WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/13/14	
Applicant:		Enbridge								County:	Marshall	
Investigators		MRK/BEH			_Subregior	`	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I51A						I Classification:	:		1	450 40 5 4	
Landform:	Shoulder		1 11 1 10 0 1		cal Relief:		0000000			Sample Point:	u-156n46w7-c1	
Slope (%):	0 - 2%		Latitude: 48.34		Longitude:			Datum:				
		nditions on the sit			al : (If no, exp			☑ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are	e normal circun	nstances pre □ No	esent?	Township:	Dim	
Are Vegetation		□, or Hydrology	□aturally pro	blematic!				□ I V O		Range:	Dir:	
Hydrophytic \			No					Hydric Soil	ls Present?	No		
	drology Prese		No No		_					nt Within A W	etland? No	
Remarks:		sample point is lo		ested area ur	nslone from	1 2 5625	onally-flooded		ripiirig r oiri	it vvitilli A vv	ctiana: NO	
rtomants.	The aplana	sample point is io		sted area ap	osiope iron	i a scas	onally hooded	basiii.				
HYDROLOG	Υ											
		ioatore (Chaok all	l that apply: Mi	nimum of on	o primary	or two o	ooondory roqui	rad).				
Primary:	•	icators (Check all	i that apply; ivii	nimum or or	ie primary	or two se	econdary requi	rea):	Secondary:			
	<u>·</u>	Water			B11 - Salt (Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa				B13 - Aqua				_		Vegetated Concave Surfa	асе
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M				C2 - Dry Se			Dooto (not till			Rhizospheres on Living R	toots (tilled)
	B2 - Sedimen B3 - Drift Dep				C3 - Oxidiz C4 - Presei		spheres on Living	Roots (not till	, <u> </u>	C8 - Crayfish E	burrows n Visible on Aerial Imager	rv.
	B4 - Algal Ma				C7 - Thin M				_	D2 - Geomorp		y
	B5 - Iron Dep	osits			Other (Expl	lain)				D5 - FAC-Neut	tral Test	
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	1
	B9 - Water-St	ained Leaves										
Field Observ	vations:											
Surface Water		Yes □	Donth		(in)							
Water Table		Yes □ Yes □	Depth Depth		_ (in.) _ (in.)			Wetland H	lydrology l	Present?	N	
		Yes \square	•		- : :							
Saturation Present? Yes Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
			<u> </u>		(in.)							
Describe Rec	orded Data (s	stream gauge, mon	itoring well, aer	ial photos, pr	evious insp	ections),	if available:					
	orded Data (s		itoring well, aer	ial photos, pr	evious insp	ections),	if available:					
Describe Reco	orded Data (s	stream gauge, mon	itoring well, aer	ial photos, pr	evious insp	ections),	if available:					
Describe Reco	orded Data (s No primary	stream gauge, mon or secondary hydr	itoring well, aer	ial photos, pr	evious insposerved.			ndicators.)				
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	stream gauge, mon	itoring well, aer	ial photos, prators were of	evious insposerved.	onfirm th	e absence of ir					
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	or secondary hydrobe to the depth neetion, RM=Reduced M	itoring well, aer	ial photos, prators were of	evious insposerved.	onfirm the	e absence of ir ore Lining, M=Matr					
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	or secondary hydrobe to the depth neetion, RM=Reduced M	itoring well, aer	ial photos, protors were obtained the ind	evious insposerved. icator or co	onfirm the	e absence of ir ore Lining, M=Matr	rix)				
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	or secondary hydrobe to the depth neetion, RM=Reduced M	itoring well, aer	ial photos, prators were of	evious insposerved. icator or co	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks	
Describe Reconstruction Remarks: SOILS Profile Descri (Type: C=Concert	orded Data (s No primary iption (Descri	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, aer	ial photos, protors were obtained the ind	evious insposerved. icator or co	onfirm the	e absence of ir ore Lining, M=Matr	rix)	FSL		Remarks	
Describe Reconstruction Remarks: SOILS Profile Descripe: C=Concert	orded Data (s No primary iption (Descri	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, aer rological indica eeded to docur latrix, CS=Covered	ial photos, protors were obtained the ind	evious insposerved. icator or co	onfirm the	e absence of ir ore Lining, M=Matr	rix)			Remarks	
Describe Reconstruction Remarks: SOILS Profile Descripation (Type: C=Concert) Depth (In.) 0-17	No primary iption (Description, D=Depl	or secondary hydrobe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1	itoring well, aer rological indica eeded to docur latrix, CS=Covered	ial photos, protors were obtained the ind	evious insposerved. icator or co	onfirm the	e absence of ir ore Lining, M=Matr	rix)	FSL		Remarks	
