WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/30/14
Applicant:	Enbridge BEH/BCS/MRK				n /MI DA	or I DD\	MI DA 56		County: State:	Kittson MN	
Investigators: BEH/BCS/MRK Soil Unit: I132A				Subregion (MLRA or LRR): MLRA 56 NWI Classification:						State.	IVIIN
Landform:					cal Relief:		· Olacomoation			Sample Point:	w-159n49w9-b1
Slope (%):										1	
Are climatic/h	hydrologic co	nditions on the site t	typical for	this time of ye	ar? (If no, ex				□No	Section:	
Are Vegetation		☐ or Hydrology				Are	e normal circun	•	esent?	Township:	
Are Vegetation		☐ or Hydrology	□ aturally p	roblematic?			✓ Yes	□No		Range:	Dir:
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes											
			Yes		_						atlanda Vac
Wetland Hyd Remarks:			Yes		a wheat f	iold Cat	tail spedlings i	redroot pigy	mpling Polit	t Within A W	etland? Yes ophytes are present.
Remarks.	THE WELIAND	i is a seasonally-lioc	Jueu Dasiii	located within	ı a wileat i	ieiu. Cat	tali seeuliligs, i	euroot pigw	reeu, anu si	callered riyur	opriyles are present.
HYDROLOG	Y										
		esters (Chask all th	act canbe	dinimum of o	o primarı	or two o	ooondon, roqui	rod\.			
Primary:		cators (Check all the	iat apply; i	viinimum oi oi	ie primary	or two s	econdary requi	rea):	Secondary:		
	A1 - Surface \	Vater			B11 - Salt	Crust				B6 - Surface S	Soil Cracks
A2 - High Water Table					B13 - Aqua						Vegetated Concave Surface
	☐ A3 - Saturation ☐ B1 - Water Marks				C1 - Hydro C2 - Dry S			B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled		
	B2 - Sediment						spheres on Living	Roots (not till		C8 - Crayfish E	
	B3 - Drift Dep	osits			C4 - Prese	nce of Re	duced Iron			C9 - Saturation	n Visible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin N		ace			D2 - Geomorp D5 - FAC-Neu	
	B5 - Iron Depo	วรแร n Visible on Aerial Imad	nerv		Other (Exp	nam)					trai rest aved Hummocks (LRR F)
	B9 - Water-St		,.,						_	2	
<u> </u>											
Field Observations:											
Surface Water	er Present?		Dep	th:	(in.)			Wetland F	lydrology l	Present?	Υ
Water Table		Yes 🔲	Dep	th:				**Ctiana i	iyarology i	i resenti	<u> </u>
Saturation Present? Yes Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s	tream gauge, monito	ring well, a	erial photos, p	evious insp	ections),	if available:				
Remarks:		tream gauge, monito s were observed ald						rface.			
Remarks:								rface.			
Remarks:	Drift deposit	s were observed ald	ong with so	oil cracks and	a sparsely	-vegetat	ed concave su				
Remarks: SOILS Profile Descri	Drift deposit	s were observed alcoholes were	ong with so	oil cracks and	a sparsely	v-vegetat	ed concave sur	ndicators.)			
Remarks: SOILS Profile Descri	Drift deposit	s were observed ald	ong with so	oil cracks and	a sparsely	v-vegetat	ed concave sur	ndicators.)			
Remarks: SOILS Profile Descri	Drift deposit	s were observed alcoholes were	ong with so	oil cracks and	a sparsely	v-vegetat	ed concave sur e absence of ir ore Lining, M=Matr	ndicators.)			
