WETLAND DETERMINATION DATA FORM Great Plains Region

										Deter	00/00/44
Project/Site:		L3R								Date:	09/23/14
Applicant:		Enbridge			.					County:	Pennington
Investigators		BJC/RAJ			Subregion	•	,	MLRA 56		State:	MN
Soil Unit:	162A						Classification:				
Landform:	Side slope				al Relief: (Sample Point	u-154n44w33-u1
Slope (%):	3 - 7%		Latitude: 48.122		Longitude: -			Datum:			
Are climatic/h	nydrologic co	nditions on the sit	e typical for this	time of year	? (If no, expla	ain in remar	ks)	☑ Yes	□ No	Section:	
Are Vegetation	on 🛛 Soil	□, or Hydrology	□significantly of	disturbed?		Are	normal circum	stances pre	esent?	Township:	
Are Vegetation	on 🛛 Soil	□, or Hydrology	Daturally prob	lematic?			Ves	□ No		Range:	Dir:
SUMMARY C	OF FINDING	S									
Hydrophytic V	Vegetation P	resent?	No					Hvdric Soil	s Present?	No	
Wetland Hyd	•		No							t Within A W	etland? No
Remarks:		sample point is lo		sland betwee	n a sedoe	meadow					
rtemanto.					in a souge	, 1110000	v and a mesic	lorest near	County ring	inway i.	
HYDROLOG	Ϋ́										
Wetland Hy	drology Ind	icators (Check all	that apply; Min	imum of one	primary o	or two see	condary require	ed):			
Primary:									Secondary:		
	A1 - Surface				311 - Salt C					B6 - Surface S	
	A2 - High Wa				313 - Aquati						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydrog					B10 - Drainage	
	B1 - Water M B2 - Sedimen				C2 - Dry Sea		heres on Living F	Poots (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep	•			C4 - Presen					•	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin Mu					D2 - Geomorp	• •
	B5 - Iron Dep				Other (Expla					D5 - FAC-Neu	
		on Visible on Aerial Im	agery								aved Hummocks (LRR F)
	B9 - Water-St	tained Leaves									
Field Observ	vations:										
		Yes D	Depth:		(in)						
Surface Wate	er Present?		Depth:		(in.) (in.)			Wetland H	ydrology F	Present?	Ν
Surface Wate Water Table	er Present? Present?	Yes 🗆	Depth:		(in.)			Wetland H	ydrology I	Present?	<u>N</u>
Surface Wate	er Present? Present?		-					Wetland H	ydrology I	Present?	<u>N</u>
Surface Wate Water Table Saturation Pr	er Present? Present? esent?	Yes 🗆	Depth: Depth:		(in.) (in.)	ections), in		Wetland H	ydrology I	Present?	<u>N</u>
Surface Wate Water Table Saturation Pr	er Present? Present? resent? orded Data (s	Yes □ Yes □ stream gauge, mon	Depth: Depth: itoring well, aeria	al photos, prev	(in.) (in.)	ections), i		Wetland H	ydrology I	Present?	<u>N</u>
Surface Wate Water Table Saturation Pr Describe Reco	er Present? Present? resent? orded Data (s	Yes D Yes D	Depth: Depth: itoring well, aeria	al photos, prev	(in.) (in.)	ections), in		Wetland H	ydrology I	Present?	<u>N</u>
Surface Wate Water Table Saturation Pr Describe Reco Remarks:	er Present? Present? resent? orded Data (s	Yes □ Yes □ stream gauge, mon	Depth: Depth: itoring well, aeria	al photos, prev	(in.) (in.)	ections), it		Wetland H	ydrology I	Present?	<u>N</u>
Surface Wate Water Table Saturation Pr Describe Reco Remarks:	er Present? Present? esent? orded Data (s No indicato	Yes Yes stream gauge, mon	Depth: Depth: itoring well, aeria	al photos, prev erved.	(in.) (in.) vious inspe		f available:		ydrology I	Present?	<u>N</u>
Surface Water Water Table Saturation Pr Describe Reco Remarks: SOILS Profile Descri	er Present? Present? esent? orded Data (s No indicato	Yes □ Yes □ stream gauge, mon	Depth: Depth: itoring well, aeria blogy were obse	al photos, preverved.	(in.) (in.) vious inspe ator or cor	nfirm the	f available: absence of ind	dicators.)	ydrology I	Present?	<u>N</u>
Surface Water Water Table Saturation Pr Describe Reco Remarks: SOILS Profile Descri	er Present? Present? esent? orded Data (s No indicato	Yes Yes stream gauge, mon rs of wetland hydro	Depth: Depth: itoring well, aeria blogy were obse	al photos, preverved.	(in.) (in.) vious inspe ator or cor	nfirm the	f available: absence of ind	dicators.)	ydrology I	Present?	<u>N</u>
Surface Water Water Table Saturation Pr Describe Reco Remarks: SOILS Profile Descri	er Present? Present? esent? orded Data (s No indicato	Yes Yes stream gauge, mon rs of wetland hydro be to the depth ne etion, RM=Reduced M	Depth: Depth: itoring well, aeria blogy were obse	al photos, preverved.	(in.) (in.) vious inspe ator or cor	nfirm the	f available: absence of inc e Lining, M=Matrix	dicators.)	ydrology F	Present?	<u>N</u>
Surface Water Water Table Saturation Pr Describe Reco Remarks: SOILS Profile Descri (Type: C=Concer	er Present? Present? esent? orded Data (s No indicato	Yes Yes stream gauge, mon rs of wetland hydro be to the depth ne etion, RM=Reduced M Matrix	Depth: Depth: itoring well, aeria blogy were obse eeded to docum atrix, CS=Covered/	al photos, preverved. erved. ent the indica Coated Sand Gi	(in.) (in.) vious inspe ator or cor rains; Locatio	nfirm the on: PL=Por Mottle:	f available: absence of ind re Lining, M=Matrix	dicators.) ^{x)}		Present?	
Surface Water Water Table Saturation Pr Describe Reco Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	er Present? Present? resent? orded Data (s No indicato	Yes Yes Stream gauge, mon rs of wetland hydro be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	Depth: Depth: itoring well, aeria plogy were obse eeded to docum atrix, CS=Covered/	al photos, preverved.	(in.) (in.) vious inspe ator or cor rains; Locatio	nfirm the	f available: absence of inc e Lining, M=Matrix	dicators.)	Texture		Remarks
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NPCS Hydric Soil Field Indicators (check here if indicators are **\+**\