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Describe Recordance Remarks: SOILS Profile Descripation (Type: C=Concerdance) Depth (In.) 0-17 17-21	No primary iption (Description, D=Depl	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	itoring well, aer rological indica eeded to docur latrix, CS=Covered	ial photos, protors were obtained the index decided and color (evious insposerved. icator or cograins; Locat	onfirm the	e absence of ir ore Lining, M=Matr	rix)	FSL		Remarks	
Describe Recordance Remarks: SOILS Profile Descripation (Type: C=Concerdance) Depth (In.) 0-17 17-21	iption (Description, D=Deplementation, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	itoring well, aer rological indica eeded to docur atrix, CS=Covered % 100 100	ial photos, protors were objected and control of the index of the inde	cevious insposerved. icator or cograins; Locat (Moist) not present	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	FSL SC	or Problematic		
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Describe Reco	iption (Description, D=Deplementation, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain)	itoring well, aer rological indica eeded to docur atrix, CS=Covered % 100 100	ial photos, protors were of ment the inded/Coated Sand Color (S5 - Sandy F S6 - Stripped	revious insposerved. icator or cograins; Locat Moist) not present	mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹	
Describe Reco	iption (Description, Depointment Description, Depointment Description, Depointment Depointment Depointment Description, Depointment Description, Depointment Description, Depointment Description, Descr	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain)	itoring well, aer rological indica eeded to docur atrix, CS=Covered % 100 100	ial photos, protors were obtained the indicated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F	mot present Redox Matrix Mucky Minera	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ LRR F, G, H)	
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Describe Reco	iption (Description, Depoint Intration, Depoint Int	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain)	itoring well, aer rological indica eeded to docur atrix, CS=Covered % 100 100	ial photos, protors were obtained the indicated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F	mot present Redox Matrix Mucky Minera Gleyed Matrix d Matrix	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	Soils ¹ LRR F, G, H)	
Describe Reco	iption (Description, D=Deplementation, D=Depleme	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	itoring well, aer rological indica eeded to docur atrix, CS=Covered 100	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox E F7 - Deplete	mot present Redox Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	monfirm the ion: PL=Pi Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Describe Reco	iption (Description, Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) and Below Dark Surface ark Surface	itoring well, aer rological indica eeded to docur latrix, CS=Covered 100	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleter F6 - Redox F F7 - Depleter F8 - Redox F	revious insposerved. Cator or configuration of configura	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Describe Reco	iption (Description, Depleted No primary) iption (Description, Depleted No primary) Hue_10YR Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depleted A12 - Thick D S1 - Sandy M	stream gauge, monor secondary hydror secondary hydror be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/2 Indicators (chaic ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) in de Below Dark Surface ark Surface ucky Mineral	itoring well, aer rological indica eeded to docur latrix, CS=Covered 100	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleter F6 - Redox F F7 - Depleter F8 - Redox F	revious insposerved. Cator or configuration of configura	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Describe Reco	iption (Description, Depoint a liption, a	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surfactors (CRK Surface ucky Mineral Mucky Peat or Peat (L	itoring well, aer rological indica eeded to docur latrix, CS=Covered %	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleter F6 - Redox F F7 - Depleter F8 - Redox F	revious insposerved. Cator or configuration of configura	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	ESoils ¹ ELRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	st be present.
