## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		SPP								Date: <u>06/23/14</u>	
Applicant:		Enbridge				<b>/-</b>		MLRA 56		County: Marshall	
Investigators		EAB/RAJ			_Subregio	•		State: MN			
Soil Unit:	I133A				aal Dali (		Classification	:		Wetland ID:	
Landform:	Depression 20/		1 - 2000 1 - 40 - 50		cal Relief:		220	D - 1		Sample Point: w-158n48w5-b1	
Slope (%):	0 - 2%	nditions on the city	Latitude: 48.52		Longitude:			Datum:		Community ID:	
		nditions on the site			(If no, expla			□ Yes	☑ No	Section:	
Are Vegetation		☑, or Hydrology	•			Are	normal circun		esent?	Township:	
Are Vegetation			□aturally pro	obiematic?				□ No		Range: Dir:	
SUMMARY C			Vac					Lludria Cail	o Drocont?	Voc	
Hydrophytic \	•		Yes		-				s Present?		
Wetland Hyd			Yes	oion within o	whoat field	It ovton	do into on ovo				
Remarks:			•	SSION WILLIIN a	wneat neid	. It exteri	ius into an exc	avaleu 10au	Side diton.	Some annual weedy species are present and	
HADBOLOGA	•	he wetland have b	een tilled.								
HYDROLOG'											
		icators (Check all	that apply; M	inimum of one	primary o	r two sec	condary require	ed):			
Primary:		A		_	D44 0 14				Secondary:		
	A1 - Surface \				B11 - Salt ( B13 - Aqua					B6 - Surface Soil Cracks	
	A2 - High Wat A3 - Saturatio				C1 - Hydro		e Odor	B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns			
	B1 - Water Ma				C2 - Dry Se					C3 - Oxidized Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen	t Deposits					pheres on Living	Roots (not till	€ □	C8 - Crayfish Burrows	
✓	B3 - Drift Dep				C4 - Prese					C9 - Saturation Visible on Aerial Imagery	
<b>☑</b>	B4 - Algal Mat				C7 - Thin N		ice		☑	D2 - Geomorphic Position	
	B5 - Iron Depo	osits In Visible on Aerial Im	agery		Other (Exp	aın)				D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)	
	B9 - Water-St		agery						_	DI - 1 10st-Heaved Hummocks (ERRT)	
Field Observ	vations:										
Surface Wate	er Present?	Yes 🗆	Dep	th:	(in.)						
Water Table		Yes □	Dep		(in.)			Wetland H	lydrology l	Present? Y	
Saturation Pr		Yes ☑	Dep		- (in.)					<del>_</del>	
Describe Reco	orded Data (s	tream gauge moni	toring well ae	rial photos, pre	vious inspe	ctions) if	l f available:				
Remarks:		Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks: Saturation has resulted from recent heavy rains. Surface water is present in some portions of the wetland. Algal crusts and drift deposits are present.											
		nas resulted from r	ecent heavy i	ains. Surface	water is pi	esent in	some portions	s of the wetla	aria. Aligar o	rusts and unit deposits are present.	
SOILS		nas resulted from r	ecent heavy i	ains. Surrace	water is pi	esent in	some portions	s of the wetla	aria. 7 ligar o	rusts and unit deposits are present.	
SOILS Profile Descri		has resulted from r	•		·		·		and. Angar o	rusts and unit deposits are present.	
Profile Descri	ption (Descri		eded to docu	ment the indic	ator or cor	nfirm the	absence of inc	dicators.)	and. Algar o	rusts and unit deposits are present.	
Profile Descri	ption (Descri	be to the depth ne etion, RM=Reduced Ma	eded to docu	ment the indic	ator or cor	on: PL=Por	absence of increase Lining, M=Matrix	dicators.)	T. Trigal o	Tusts and unit deposits are present.	
Profile Descri (Type: C=Concer	ption (Descri	be to the depth ne etion, RM=Reduced Ma Matrix	eded to docu atrix, CS=Covere	ment the indic d/Coated Sand G	ator or cor rains; Locatio	nfirm the on: PL=Por Mottle	absence of inc e Lining, M=Matrix	dicators.)			
