WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	<u>09/23/14</u>
Applicant: Investigators	<u>.</u> .	Enbridge NTT/BEH	———————————————————————————————————————	Subregion (MLRA or LRR): MLRA 56						County: State:	Marshall MN
Soil Unit:	153A		I			NW	I Classification:				
Landform:	Depression	n			Local Relief:					Sample Point	w-155n45w34-a2
Slope (%):	8 - 15% bydrologic c	onditions on the sit	Latitude: 48					Datum:	□ No	Section:	
Are Vegetati		il		ntly disturbed	-		arks) e normal circum			Township:	
Are Vegetati		il □, or Hydrology	0			,	e normai circuir ☑ Yes		36m :	Range:	Dir:
SUMMARY C											
Hydrophytic	-		Yes					Hydric Soil			
Wetland Hyd Remarks:			Ye: Vecated wit		t readaida dit	tob Tho y	votland is domi			t Within A W	
Remarks.		hroughout.	/ located wit	Inn a mower	10adside un	(Cfi. The v	Vetland is domin	hated by pre	lifie cora gi	ass and woo	lly sedge with sandbar willow
HYDROLOG											
		dicators (Check al	I that apply:	Minimum of	one primary	or two s	econdarv requir	red):			
Primary	<u>/:</u>	·		IVIII III III III III III III III III I				00,1	Secondary:		
	A1 - Surface A2 - High W				 B11 - Salt B13 - Aqua 					B6 - Surface S	Soil Cracks Vegetated Concave Surface
	A2 - Figh W A3 - Saturati				□ C1 - Hydro					B10 - Drainag	
	B1 - Water M				□ C2 - Dry S	eason Wa	ater Table			C3 - Oxidized	Rhizospheres on Living Roots (tilled)
	B2 - Sedime B3 - Drift De	•					spheres on Living educed Iron	Roots (not tille		C8 - Crayfish C9 - Saturatio	Burrows n Visible on Aerial Imagery
	B4 - Algal M	at or Crust			C7 - Thin M	Muck Surfa			\checkmark	D2 - Geomorp	hic Position
	B5 - Iron De	•			Other (Exp	olain)				D5 - FAC-Neu	
		ion Visible on Aerial In Stained Leaves	nagery							D/ - FIUSI-ITE	aved Hummocks (LRR F)
Field Obser											
Surface Wat				epth:	(in.)			Wetland H	vdrology l	Present?	Υ
Water Table		Yes □ Yes □		epth:	(in.) (in.)				,		
Saturation Present? Yes Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Roo	and Data	-tracim dallas mon	Haring woll	- arial photos		- antiana)	if evollables				
			-		· ·			trophytic ye	retation an	dlandscane	position
Describe Rec Remarks:		(stream gauge, mon / hydrology indicate	-		· ·			Irophytic ve	getation an	d landscape	position.
Remarks: SOILS	No primary	y hydrology indicato	ors are pres	ent. Wetland	I hydrology is	s assume	ed based on hyc		getation an	d landscape	position.
Remarks: SOILS Profile Descri	No primary	ribe to the depth ne	ors are prese	ent. Wetland	hydrology is	onfirm th	ed based on hyd e absence of in	dicators.)	getation an	d landscape	position.
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Remarks: SOILS Profile Descri	No primary	ribe to the depth ne	ors are prese	ent. Wetland	hydrology is	onfirm th	ed based on hyd e absence of in ore Lining, M=Matri	dicators.)	getation an	d landscape	position.
Remarks: SOILS Profile Descri	No primary	ribe to the depth ne	eeded to doo	cument the i	hydrology is	onfirm th	ed based on hyd e absence of in ore Lining, M=Matri	dicators.)	getation an Texture	d landscape	position. Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	ribe to the depth ne pletion, RM=Reduced M	eeded to doo	cument the i	hydrology is ndicator or co nd Grains; Loca	onfirm th ation: PL=P	ed based on hyd e absence of in ore Lining, M=Matri	dicators.)		d landscape	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	ribe to the depth ne pletion, RM=Reduced M Matrix Color (Moist)	eeded to doo	sent. Wetland	hydrology is ndicator or co nd Grains; Loca	onfirm thation: PL=P	ed based on hyd e absence of in ore Lining, M=Matri	dicators.)		d landscape	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary	ribe to the depth ne pletion, RM=Reduced M Matrix Color (Moist) d Indicators (ch pipedon listic en Sulfide	eeded to doo	cument the i rered/Coated Sa % Colo % Colo	ndicator or co nd Grains; Loca or (Moist) or (Moist) re not presen ly Redox bed Matrix by Mucky Miner by Gleyed Matri	onfirm th ation: PL=P Mottle %	ed based on hyde e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary	ribe to the depth ne pletion, RM=Reduced M Matrix Color (Moist) d Indicators (ch pipedon listic en Sulfide	eeded to doo Matrix, CS=Cove	cument the i vered/Coated Sa % Colo %	ndicator or co nd Grains; Loca or (Moist) or (Moist) re not presen ly Redox bed Matrix by Mucky Miner by Gleyed Matri	onfirm th ation: PL=P Mottle %	ed based on hyde e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture Indicators f A9 - 1 cm M A16 - Coast S7 - Dark So F16 - High F F18 - Reduc TF2 - Red P	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	Remarks
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-155n45w34-a2
		re non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	Species Marine	<u>% Cover</u>	Dominant	<u>1110.5tatus</u>	
2.	<u> </u>				Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(AB)
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 30 $X 1 = 30$
	Total Cover =	- 0			FACW spp. 90 $x^2 = 180$
					FAC spp. 0 $x 3 = 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
<u>1.</u>	Salix interior	20	Y	FACW	$UPL \text{ spp.} 0 \qquad x \ 5 = 0$
2.			-		
3.					Total 120 (A) 210 (B)
4.					
5.					Prevalence Index = B/A = 1.750
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	20			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Spartina pectinata	60	Y	FACW	
2.	Carex pellita	20	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Phalaris arundinacea	10	N	FACW	present, unless disturbed or problematic.
4.	Schoenoplectus tabernaemontani	10	N	OBL	Definitions of Vegetation Strata:
5.					
6					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.
10.					
11.					
12.	·				Herb - All herbaceous (non-woody) plants, regardless of size.
13.	·				
14.	, 				
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100			
		100	_		
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	= 0			
Remarks:			ass and w	oollv seda	e with a mixture of other plants commonly found within roadside ditches in the
	region.	uoru gr		cony body	
Additional	Pomorko				
Additional I					