NRCS Hydri	c Soil Field Indicators (check here	if indicators are not present):		
_				Indicators for Problematic Soils ¹
	A1- Histosol	S5 - Sandy Redox		A9 - 1 cm Muck (LRR I, J)
	A2 - Histic Epipedon	S6 - Stripped Matrix		A16 - Coast Prairie Redox (LRR F, G, H)
	A3 - Black Histic	F1 - Loamy Mucky Mineral		S7 - Dark Surface (LRR G)
	A4 - Hydrogen Sulfide	F2 - Loamy Gleyed Matrix		F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)
	A5 - Stratified Layers (LRR F)	F3 - Depleted Matrix		F18 - Reduced Vertic
	A9 - 1 cm Muck (LRR FGH)	□ F6 - Redox Dark Surface		TF2 - Red Parent Material
	A11 - Depleted Below Dark Surface	F7 - Depleted Dark Surface		TF12 - Very Shallow Dark Surface
	A12 - Thick Dark Surface	F8 - Redox Depressions		Other (Explain in Remarks)
	S1 - Sandy Mucky Mineral	F16 - High Plains Depressions (ML	.RA 72, 73 of LRR H)	
	S2 - 2.5 cm Mucky Peat or Peat (LRR G, H)			
	S3 - 5 cm Mucky Peat or Peat (LRR F)			¹ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	S4 - Sandy Gleyed Matrix			unless disturbed or problematic.
Restrictive Layer	Type: Gravel	Depth: ^{8"}	Undria Sail Dragont?	N
Restrictive Layer	Type.		Hydric Soil Present?	<u> </u>
Remarks:	Could not dig past 8 inches due to a real	strictive layer of gravel. Soil is assur	med non-hydric based on I	andscape position and dominance of non-hydrophytic
	vegetation. No hydric soil indicators we			

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Project/Site:	L3R				Sample Point: u-154n44w33-u1
VEGETATION	N (Species identified in all uppercase are Plot size: 30 ft. radius)	e non-native	species.)		
	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>// 00/01</u>	Dominant	maiotatao	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (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: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					$OBL spp. 0 \qquad x \ 1 = 0$
	Total Cover =	0			FACW spp. $0 x 2 = 0$
					FAC spp. 5 $X 3 = 15$
	Stratum (Plot size: 15 ft. radius)	40	V		FACU spp. 105 X 4 = 420
1.	Dactylis glomerata	40	Y Y	FACU	
<u>2.</u> 3.	Lotus comiculatus	40	 N	FACU FACU	-
<u> </u>	Cirsium arvense	<u> </u>	N N	FACU	
5.	Phleum pratense	5	N	FACU	
6.	Melilotus officinalis Solidago gigantea	5	N	FAC	
7.		0		17.0	
8.	J				Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	110			Prevalence Index is ≤ 3.0 *
	-				Morphological Adaptations (Explain) *
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.					
2.					* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					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.					Woody Vines - All woody vines, regardless of height.
15.	Total Cover	0			Woody Villes - All Woody Villes, Tegardiess of height.
	Total Cover =	0	_		
Mandu Vina Str	rotum (Plot cize: 20 ft. rodius)				
	atum (Plot size: 30 ft. radius)				
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	The upland sample point is dominated by or		s and bird	s foot tref	foil.
Additional R	emarks:				