WETLAND DETERMINATION DATA FORM Great Plains Region

		1.05	ı							T	20/00/11
Project/Site:		L3R								Date:	09/23/14
Applicant:		Enbridge			0.1	/A 41 D A	L DD)	MI DA 50		County:	Marshall
Investigators		NTT/BEH			_Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	153A						I Classification:	:			455 45 00 4
Landform:	Depression		10.04		cal Relief:		004			Sample Point	w-155n45w33-a1
Slope (%):	16 - 25%		tude: 48.210		_	-96.434		Datum:			
		onditions on the site typ			ar? (If no, ex				□ No	Section:	
Are Vegetation			•	disturbed?		Are	e normal circun	•	esent?	Township:	
Are Vegetation		, , , , , , , , , , , , , , , , , , , ,	turally prob	olematic?			✓ Yes	□ No		Range:	Dir:
SUMMARY (
Hydrophytic '			Yes		_			Hydric Soil			
Wetland Hyd			Yes							t Within A W	etland? Yes
Remarks:	The wetlan	d is a wet meadow loca	ated within	a roadside	ditch and	dominate	ed by prairie co	rd grass and	d reed cana	ry grass.	
HYDROLOG	Υ										
Wetland Hy	drology Ind	licators (Check all that	t apply: Mir	nimum of or	ne primary	or two se	econdary requi	red):			
Primary	•	iloatoro (orrook air triat	cappiy, iviii		io primary	01 100 01	coordary roqui	100).	Secondary:		
<u> </u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa	ater Table			B13 - Aqua	atic Fauna				B8 - Sparsely	Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainage	
	B1 - Water M				C2 - Dry S			Description (see City			Rhizospheres on Living Roots (tilled)
	B2 - Sedimer B3 - Drift Der	•					spheres on Living duced Iron	Roots (not tille		C8 - Crayfish I	
	B4 - Algal Ma				C4 - Flese					D2 - Geomorp	n Visible on Aerial Imagery
	B5 - Iron Dep				Other (Exp		200		<u></u>	D5 - FAC-Neu	
		on Visible on Aerial Imager	У	_	(,					aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves	•								,
Field Obser	vations:										
Surface Wat	er Present?	Yes □	Depth:		(in.)			Watlend II		D====+2	V
Water Table	Present?	Yes □	Depth:		– (in.)			Wetland H	iyarology i	Present?	Υ
Saturation P	resent?	Yes □	Depth:		– (in.)						
			-		_ ` ′						
Doscribo Poc	orded Data (stroom gougo monitorin	a well peri	al photos pr	ovious incr	octions)	if available:				
	·	stream gauge, monitorin						dua a butia u a		d landa ana	n a citia n
Describe Rec Remarks:	·	stream gauge, monitorin hydrology indicators a						drophytic ve	getation an	d landscape	position.
Remarks:	·							drophytic ve	getation an	d landscape	position.
Remarks:	No primary	hydrology indicators ar	re present.	Wetland h	ydrology is	s assume	ed based on hyd		getation an	d landscape	position.
Remarks: SOILS Profile Descri	No primary	hydrology indicators are	re present.	Wetland hy	ydrology is	assume	ed based on hyde	ndicators.)	getation an	d landscape	position.
Remarks: SOILS Profile Descri	No primary	hydrology indicators ar	re present.	Wetland hy	ydrology is	assume	ed based on hyde	ndicators.)	getation an	d landscape	position.
Remarks: SOILS Profile Descri	No primary	hydrology indicators and indicators	re present.	Wetland hy	ydrology is	onfirm the	ed based on hyde e absence of ir ore Lining, M=Matr	ndicators.)	getation an	d landscape	position.