Profile Descri (Type: C=Concer Depth (In.)	iption (Descri	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Covere	ment the indic	ator or cor rains; Locatio	on: PL=Por	absence of increase Lining, M=Matrix	dicators.)	Texture	Remarks	
Profile Descri (Type: C=Concer	ption (Descri	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1	eded to docu atrix, CS=Covere	ment the indic d/Coated Sand G Color (	ator or cor	nfirm the on: PL=Por Mottle	absence of inc e Lining, M=Matrix	dicators.)	Texture C		
Profile Descri (Type: C=Concer Depth (In.)	iption (Descri	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1	eded to docu atrix, CS=Covere	ment the indic d/Coated Sand G	ator or cor	nfirm the on: PL=Por Mottle	absence of inc e Lining, M=Matrix	dicators.)			
Profile Descri (Type: C=Concer Depth (In.)	iption (Descri	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1	eded to docu atrix, CS=Covere	ment the indic d/Coated Sand G Color (	mator or cor rains; Location Moist)	Mottle	absence of increase absence ab	Location	Texture C		
Profile Descri (Type: C=Concer Depth (In.) 0-8 0-8	htration (Descri	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  4/1 2/1	eded to docu etrix, CS=Covere % 45 50	ment the indiced/Coated Sand Good Color (	mator or cor rains; Location Moist)	Mottle	absence of increase Lining, M=Matrixes  Type  C	Location	Texture C C		
Profile Descri (Type: C=Concer Depth (In.) 0-8 0-8	htration (Descri	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  4/1 2/1	eded to docu etrix, CS=Covere % 45 50	ment the indiced/Coated Sand Good Color (	mator or cor rains; Location Moist)	Mottle	absence of increase Lining, M=Matrixes  Type  C	Location	Texture C C		
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Profile Descri (Type: C=Concer Depth (In.) 0-8 0-8	Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1 2/1 2/1	eded to docu atrix, CS=Covere % 45 50 90	ment the indiced/Coated Sand Good Color (	Moist)  3/4  4/1	Mottle % 5 10	absence of increase Lining, M=Matrixes  Type  C	Location	Texture C C		
Profile Descri (Type: C=Concer Depth (In.) 0-8 0-8 8-18	Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1 2/1 2/1	eded to docu atrix, CS=Covere % 45 50 90	ment the indiced/Coated Sand Good Color ( Hue_10YR Hue_10YR	Moist)  3/4  4/1	Mottle % 5 10	absence of increase Lining, M=Matrix es Type C D	Location	Texture C C		
Profile Descri (Type: C=Concer Depth (In.) 0-8 0-8 8-18	Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1 2/1 2/1	eded to docu atrix, CS=Covere % 45 50 90	ment the indiced/Coated Sand Good Color ( Hue_10YR Hue_10YR	Moist)  3/4 4/1  ot present)	Mottle % 5 10	absence of increase Lining, M=Matrix es Type C D	Location  M M	Texture C C C Indicators f	Remarks  For Problematic Soils  Luck (LRR I, J)	
Profile Descri (Type: C=Concer  Depth (In.)  0-8  0-8  8-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Marix  Matrix Color (Moist)  4/1 2/1 2/1 Indicators (characters)	eded to docu etrix, CS=Covere % 45 50 90 eck here if in	ment the indice d/Coated Sand G  Color (  Hue_10YR  Hue_10YR  dicators are not see S5 - Sandy R S6 - Stripped	Moist)  3/4 4/1  ot present)  edox Matrix	Mottle % 5 10	absence of increase Lining, M=Matrix es Type C D	Location  M  M	Texture C C C Indicators f A9 - 1cm Mt A16 - Cost F	Remarks  For Problematic Soils  Luck (LRR I, J)  Prairie Redox (LRR F, G, H)	
