WETLAND DETERMINATION DATA FORM Great Plains Region

D		LOD							I Data:	00/07/44			
Project/Site:		L3R							Date:	09/27/14 Dennington			
Applicant:		Enbridge BEH/NTT			Subragion (MI	DA or I DD).	MLRA 56		County: State:	Pennington MN			
Investigators Soil Unit:	148A	DEH/INT I			Subregion (ML_ م	WI Classification			State.	IVIIN			
Landform:	Side slope				cal Relief: VL	vvi Ciassilication	-		Sample Point	u-154n44w28-b1			
Slope (%):	8 - 15%	L atitu	de: 48.124		Longitude: -96.3	1632625	Datum:	•		<u>u 1041144W20 B1</u>			
. ,		nditions on the site typic					✓ Yes	No	Section:				
Are Vegetation				disturbed?	T	Are normal circur			Township:				
Are Vegetation			urally prob			✓ Yes		000	Range:	Dir:			
SUMMARY C		, ,							· ····································				
Hydrophytic \			No				Hydric Soi	Is Present?	No No				
Wetland Hyd	•		No		-				nt Within A W	etland? No			
Remarks:		ple point in a quaking a	spen fore	est, upslope	from a forested	component of a							
HYDROLOGY													
		icators (Check all that a	annly: Mir	nimum of on	e primary or two	secondary requi	red):						
Primary:	•	icators (Check all that a	appiy, iviii	ilitiaiti oi oii	e primary or two	secondary requi	ieu).	Secondary					
<u>- 1 1111ar y 1</u>	<u>·</u>	Water			B11 - Salt Crust				<u>.</u> B6 - Surface S	Soil Cracks			
	A2 - High Wa	ter Table			B13 - Aquatic Fa	na			B8 - Sparsely	Vegetated Concave Surface			
	A3 - Saturation				C1 - Hydrogen S				B10 - Drainage				
	B1 - Water M B2 - Sedimen				C2 - Dry Season	Water Table zospheres on Living	Poots (not till			Rhizospheres on Living Roots (tilled)			
	B3 - Drift Dep	•			C4 - Presence of		Roots (not till	"	C8 - Crayfish E	n Visible on Aerial Imagery			
	B4 - Algal Ma				C7 - Thin Muck S			_	D2 - Geomorp				
	B5 - Iron Dep	osits			Other (Explain)				D5 - FAC-Neu				
		n Visible on Aerial Imagery							D7 - Frost-Hea	aved Hummocks (LRR F)			
	B9 - Water-St	ained Leaves											
Field Observe													
Field Observ		_											
Surface Water		Yes	Depth:		_ (in.)		Wetland H	Hydrology	Present?	N			
Water Table		Yes	Depth:		_ (in.)			, ,,		<u>—</u>			
Saturation P	resent?	Yes	Depth:		_ (in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec	orded Data (s	stream gauge, monitoring	well, aeria	al photos, pro	evious inspection	s), if available:							
Describe Reco	<u>`</u>	stream gauge, monitoring or secondary hydrologic			<u>.</u>	s), if available:							
	<u>`</u>				<u>.</u>	s), if available:							
Remarks:	No primary	or secondary hydrologic	cal indicat	tors were ob	served.								
Remarks: SOILS Profile Descri	No primary	or secondary hydrologic	cal indicat	tors were ob	served.	the absence of in							
Remarks: SOILS Profile Descri	No primary	or secondary hydrologic	cal indicat	tors were ob	served.	the absence of in							
Remarks: SOILS Profile Descri	No primary	or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, C	cal indicat	tors were ob	cator or confirm	the absence of in =Pore Lining, M=Mat							
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, C	to docum	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)	Toyturo		Domarka			
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist)	to docum S=Covered	tors were ob	cator or confirm Grains; Location: PI	the absence of in =Pore Lining, M=Mat		Texture		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1	to docum S=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)	SCL		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1	to docum S=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)		abundant gravel	Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1	to docum S=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)	SCL	abundant gravel	Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1	to docum S=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)	SCL	abundant gravel	Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1	to docum S=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)	SCL	abundant gravel	Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 4/1	to docum S=Covered 100 100	nent the indi /Coated Sand (cator or confirm Grains; Location: Pl Moist) %	the absence of ir =Pore Lining, M=Mat ottles Type	rix)	SCL	abundant gravel	Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25	No primary iption (Descrintration, D=Depl	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 4/1	to docum S=Covered 100 100	nent the indi /Coated Sand (cator or confirm Grains; Location: PI	the absence of in Pore Lining, M=Mat	rix)	SCL					
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25	No primary iption (Descrintration, D=Depl Hue_10YR Hue_10YR ric Soil Field	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 4/1	to documes=Covered % 100 100 nere if indi	nent the indi Coated Sand (cator or confirm Grains; Location: Pl Moist) Moist)	the absence of ir =Pore Lining, M=Mat ottles Type	Location	SCL SC	for Problematic				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25 NRCS Hydr	No primary iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1 4/1 Indicators (check h	to documes=Covered % 100 100 nere if indicated indicated to documes with the second se	cors were obtained the indicated Sand Color (Color (Color (S5 - Sandy R	cator or confirm Grains; Location: Pl Moist) Moist) not present):	the absence of ir =Pore Lining, M=Mat ottles Type	Location	SCL SC Indicators 1 A9 - 1 cm M	for Problemation	c Soils ¹			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 4/1 Indicators (check has ipedon	to