Remarks: SOILS Profile Descri	Drift deposit	be to the depth need etion, RM=Reduced Matr	ong with so	oil cracks and ument the ind red/Coated Sand	a sparsely icator or co	onfirm th	ed concave sur e absence of ir ore Lining, M=Matr	ndicators.)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	Drift deposit	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist)	ded to doc ix, CS=Cove	ument the ind red/Coated Sand Color (0)	a sparsely icator or co Grains; Loca Moist)	onfirm th	e absence of ir ore Lining, M=Matr es Type	ndicators.) rix) Location	SIC		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-13 13-21	ption (Descrintration, D=Depleted Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 2/1 4/1 2/1	ded to doc ix, CS=Cove // // // // // // // // // // // // /	ument the ind red/Coated Sand Color (0 0 8 Hue_10YF)	a sparsely icator or cc Grains; Loca Moist) 5/6	monfirm the tion: PL=P Mottle % 2	e absence of ir ore Lining, M=Matr es Type	Location M	SIC SIC SIC SIC SIC		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-13 13-21 NRCS Hydr	ption (Descrintration, D=Depleted Hue 10YR Hue 2.5Y Hue 10YR Hue 10YR Hue 2.5Y Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/1 2/1 4/1 2/1 Indicators (checking)	ded to doc ix, CS=Cove	ument the indired/Coated Sand Color (0) Hue_10YF Hue_10YF Color (1) Solution (1) Solution (1) Color (1)	a sparsely icator or co Grains; Loca Moist) 5/6 5/6 not presen	Mottle 2 1	e absence of ir ore Lining, M=Matr es Type C	Location M	SIC SIC SIC SIC SIC SIC SIC A9 - 1 cm M A16 - Coast		c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-13 13-21 NRCS Hydr	ption (Descrintration, D=Deplete Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y Hue_10YR Hue_10	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 2/1 4/1 2/1 Indicators (checking and sulfide in Sulfide	ded to docdix, CS=Cove 9/ 10 88 11 9/ 5 ck here if i	ument the ind red/Coated Sand Color (0) Hue_10YF Hue_10YF S5 - Sandy F S6 - Strippe F1 - Loamy F2 - Loamy	a sparsely icator or cograins; Loca Moist) 1 5/6 1 5/6 R 5/6 Redox d Matrix Mucky Miner. Gleyed Matri	onfirm the tion: PL=P Mottle % 2 1 1 tt):	e absence of ir ore Lining, M=Matr es Type C	Location M M	SIC SIC SIC SIC SIC SIC SIC A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-13 13-21 NRCS Hydr	ption (Descrintration, D=Deplet Hue_10YR Hue_2.5Y Hue_10YR Hue_10Y	be to the depth need betton, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/1 2/1 4/1 2/1 Indicators (checking the control of the contr	ded to doc ix, CS=Cove // // // // // // // // // // // //	ument the indired/Coated Sand Color (0) Hue_10YF Hue_10YF S5 - Sandy F S6 - Stripped F1 - Loamy (2) F2 - Loamy (2) F3 - Deplete F6 - Redox [3]	icator or co Grains; Loca Moist) R 5/6 R 5/6 not presen Redox I Matrix Mucky Miner. Gleyed Matrix Dark Surface	Mottle Mottle 2 1 1 1 1 1 1 1 1 1 1 1 1	e absence of ir ore Lining, M=Matr es Type C	Location M M	SIC SIC SIC SIC SIC SIC A9 - 1 cm M A16 - Coast S7 - Dark S1 F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material	C Soils ¹ [LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-13 13-21 NRCS Hydr	ption (Descrintration, D=Deplet Hue_10YR Hue_2.5Y Hue_10YR Hue_10Y	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 2/1 4/1 2/1 Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) dellow Dark Surface	ded to docdix, CS=Cove // 10 88 10 94 5 ck here if i	ument the indired/Coated Sand Color of the	a sparsely icator or cc Grains; Loca Moist) 5/6 5/6 R 5/6 Redox I Matrix Mucky Miner. Gleyed Matrix Dark Surfaced Dark Surfaced Dark Surfaced	Mottle Mottle 2 1 1 1 1 1 1 1 1 1 1 1 1	e absence of ir ore Lining, M=Matr es Type C	Location M M	SIC SIC SIC SIC SIC SIC SIC SIC Indicators 1 A9 - 1 cm A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ded Vertic	C Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-13 