WETLAND DETERMINATION DATA FORM Great Plains Region

Draiget/Citer										Deter	00/00/11/1	
Project/Site: L3R										Date:	08/02/14	
Applicant: Enbridge									County:	Marshall		
Investigators: KRG/NTT				Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	<u>115A</u>						I Classification:					
Landform:	Side slope				cal Relief:					Sample Point	u-155n46w12-e1	
Slope (%):	3 - 7%		Latitude: 48.262		Longitude:			Datum:				
Are climatic/h	hydrologic cc	onditions on the site	e typical for this	s time of yea	r? (If no, exp			☑ Yes	□ No	Section:		
Are Vegetation , Soil , or Hydrology signification			□significantly (cantly disturbed? Are normal circu				stances pre	esent?	Township:		
Are Vegetation	on 🛛 Soil	□, or Hydrology	Daturally prob	lematic?			☑ Yes	□ No		Range:	Dir:	
SUMMARY C	OF FINDING	S										
Hydrophytic V	Vegetation P	resent?	No					Hydric Soil	s Present?	No		
Wetland Hyd	•		No							t Within A W	etland? No	
Remarks:				of uncultivat	ed land be	etween t					f grasses and forbs.	
r tomanto.				or another at			no agricaliar i	iolae. Vege			gracese and rende.	
HYDROLOG	V											
								_				
•	•••	icators (Check all	that apply; Mir	imum of one	e primary o	or two se	econdary requir	ed):				
Primary:									Secondary:			
□ A1 - Surface Water					B11 - Salt (□ B6 - Surface Soil Cracks		
 A2 - High Water Table A3 - Saturation 					B13 - Aqua					 B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns 		
	B1 - Water M				C1 - Hydrog C2 - Dry Se						Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen						spheres on Living	Roots (not tille		C8 - Crayfish I		
	B3 - Drift Dep	•			C4 - Preser						n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin M	luck Surfa	ace			D2 - Geomorp	0,	
	B5 - Iron Dep	osits			Other (Expl	lain)				D5 - FAC-Neu		
		on Visible on Aerial Im	agery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves										
Field Observ	vations:											
Surface Wate	er Present?	Yes 🛛	Depth:		(in.)			Wotland H	vdrology [Drocont?	N	
Water Table	Present?	Yes 🛛	Depth:		(in.)			Wetland H	iyarology r	resent	Ν	
Saturation Present? Yes Depth: (in.)												
Describe Rea	orded Data (troom gougo moni				octiona)	if available:					
	````	stream gauge, moni	<b>.</b>		evious insp	ections),	li avaliable.					
Remarks:	No indicato	rs of wetland hydro	ology were obso	erved.								
SOILS					rator or co	onfirm th	e absence of in	dicators.)				
Profile Descri		ibe to the depth ne										
Profile Descri		ibe to the depth ne etion, RM=Reduced Ma										
Profile Descri		etion, RM=Reduced M				ion: PL=P	ore Lining, M=Matri		[			
Profile Descri (Type: C=Concer		etion, RM=Reduced Matrix	atrix, CS=Covered/	Coated Sand G	Frains; Locat	ion: PL=P Mottle	ore Lining, M=Matri es	x)				
Profile Descri		etion, RM=Reduced M Matrix Color (Moist)			Frains; Locat	ion: PL=P	ore Lining, M=Matri		Texture		Remarks	
Profile Descri (Type: C=Concer		etion, RM=Reduced M Matrix Color (Moist)	atrix, CS=Covered/	Coated Sand G	Frains; Locat	ion: PL=P Mottle	ore Lining, M=Matri es	x)	Texture FS		Remarks	
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	etion, RM=Reduced M Matrix Color (Moist)	atrix, CS=Covered/	Coated Sand G	Frains; Locat	ion: PL=P Mottle	ore Lining, M=Matri es	x)			Remarks	
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	etion, RM=Reduced M Matrix Color (Moist)	atrix, CS=Covered/	Coated Sand G	Frains; Locat	ion: PL=P Mottle	ore Lining, M=Matri es	x)			Remarks	
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	etion, RM=Reduced M Matrix Color (Moist)	atrix, CS=Covered/	Coated Sand G	Frains; Locat	ion: PL=P Mottle	ore Lining, M=Matri es	x)			Remarks	
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	etion, RM=Reduced M Matrix Color (Moist)	atrix, CS=Covered/	Coated Sand G	Frains; Locat	ion: PL=P Mottle	ore Lining, M=Matri es	x)			Remarks	

NPCS Hydric Soil Field Indicators (check here if indicators are not present).

иксэ пуш	Contractions (Check here i	i indicators are not present).	
	A1- Histosol A2 - Histic Epipedon A3 - Black Histic A4 - Hydrogen Sulfide A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH) A11 - Depleted Below Dark Surface A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix	<ul> <li>S5 - Sandy Redox</li> <li>S6 - Stripped Matrix</li> <li>F1 - Loamy Mucky Mineral</li> <li>F2 - Loamy Gleyed Matrix</li> <li>F3 - Depleted Matrix</li> <li>F6 - Redox Dark Surface</li> <li>F7 - Depleted Dark Surface</li> <li>F8 - Redox Depressions</li> <li>F16 - High Plains Depressions (ML</li> </ul>	Indicators for Problematic Soils1□A9 - 1 cm Muck (LRR I, J)□A16 - Coast Prairie Redox (LRR F, G, H)□S7 - Dark Surface (LRR G)□F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)□F18 - Reduced Vertic□TF2 - Red Parent Material□TF12 - Very Shallow Dark Surface□Other (Explain in Remarks)
Restrictive Layer Remarks:	Type: Soil is a dark-colored fine sand through	Depth: out the profile. No hydric soil indica	Hydric Soil Present?Ntors were observed.

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Project/Site	: L3R				Sample Point: u-155n46w12-e1
		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species Marrie</u>	76 COVEL	Dominant	<u>1110.5tatus</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>50.0%</b> (A/B)
7.					
8.	J				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp.       0       x       1 =       0         FACW spp.       0       x       2 =       0         FAC spp.       25       x       3 =       75         FACU spp.       25       x       4 =       100
	 Total Cover =	0			FACW spp. 0 x 2 = 0
	-				FAC spp. $25$ x 3 = $75$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $25$ x 4 = 100
1.					UPL spp. 75 X 5 = $375$
2.					
3.					Total <u>125</u> (A) <u>550</u> (B)
4.					
5.					Prevalence Index = B/A = <b>4.400</b>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is $\leq 3.0$ *
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	40	Y	UPL	
2.	Solidago gigantea	25	Y	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Poa pratensis	20	N	FACU	present, unless disturbed or problematic.
4.	Asclepias syriaca	10	N	NI	Definitions of Vegetation Strata:
5.	Silene latifolia	10	N	NI	
6	Artemisia ludoviciana	10	N	NI	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Melilotus officinalis	5	<u>N</u>	FACU	height (DBH), regardless of height.
8.	Melilotus alba	5	N	NI	
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					4
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					4
14.					Moody Vince All woody vince recordess of height
15.	Tatal Osuar	405			Woody Vines - All woody vines, regardless of height.
	Total Cover =	125	_		
	tratum (Plot size: 30 ft. radius)				-
1. 2.					
<u> </u>					Hydrophytic Vocatation Brocont?
5.					Hydrophytic Vegetation Present? N
4.					
7.	Total Cover =	0			
Remarks:	Vegetation is dominated by smooth brome, la		rod and K	entucky b	bluegrass
Kontarko.		Solucit	iou, anu N	Sindony D	
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Additional I					