WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/22/14	
Applicant:		Enbridge									County:	Marshall	
Investigators		NTT/BEH/BJC				_Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	165A							I Classification:			<u> </u>	455 40 014	
Landform:	Depression		1 1 40	0.070		cal Relief:		404	D . (Sample Point:	w-155n46w2-h1	
Slope (%):	26 - 60%	nditions on the city	Latitude: 48			Longitude:			Datum:	П Na			
	· · · · · ·	nditions on the site				ar? (If no, exp				□ No	Section:		
Are Vegetation	•	□, or Hydrology	•	•			Are	e normal circum	-	esent?	Township:	D :	
Are Vegetation		, ,	□aturally	probl	emalic?			Yes	□ No		Range:	Dir:	
SUMMARY C			V						Lludria Cail	la Dragant?	Voo		
Hydrophytic '			<u>Ye</u> Ye			_			Hydric Soil		nt Within A W	etland? Yes	
Remarks:	drology Prese				cottonwood	troop thro	vuahout t					ity of the ground layer.	
Nemaiks.	THE Welland	i is a siliali deep d	aepression	WILLI	JULIUTIWUUL	1 11665 11110	Jugillout	ine euge. Dare	son and larg	ge rocks co	wei the major	ity of the ground layer.	
HADBOLOG	V												
HYDROLOG					_								
_		icators (Check all	I that apply	; Mini	mum of or	e primary	or two s	econdary requir	ed):				
Primary	_	Mata:				D44 C=14	O			Secondary		ail Canala	
	A1 - Surface \A2 - High Wa					B11 - Salt (B13 - Aqua					B6 - Surface S	oil Cracks /egetated Concave Surface	
	A3 - Saturatio					C1 - Hydro					B10 - Drainage	_	
	B1 - Water Ma					C2 - Dry Se					ū	Rhizospheres on Living Roots	(tilled)
	B2 - Sedimen	•						spheres on Living	Roots (not tille	• 🗆	C8 - Crayfish E		
	B3 - Drift Dep					C4 - Prese						Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep					C7 - Thin N Other (Exp		ace			D2 - Geomorph D5 - FAC-Neut		
	•	ก Visible on Aerial Im	nagery			Other (Exp	iaiii)					ived Hummocks (LRR F)	
	B9 - Water-St									_	2	(,	
Field Obser	vations:												
Surface Wat	er Present?	Yes □	De	epth:		(in.)			VA /-41		D	V	
Water Table		Yes □		· _ epth:		- (in.)			Wetland H	lydrology	Present?	Υ	
Saturation P	resent?	Yes □	De	epth:		- (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec	orded Data (s				I nhotos pr	<u> </u>	actions)	if available:					
	<u>`</u>	stream gauge, moni	itoring well,	aerial	<u> </u>	evious insp			landacana r	position on	dyogotation		
Describe Rec Remarks:	<u>`</u>		itoring well,	aerial	<u> </u>	evious insp			landscape p	position and	d vegetation.		
Remarks:	<u>`</u>	stream gauge, moni	itoring well,	aerial	<u> </u>	evious insp			landscape p	position and	d vegetation.		
Remarks:	No primary	stream gauge, moni wetland hydrology	itoring well, / indicators	aerial were	observed	evious insp Hydrology	y is assu	med based on		position and	d vegetation.		
Remarks: SOILS Profile Descri	No primary	stream gauge, moni	itoring well, / indicators eeded to do	aerial were	observed.	evious insp Hydrology cator or co	y is assu	med based on e absence of in	dicators.)	position and	d vegetation.		
Remarks: SOILS Profile Descri	No primary	stream gauge, moning wetland hydrology be to the depth ne	itoring well, / indicators eeded to do	aerial were	observed.	evious insp Hydrology cator or co	y is assu	med based on e absence of in	dicators.)	position and	d vegetation.		
Remarks: SOILS Profile Descri	No primary	stream gauge, moning wetland hydrology be to the depth ne	itoring well, / indicators eeded to do	aerial were	observed.	evious insp Hydrology cator or co	y is assu	med based on e absence of in ore Lining, M=Matri	dicators.)	position and	d vegetation.		
