Strice in Sulfide in Layers (LRR F)	itoring well, aer rological indica eeded to docur atrix, CS=Covered % 100 70	color (Hue_2.5Y Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	evious insposerved. cator or configurations; Locations; Locations	monfirm the stion: PL=P Mottl % 10 20 at):	e absence of incore Lining, M=Mates es Type C C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressi ced Vertic	c Soils ¹ (LRR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-155n45w28-b1				
					•				
VEGETATION	(Species identified in all uppercase	are 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. $\underline{\qquad}$ $X 2 = \underline{\qquad}$ $\underline{\qquad}$ 10					
					OBL spp. 0				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $_{}$ 20				
1.					UPL spp. $ 80 $ $ x 5 = 400 $				
2.									
3.		<u> </u>			Total 105 (A) 490 (B)				
4.									
5.					Prevalence Index = B/A =				
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 (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	75	Υ	UPL					
2.	Cirsium arvense	15	N	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Melilotus officinalis	5	N	FACU	present, unless disturbed or problematic.				
4.	Phalaris arundinacea	5	N	FACW	Definitions of Vegetation Strata:				
5.	Medicago sativa	5	N	UPL					
6		1			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	[1			height (DBH), regardless of height.				
8.		1							
9.		1			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.		1							
11.									
12.		1			Herb - All herbaceous (non-woody) plants, regardless of size.				
13.					7,1				
14.	I .								
15.					Woody Vines - All woody vines, regardless of height.				
13.	Total Cover	105			vvoody villes - 7 iii woody villos, rogalaloss of floighti				
	Total Cover	= 105	_						
Maraka Mara Ota	(Dist size 200 ft and diss)								
Woody Vine Sti	ratum (Plot size: 30 ft. radius)								
1.	<u> </u>								
2.					Underskrift Vandelian Brassria				
3.]				Hydrophytic Vegetation Present?N				
5.									
4.	T : 10								
Danasadaa	Total Cover		a ta a a la Caralla	_					
Remarks:	The sample point is dominated by smooth	brome with n	nixed forb	S.					
Additional Remarks:									