documed second secon	cors were obtained the individual of the individ	cator or confirm Grains; Location: Pl Moist) not present): edox Matrix	the absence of ir =Pore Lining, M=Mat ottles Type	Location	Indicators A9 - 1 cm MA16 - Coast	for Problemation Muck (LRR I, J) t Prairie Redox (c Soils ¹			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25 NRCS Hydr	No primary iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 4/1 Indicators (check hostic	to docum S=Covered 100 100	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or confirm Grains; Location: Pl Moist) Moist) not present): edox Matrix Mucky Mineral	the absence of ir =Pore Lining, M=Mat ottles Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)	c Soils ¹ (LRR F, G, H)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 4/1 Indicators (check heigh of Sulfide)	to documes=Covered/ % 100 100	cors were obtained the individual of the individ	cator or confirm Grains; Location: Pl Moist) Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix	the absence of ir =Pore Lining, M=Mat ottles Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemation Muck (LRR I, J) It Prairie Redox (Courface (LRR G) Plains Depression	c Soils ¹			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth needed etion, RM=Reduced Matrix, Color (Moist) 2/1 4/1 Indicators (check hostic	to documed second secon	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or confirm Grains; Location: Pl Moist) Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix Matrix Matrix Matrix	the absence of ir =Pore Lining, M=Mat ottles Type	Location	Indicators : A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation Muck (LRR I, J) It Prairie Redox (Courface (LRR G) Plains Depression	c Soils ¹ (LRR F, G, H)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 4/1 Indicators (check has been been been been been been been bee	to documes=Covered/ %	cors were obtained the individual of the individ	cator or confirm Grains; Location: Pl Moist) Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix I Matrix ark Surface I Dark Surface	the absence of ir =Pore Lining, M=Mat ottles Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red FTF12 - Very	for Problemation Muck (LRR I, J) It Prairie Redox (Inface (LRR G) Plains Depression Ced Vertic Parent Material To Shallow Dark S	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-25 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 4/1 Indicators (check has been been been been been been been bee	to documed second secon	cors were obtained the individual of the individ	cator or confirm Grains; Location: Pl Moist) Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix I Matrix Park Surface I Dark Surface Pressions	the absence of inepartment in the ab	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red FTF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression Ced Vertic Parent Material	C Soils ¹ (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: u-154n44w28-b1				
VEGETATIO	` ` `	re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	35	Y	FAC					
2.	Populus balsamifera	15	Y	FACW	Number of Dominant Species that are OBL, FACW, or FAC:(A)				
3.	Acer negundo	3	N	FAC	(D)				
4.					Total Number of Dominant Species Across All Strata:5(B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	 Total Cover =				OBL spp. 0 x 1 = 0				
	53			FACW spp. $\frac{25}{}$ $\times 2 = \frac{50}{}$					
0 1: (0)	0. (5) (5)				FAC spp. 58 $\times 3 = 174$				
	Stratum (Plot size: 15 ft. radius)	05	V	LIDI	FACU spp. 35 $\times 4 = 140$				
1.	Corylus americana	65	Y NI	UPL	UPL spp. $80 X 5 = 400$				
2.	Viburnum opulus	10	N	FAC	T-1-1 100 (A) 704 (D)				
3.	Salix bebbiana	5	N	FACW	Total 198 (A) 764 (B)				
4.	Populus tremuloides	5	N	FAC	Dravidana Inday D/A 0.050				
5.	Cornus racemosa	5	N	FAC	Prevalence Index = B/A = 3.859				
6.	Prunus virginiana	5	N	FACU					
7.					Undrankatia Varatatian Indiaatara				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.	Total Cover	05			Dominance Test is > 50%				
	Total Cover =	95	95		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)		\ <u>\</u>	EAO!!	Problem Hydrophytic Vegetation (Explain) *				
1.	Aralia nudicaulis	30	Y	FACU	* la diseate de la francia de la contrata del contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata de la contrata del contrata del contrata de la contrata de la contrata del contrata d				
2.	Carex pensylvanica	15		NI	 * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 				
3.	Equisetum pratense	5	N	FACW					
4.					Definitions of Vegetation Strata:				
5.					-				
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.					Height (DBH), regardless of height.				
8.					On the wife water Weady plants less than 3 in DDH regardless of height				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.					I I All harboscous (non woods) planta, regardless of size				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.					No. 1 No. All was divisioned to an addition of the sine of				
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	50							
_									
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.				_	Uhadhambadia Wasatatian Buasanto N				
3.					Hydrophytic Vegetation Present?N				
5.									
4.	Tatal Carre	^							
Danasalasa	Total Cover =				and the second Association to the second				
Remarks:		baisam po	ppiar with a	i dense sr	rub layer of American hazelnut. Ground layer is dominated by wild sarsaparilla and				
	Pennsylvania sedge.								
Additional Remarks:									