Remarks: SOILS Profile Descri	No primary	stream gauge, moning wetland hydrology be to the depth ne etion, RM=Reduced Market	itoring well, / indicators eeded to do latrix, CS=Cov	aerial were	observed.	evious insp Hydrology cator or co	y is assu onfirm the	med based on e absence of in ore Lining, M=Matri	dicators.)	Dosition and	d vegetation.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, / indicators eeded to do latrix, CS=Cov	aerial were	e observed ent the indi	evious insp Hydrology cator or co	onfirm the	med based on e absence of in ore Lining, M=Matri	dicators.)		d vegetation. Sandy mucky min		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, / indicators eeded to do latrix, CS=Cov	aerial aerial cume vered/C	e observed ent the indi	evious insp Hydrology cator or co	onfirm the	med based on e absence of in ore Lining, M=Matri	dicators.)	Texture			
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, / indicators eeded to do latrix, CS=Cov	aerial aerial cume vered/C	e observed ent the indi	evious insp Hydrology cator or co	onfirm the	med based on e absence of in ore Lining, M=Matri	dicators.)	Texture			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	itoring well, / indicators eeded to do latrix, CS=Cov	aerial aerial cume vered/C	ent the indicoated Sand	evious insp Hydrology cator or co Grains; Locat Moist)	onfirm the	med based on e absence of in ore Lining, M=Matri es Type	dicators.)	Texture			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	itoring well, / indicators eeded to do latrix, CS=Cov	aerial aerial cume vered/C	ent the indicoated Sand	evious insp Hydrology cator or co Grains; Locat Moist)	onfirm the	med based on e absence of in ore Lining, M=Matri	dicators.)	Texture MMI	Sandy mucky min	eral	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 NRCS Hydr	No primary iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	itoring well, / indicators eeded to do latrix, CS=Cov	aerial aerial cume vered/0	ent the indicoated Sand Color (evious insp Hydrology cator or co Grains; Locat Moist) not present	onfirm the	med based on e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture MMI	Sandy mucky min	eral	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary iption (Descrintration, D=Depleted Price Soil Field A1- Histosol	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (ch	itoring well, / indicators eeded to do latrix, CS=Cov	aerial aerial cume vered/0	ent the indicoated Sand Color (Cators are r	evious inspections inspections in the content of th	onfirm the	med based on e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture MMI Indicators A9 - 1 cm N	Sandy mucky min	eral : Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 NRCS Hydr	No primary iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 Indicators (characters)	itoring well, / indicators eeded to do latrix, CS=Cov	aerial s were cume vered/C	ent the indicoated Sand Color (evious inspections inspections in the content of th	mottle white was a second or second	med based on e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Indicators A9 - 1 cm N A16 - Coast	Sandy mucky min	eral : Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	wetland hydrology be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (characters)	itoring well, / indicators eeded to do latrix, CS=Cov	aerial s were coume vered/0	cators are response observed. Color (evious inspections of the content of	mottle with the second	med based on e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S	Sandy mucky min for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G)	eral : Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 NRCS Hydr	No primary iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (characters) ipedon etic in Sulfide Layers (LRR F)	itoring well, / indicators eeded to do latrix, CS=Cov	aerial aerial aerial aerial	cators are respectively.	evious inspections of the content of	monfirm the tion: PL=Pi Mottle % t):	med based on e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduce	Sandy mucky min for Problematic Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	eral Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 NRCS Hydr	iption (Descrintration, D=Deplementation, D=Depl	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	itoring well, / indicators eeded to do latrix, CS=Cov	aerial aerial were f indic	cators are respectively. Solve observed. Color (Color	cator or co Grains; Locat Moist) not present ledox Mucky Minera Gleyed Matrix Mucky Minera d Matrix Dark Surface	monfirm the months with the mo	med based on e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduc	Sandy mucky min for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material	eral Soils¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 NRCS Hydr	iption (Descrintration, D=Deplementation, D=Depl	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	itoring well, / indicators eeded to do latrix, CS=Cov	aerial aerial aerial aerial	Color (Color (Coated Sand Coated Sand Color (Color	evious inspections of the control of	monfirm the months with the mo	med based on e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Red I TF2 - Red I TF12 - Very	Sandy mucky min For Problematic Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	eral Soils¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 NRCS Hydr	No primary iption (Descrintration, D=Depleted A1- Histosol A2 - Histic Ep A3 - Black History A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) locky Peat or Peat (LR)	itoring well, / indicators eeded to do latrix, CS=Cov neck here if	aerial aerial aerial aerial	Color (Coated Sand Coated Sand Coated Sand Color (Co	evious inspections in the content of	monfirm the tion: PL=P	e absence of in ore Lining, M=Matri	dicators.) x) Location	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	Sandy mucky min for Problematic Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	eral Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	oresent,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w2-h1
VEGETATION	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Populus deltoides	70	Y	FAC	
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					<u> </u>
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.					Total % Cover or: Multiply by: OBL spp. 10 X 1 = 10 FACW spp. 0 X 2 = 0 FAC spp. 70 X 3 = 210 FACU spp. 0 X 4 = 0 UPL spp. 0 X 5 = 0
	Total Cover =	70			FACW spp. $0 x 2 = 0$
					FAC spp. 70 $x 3 = 210$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$
1.					UPL spp. $0 X 5 = 0$
2.					
3.					Total 80 (A) 220 (B)
4.					
5.					Prevalence Index = B/A = 2.750
6.					
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 *
<u></u>					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Sium suave	10	Υ	OBL	1
2.					* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					1
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					<u> </u>
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless 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 =	10			-
	Total Cover =	10	_	I	
14/ = = ali : 1/ima Ot	/5! ! 00 % !!\				
	ratum (Plot size: 30 ft. radius)				-
1.					
2.					- It is the start of the Break and O
3.					Hydrophytic Vegetation Present?Y
5.					
4.	Tatal Cavar				
D	Total Cover =		يروا اد دروا	م د: ا ا	1. 20. 1
Remarks:	•	•	•		covered with large rocks and bare soil. The edge of the depression has cottonwood
	trees which makes up most of the vegetation	1 throughou	ut the weti	and exclud	ding a small patch of water parsnip.
		_	_	_	
Additional R	kemarks:				
1					
1					
1					· ·