Describe Reco	iption (Description, Depoint attain, Depoint attain, Depoint attain, Depoint attain, Depoint attain, Depoint attain, Depoint at a Historia A1 - Historia A2 - Histic Ep A3 - Black Historia A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, aer rological indica eeded to docur latrix, CS=Covered %	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleter F6 - Redox F F7 - Depleter F8 - Redox F	revious insposerved. icator or cograins; Locat (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	st be present,
Describe Reco	Hue_10YR Hue_2.5Y Tic Soil Field 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	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, aer rological indica eeded to docur latrix, CS=Covered %	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleter F6 - Redox F F7 - Depleter F8 - Redox F	revious insposerved. icator or cograins; Locat (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	ESoils ¹ ELRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	st be present,
Describe Reco	iption (Description, Depoint attain), Depoint attain, Depoint attains, and Depo	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, aer rological indica eeded to docur latrix, CS=Covered %	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox E F7 - Deplete F8 - Redox E F16 - High P	mot present Redox Moisty Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	Mottle %	e absence of inore Lining, M=Matres es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	ESoils ¹ ELRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	st be present,
Describe Reco	iption (Description, Depleted No primary) Hue_10YR Hue_2.5Y Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type:	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, aer rological indica eeded to docur latrix, CS=Covered 100	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox E F7 - Depleted F8 - Redox E F16 - High P	mot present Redox Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	Mottle % t): al c ce sions (ML	e absence of inore Lining, M=Matrees Type RA 72, 73 of LRF	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetated or problematic.	ESoils ¹ ELRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	st be present,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-156n46w7-c1			
VEGETATIO		re non-native	species.)					
Tree Stratum ((Plot size: 30 ft. radius)				Deminance Test Workshoot			
1	Species Name	% Cover	Dominant Y	Ind.Status	Dominance Test Worksheet			
1. 2.	Quercus macrocarpa	35	<u>т</u> Ү	FACU	Number of Deminant Species that are ORL EACW or EAC:			
	Acer negundo	25		FAC	Number of Dominant Species that are OBL, FACW, or FAC:3(A)			
3.	Fraxinus pennsylvanica	15	N N	FAC	Total Number of Deminant Charles Associated Associated (D)			
4.	Ulmus americana	5	N	FAC	Total Number of Dominant Species Across All Strata: (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 42.9% (A/B)			
7.					Drovolones Index Merkobest			
8.					Prevalence Index Worksheet			
9.		1			Total % Cover of: Multiply by:			
10.	Total Cover	- 90			OBL spp. $0 x 1 = 0$ FACW spp. $0 x 2 = 0$			
	Total Cover =	= 80	_		FACW spp. $0 \times 2 = 0$			
Conding/Charth	Chrotium (Diet einer 45 ft rediive)				FAC spp. 130 $\times 3 = 390$			
	Stratum (Plot size: 15 ft. radius)	15	V	FAC	FACU spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$			
1. 2.	Ulmus americana	5	<u> Т</u> Ү	FACU	UPL spp. $0 x 5 = 0$			
3.	Prunus virginiana	5	I	FACU	Total 240 (A) 930 (B)			
4.		1			Total <u>240</u> (A) <u>830</u> (B)			
5.					Drovolones Index D/A 2.459			
		1			Prevalence Index = B/A = 3.458			
6. 7.] 1						
		 			Hydrophytia Vagatatian Indicators			
8. 9.		1			Hydrophytic Vegetation Indicators:			
10.		l			Rapid Test for Hydrophytic Vegetation			
10.	_l Total Cover =	= 20			Dominance Test is > 50% Prevalence Index is ≤ 3.0 *			
	Total Cover =	- 20						
	Di ()				Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)		Υ	EAGLI	Problem Hydrophytic Vegetation (Explain) *			
1.	Carex sprengelii	50	•	FACU	* Indicators of budgio call and watland budgelong mount be			
2.	Hackelia virginiana	15	Y	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Phryma leptostachya	5	N	FACU	·			
4.	Clematis virginiana	5	N	FAC	Definitions of Vegetation Strata:			
5.					Trac			
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.					Courting (Ob mult - Woody plants loss than 2 in DPH regardless of height			
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.					Herb - All herbaceous (non-woody) plants, regardless of size.			
12.					Herb - All herbaceous (horr-woody) plants, regardless of size.			
13.								
14.					NATIONAL AND			
15.	T				Woody Vines - All woody vines, regardless of height.			
	Total Cover =	= 75						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.	Parthenocissus vitacea	65	Υ	FAC				
2.					II. Isaala da Waxadadaa Baasaado - N			
3.					Hydrophytic Vegetation Present?N			
5.								
4.	Total Cover	CE						
Damarka	Total Cover =		سيحا امصم	- ali				
Remarks:	The upland is dominated by Sprengel's sed	ge, woodbin	ne and bur	oak.				
Additional Remarks:								