Profile Descri (Type: C=Concer  Depth (In.)  0-8  0-8  8-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	Matrix Color (Moist)  4/1 2/1 2/1 ipedon	eded to docu atrix, CS=Covere % 45 50 90 eck here if in	Color (  Hue_10YR  Hue_10YR  Hue_10YR  Gicators are not see S5 - Sandy R S6 - Stripped F1 - Loamy N	Moist)  3/4 4/1  ator or cor rains; Location  Moist)  3/4 4/1  ator or cor  All Moist  A	Mottle % 5 10	absence of increase Lining, M=Matrix es Type C D	Location  M  M	Texture C C C C Indicators f A9 - 1cm Mu A16 - Cost F S7 - Dark St	Remarks  For Problematic Soils  Uck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)	
Profile Descri (Type: C=Concer  Depth (In.)  0-8  0-8  8-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth ne etion, RM=Reduced Marix  Matrix  Color (Moist)  4/1  2/1  2/1  Indicators (chain ipedon stice in Sulfide	eded to docu atrix, CS=Covere % 45 50 90 eck here if in	ment the indice d/Coated Sand General Color (  Hue_10YR  Hue_10YR  dicators are not see the se	Moist)  3/4 4/1  ot present)  dedox Matrix Muck Mineral Gleyed Matrix	Mottle % 5 10	absence of increase Lining, M=Matrix es Type C D	Location  M  M	Texture C C C C A9 - 1cm Mu A16 - Cost F S7 - Dark St F16 - High F	Remarks  For Problematic Soils  Luck (LRR I, J)  Prairie Redox (LRR F, G, H)  Purface (LRR G)  Plains Depressions (LRR H, outisde MLRA 72, 73)	
Profile Descri (Type: C=Concer  Depth (In.)  0-8  0-8  8-18  NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	Matrix Color (Moist)  4/1 2/1 2/1 Indicators (chair)	eded to docu etrix, CS=Covere % 45 50 90 eck here if in	Color (  Hue_10YR  Hue_10YR  Hue_10YR  Gicators are not see the see th	Moist)  3/4 4/1  at present)  dedox Matrix Muck Mineral Gleyed Matrix Matrix	Mottle % 5 10	absence of increase Lining, M=Matrix es Type C D	Location  M  M	Texture C C C C A9 - 1cm Mu A16 - Cost F S7 - Dark St F16 - High F F18 - Reduce	Remarks  For Problematic Soils  Luck (LRR I, J)  Prairie Redox (LRR F, G, H)  Luck (LRR G)  Plains Depressions (LRR H, outisde MLRA 72, 73)  Red Vertic	
Profile Descri (Type: C=Concer  Depth (In.)  0-8  0-8  8-18  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 Mue	Matrix Color (Moist) 4/1 2/1 2/1 2/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eded to docu atrix, CS=Covere  % 45 50 90 eck here if in	ment the indice d/Coated Sand G  Color (  Hue_10YR  Hue_10YR  Hue_10YR  dicators are not see the seed of the seed	Moist)  3/4 4/1  ator or cor rains; Location  Moist)  cot present)  dedox Matrix Muck Mineral Cleyed Matrix Matrix Dark Surface	Mottle % 5 10	absence of increase Lining, M=Matrix es Type C D	Location  M  M	Indicators f A9 - 1cm Mo A16 - Cost F S7 - Dark So F16 - High F F18 - Reduce TF2 - Red P	Remarks  For Problematic Soils  Luck (LRR I, J)  Prairie Redox (LRR F, G, H)  Purface (LRR G)  Plains Depressions (LRR H, outisde MLRA 72, 73)  Deed Vertic  Parent Material	
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Profile Descri (Type: C=Concer  Depth (In.)  0-8  0-8  8-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	Matrix Color (Moist)  4/1 2/1 2/1 2/1  Indicators (chaine)  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface uck Mineral lucky Peat or Peat (L	eded to docu eatrix, CS=Covere  % 45 50 90 eck here if in	ment the indice d/Coated Sand G  Color (  Hue_10YR  Hue_10YR  Hue_10YR  dicators are not see the seed of the seed	Moist)  3/4 4/1  ator or cor brains; Location  Moist)  3/4 4/1  ator or cor brains; Location  Moist)  3/4 4/1  ator or cor  Moist)  Sedox  Matrix  M	Mottle % 5 10	absence of increase Lining, M=Matrix es  Type  C  D	Location  M  M  ——————————————————————————————	Texture C C C C A9 - 1cm Mu A16 - Cost F S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	Remarks  For Problematic Soils¹  Luck (LRR I, J)  Prairie Redox (LRR F, G, H)  Lurface (LRR G)  Plains Depressions (LRR H, outisde MLRA 72, 73)  Leed Vertic  Parent Material  Shallow Dark Surface  Shain in Remarks)	