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators and indicators	d to docum	Wetland hynent the ind /Coated Sand	ydrology is icator or co Grains; Loca	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr	ndicators.)		d landscape	
Remarks: SOILS Profile Descri	No primary	hydrology indicators and indicators	re present.	Wetland hy	ydrology is icator or co Grains; Loca	onfirm the	ed based on hyde e absence of ir ore Lining, M=Matr	ndicators.)	getation an	d landscape	position. Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators and indicators	d to docum	Wetland hynent the ind /Coated Sand	ydrology is icator or co Grains; Loca	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr	ndicators.)		d landscape	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators and indicators	d to docum	Wetland hynent the ind /Coated Sand	ydrology is icator or co Grains; Loca	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr	ndicators.)		d landscape	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators and indicators	d to docum	Wetland hynent the ind /Coated Sand	ydrology is icator or co Grains; Loca	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr	ndicators.)		d landscape	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators and indicators	d to docum	Wetland hynent the ind /Coated Sand	ydrology is icator or co Grains; Loca	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr	ndicators.)		d landscape	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators and indicators	d to docum	Wetland hynent the ind /Coated Sand	ydrology is icator or co Grains; Loca	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr	ndicators.)		d landscape	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators and indicators	d to docum	Wetland hynent the ind /Coated Sand	ydrology is icator or co Grains; Loca	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr	ndicators.)		d landscape	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators and ibe to the depth needed letion, RM=Reduced Matrix, Matrix Color (Moist)	d to docum CS=Covered	Wetland hynent the ind /Coated Sand	icator or congrains; Locations; L	onfirm the tion: PL=Pe	ed based on hyde e absence of in ore Lining, M=Matr	ndicators.)		d landscape	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators and ibe to the depth needed letion, RM=Reduced Matrix, Matrix Color (Moist)	d to docum CS=Covered	wetland hy	icator or congrains; Locations; L	onfirm the tion: PL=Pe	ed based on hydee absence of in ore Lining, M=Matrees Type	ndicators.)	Texture	d landscape	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Description, D=Dep	hydrology indicators are libe to the depth needer letion, RM=Reduced Matrix, Matrix Color (Moist) I Indicators (check	d to docum CS=Covered % here if ind	Color (S5 - Sandy F	ydrology is icator or configuration of c	onfirm the tion: PL=Pe	ed based on hydee absence of in ore Lining, M=Matrees Type	Location	Texture Indicators f A9 - 1 cm M	or Problemati	Remarks c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Description, D=Deportration, D=Deportration) ric Soil Field A1- Histosol A2 - Histic Ep	hydrology indicators are ibe to the depth needed letion, RM=Reduced Matrix, Matrix Color (Moist) I Indicators (check bipedon	d to docum CS=Covered % here if ind	Color (S5 - Sandy F S6 - Stripped	icator or congrains; Local (Moist) not presented Matrix	onfirm the Mottle %	ed based on hydee absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast	or Problemation uck (LRR I, J) Prairie Redox	Remarks c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) NRCS Hydr	No primary iption (Description, D=Dep	hydrology indicators are libe to the depth needer letion, RM=Reduced Matrix, Matrix Color (Moist) I Indicators (check dependent)	d to docum CS=Covered % here if ind	Color (S5 - Sandy F S6 - Stripped F1 - Loamy F	icator or configuration of present and present Matrix Mucky Miner	onfirm the Mottle %	ed based on hydee absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problemations (LRR I, J) Prairie Redox	Remarks c Soils ¹ (LRR F, G, H)
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Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) NRCS Hydr	iption (Description, D=Deportation, D=Deportation, D=Deportation) A1- Histosol A2 - Histic Epox A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicators and ibe to the depth needed letion, RM=Reduced Matrix, Matrix Color (Moist) I Indicators (check beingedon sticen Sulfide d Layers (LRR F) auck (LRR FGH)	d to docum CS=Covered % here if ind	Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox F	icator or configuration of present and present and matrix Mucky Miner Gleyed Matrix Dark Surface	onfirm the tition: PL=Per Mottle % Int):	ed based on hydee absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	or Problemation uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ed Vertic earent Material	Remarks c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: w-155n45w33-a1
VEGETATIO	· ·	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					(· · · · · · · · · · · · · · · · · · ·
					Total Number of Descinant Couries Assess All Charter (D)
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 10 X 1 = 10
10.	Total Cover =	0			
	Total Cover =				FACW spp. 70 $\times 2 = 140$
/					FAC spp. $0 x 3 = 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 20 x 4 = 80
1.					UPL spp. $0 x 5 = 0$
2.					
3.					Total 100 (A) 230 (B)
4.					
5.					Prevalence Index = B/A = 2.300
6.					2.500
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
			_		Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Spartina pectinata	40	Υ	FACW	Problem riydrophytic vegetation (Explain)
			•		* Indicators of hydric soil and watland hydrology must be
2.	Phalaris arundinacea	25	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Carex pellita	10	N	OBL	present, unless disturbed or problematic.
4.	Andropogon gerardii	10	N	FACU	Definitions of Vegetation Strata:
5.	Poa pratensis	10	N	FACU	
6	Agrostis gigantea	5	N	FACW	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.
					Sapinig/Sinub - Weedy Plante 1888 than 8 mil 25 n, Tegaraless of Height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover -	100			Troody vinds
	Total Cover =	100	_		
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.					
	Total Cover =	0			
Davis					
Remarks:	ine wetiand vegetation is dominated by prai	rie cord gra	ass and re	ed canary	grass with a mixture of other plants commonly found within roadside ditches.
Additional I	Remarks:				
Additional	TOMAINS.				