13-21 NRCS Hydr	ption (Descrintration, D=Deplete Intration, D=Deple	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 2/1 4/1 2/1 Indicators (checking depth of the color) ipedon titic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ark Surface aucky Mineral aucky Peat or Peat (LRF	ded to docdix, CS=Cove // 10 88 10 5 ck here if i	ument the ind red/Coated Sand Color (0) Hue_10YF Hue_10YF S5 - Sandy F S6 - Stripper F1 - Loamy F2 - Loamy F2 - Loamy F1 - Color F1 - Colo	a sparsely icator or co Grains; Loca Moist) 1 5/6 1 5/6 R 5/6 Redox d Matrix Mucky Miner. Gleyed Matrix d Matrix Oark Surface d Dark Surface Depressions	Pregetation of the control of the co	e absence of ir ore Lining, M=Matr	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S1 F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-13 13-21 NRCS Hydr	ption (Descrintration, D=Depleter Intration,	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 2/1 4/1 2/1 Indicators (checking the color of th	ded to doc ix, CS=Cove % 10 88 10 94 ck here if i	ument the indired/Coated Sand Color (0) Hue_10YF Hue_10YF Hue_10YF S5 - Sandy F S6 - Strippey F1 - Loamy (F1 - Loamy (F1 - Loamy (F1 - Loam) (F1	a sparsely icator or co Grains; Loca Moist) R 5/6 R 5/6 Redox I Matrix Mutrix Miners Gleyed Matrid Matrix Dark Surface d Dark Surface	Mottle Mottle	e absence of irrore Lining, M=Matrices Type C C C Hydric So	Location M M R H)	Indicators 1 A9 - 1 cm M A16 - Coast ST - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (Prairie Redox	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-159n49w9-b1					
					·					
VEGETATION (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft. radius)										
Tree otratain (Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.	<u>operice riame</u>	70 00101	Dominant	<u>ma.otatao</u>						
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)					
3.					(1)					
4.	_				Total Number of Dominant Species Across All Strata: 2 (B)					
5.					(B)					
6.	_				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)					
7.					(14D)					
8.					Prevalence Index Worksheet					
9.										
					Total % Cover of: Multiply by:					
10.					OBL spp. 7 x 1 = 7					
	Total Cover =	0			FACW spp. 2 x 2 = 4					
					FAC spp. 0 x 3 = 0					
	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20					
1.					UPL spp. 0					
2.										
3.					Total <u>14</u> (A) <u>31</u> (B)					
4.										
5.					Prevalence Index = B/A = 2.214					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *					
	·		_		Morphological Adaptations (Explain) *					
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Typha angustifolia	5	Υ	OBL						
2.	Amaranthus retroflexus	3	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Artemisia biennis	2	N	FACU	present, unless disturbed or problematic.					
4.	Epilobium coloratum	2	N	OBL	Definitions of Vegetation Strata:					
5.	Veronica peregrina	1	N	FACW	201111110110 01 109011111011					
6	Puccinellia distans	1	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.			- ''	171011	height (DBH), regardless of height.					
8.				_						
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.				_	55pg. 5 5					
11.										
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
					(161b - 1111 - 1					
13. 14.										
				_	Woody Vines - All woody vines, regardless of height.					
15.	T-1-1 C	4.4			**Outy *IIIGS 11000) 1.1100, 10gardious of Holgin.					
	Total Cover =	14	_							
M1 M 6:	ontine (Distriction 20 % on the color									
	atum (Plot size: 30 ft. radius)									
1.										
2.					Hardwork die Vertrie Britis V					
3.					Hydrophytic Vegetation Present? Y					
5.	ļ.									
4.				_						
	Total Cover =	0								
Remarks:	The wetland is sparsely vegetated by cattail s	seedlings,	redroot pi	gweed, an	d scattered hydrophytes.					
Additional Remarks:										