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Profile Descri (Type: C=Concer  Depth (In.)  0-8  0-8  8-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	Matrix  Color (Moist)  4/1  2/1  2/1  2/1  Indicators (chaise)  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface uck Mineral lucky Peat or Peat (LR) cky Peat or Peat (LR)	eded to docu eatrix, CS=Covere  % 45 50 90 eck here if in	ment the indice d/Coated Sand G  Color (  Hue_10YR  Hue_10YR  Hue_10YR  dicators are not see the seed of the seed	Moist)  3/4 4/1  ator or cor brains; Location  Moist)  3/4 4/1  ator or cor brains; Location  Moist)  3/4 4/1  ator or cor  Moist)  Sedox  Matrix  M	Mottle % 5 10	absence of increase Lining, M=Matrix es  Type  C  D	Location  M  M  ——————————————————————————————	Texture C C C C A9 - 1cm Ma A16 - Cost F S7 - Dark Sa F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	Remarks  For Problematic Soils¹  Luck (LRR I, J)  Prairie Redox (LRR F, G, H)  Lurface (LRR G)  Plains Depressions (LRR H, outisde MLRA 72, 73)  Leed Vertic  Parent Material  Shallow Dark Surface  Shain in Remarks)	
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Project/Site:	: SPP					Sample Point: w-158n48w5-b1
,						
<b>VEGETATION</b>	、 •	all uppercase are no	on-native s	species.)		
Tree Stratum (	(Plot size: 30 ft. radius)					
	Species Name		% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					!	
2.					!	Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.						
4.						Total Number of Dominant Species Across All Strata:5(B)
5.						
6.	1					Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)
7.	i e					
8.	<u>'</u>					Prevalence Index Worksheet
9.	<del></del>					Total % Cover of: Multiply by:
10.	<del></del>					$OBL spp. \qquad 0 \qquad x \ 1 = \qquad 0$
		Total Cover =	0			FACW spp. $20$ $\times$ $2 = 40$
				_	1	FAC spp. $\frac{20}{10}$ $\times 3 = \frac{30}{30}$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)					FACU spp. $\frac{100}{25}$ $\frac{100}{25}$
1.	Statem (1 lot olzo: 10 th table)					UPL spp. $0 \times 5 = 0$
2.						
3.	+					Total <u>55</u> (A) <u>170</u> (B)
4.	<del> </del>					10tal(A)(B)
5.						Provolonos Indox - P/A - 2.001
6.					!	Prevalence Index = B/A = 3.091
					!	
7.					!	Understie Veretetien Indicators
8.						Hydrophytic Vegetation Indicators:
9.					!	Rapid Test for Hydrophytic Vegetation
10.					'	X Dominance Test is > 50%
		Total Cover =	0	_	l	Prevalence Index is ≤ 3.0 *
					'	Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				'	Problem Hydrophytic Vegetation (Explain) *
1.	Chenopodium album		10	Υ	FACU	
2.	Polygonum achoreum		10	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Rumex stenophyllus		10	Υ	FACW	present, unless disturbed or problematic.
4.	Hordeum jubatum		10	Υ	FACW	Definitions of Vegetation Strata:
5.	Echinochloa crus-galli		10	Υ	FAC	1
6	Ambrosia artemisiifolia		5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.						height (DBH), regardless of height.
8.						1
9.	1					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.	<u> </u>					Π <b>ΕΙ Ο</b>
14.	1					1
	A.					Manda Vines All woody vines regardless of height
15.	<u> </u>	= 110			'	Woody Vines - All woody vines, regardless of height.
		Total Cover =	55	_	1	
					'	
Woody Vine St	tratum (Plot size: 30 ft. radius)				'	
1.					'	
2.					!	
3.					'	Hydrophytic Vegetation Present?Y
5.						
4.					! !	
		Total Cover =	0			
Remarks:	The vegetation is highly disturbe	ed and sparse a	t the sam	nple site.		
				•		
Additional R	Jamarke:					
Additional	reliains.					