WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/11/14
Applicant:		Enbridge								County:	Pennington
Investigators	•			_Subregion (MLRA or LRR): <u>MLRA 56</u>					State:	MN	
Soil Unit:	I24A			<u> </u>		NWI Class	sification:				
Landform:	Depression				ocal Relief:					Sample Point:	w-154n45w25-c1
Slope (%):	0 - 2%		Latitude: 48.1			-96.370941		Datum:			
		nditions on the site							□ No	Section:	
Are Vegetation	•	□, or Hydrology	•	•				stances pre	esent?	Township:	
Are Vegetation		, ,	□aturally pr	oblematic?		l	☑ Yes	□ No		Range:	Dir:
	OF FINDINGS		V					l levelei e O eil	- D10	Vaa	
	Vegetation P		Yes		<u> </u>			Hydric Soil			attain do Vas
	drology Prese		Yes	41 41	side of NANII	lua d		is This San	npling Poin	t Within A W	etland? Yes
Remarks:	A wet mead	ow community in a	a road ditch (on the north s	side of Min F	1Wy 1.					
LIVEROLOG	V										
HYDROLOG											
		i cators (Check all t	that apply; N	1inimum of o	ne primary c	or two second	ary require	ed):			
<u>Primary</u>		A		_	544 6 8 6				Secondary:	D0 0 1 0	
☑	A1 - Surface \ A2 - High Wat				B11 - Salt C B13 - Aquat					B6 - Surface S	oil Cracks Vegetated Concave Surface
☑ ☑	A3 - Saturatio				•	ic Fauna jen Sulfide Odor	•			B10 - Sparsely	
	B1 - Water Ma					ason Water Tab					Rhizospheres on Living Roots (tilled)
	B2 - Sedimen					ed Rhizospheres		Roots (not tille		C8 - Crayfish E	
	B3 - Drift Dep					ice of Reduced	Iron				n Visible on Aerial Imagery
	B4 - Algal Mat					uck Surface			$\overline{\mathbf{v}}$	D2 - Geomorp	
	B5 - Iron Depo		agary.		Other (Expla	ain)			☑	D5 - FAC-Neut	
	B9 - Water-St	n Visible on Aerial Ima	agery						П	D7 - FIOSI-Hea	aved Hummocks (LRR F)
J	Do Water Ot	amod Edavod									
Field Observations:											
Surface Wat	_	Yes ☑	Dept	h· 1	(in.)						
Water Table		Yes ☑	Dept		_ (in.)			Wetland H	ydrology F	Present?	Υ
Saturation P		Yes ☑	Dept		– (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Deceribe Dec	orded Data (a	troom gougo monit	<u> </u>			actional if avai	ilablar				
	· · · · · · · · · · · · · · · · · · ·		toring well, a	erial photos, p	revious inspe				es a start than	wetter de le d	in the second continued by almost a second
Describe Rec Remarks:	At the samp		toring well, a	erial photos, p	revious inspe			ce through r	most of the	wetland. Ind	icators of wetland hydrology are
Remarks:	· · · · · · · · · · · · · · · · · · ·		toring well, a	erial photos, p	revious inspe			ce through r	most of the	wetland. Ind	icators of wetland hydrology are
Remarks:	At the samp present.	le point there is an	toring well, ac n inch of star	erial photos, poding water.	revious inspe The soils are	e saturated to	the surfac	_	most of the	wetland. Ind	icators of wetland hydrology are
Remarks: SOILS Profile Descri	At the samp present.		toring well, as inch of star	erial photos, pading water.	revious insperience from the soils are	e saturated to	the surface	dicators.)	nost of the	wetland. Ind	icators of wetland hydrology are
Remarks: SOILS Profile Descri	At the samp present.	be to the depth nee	toring well, as inch of star	erial photos, pading water.	revious insperience from the soils are	e saturated to	the surface	dicators.)	nost of the	wetland. Ind	icators of wetland hydrology are
Remarks: SOILS Profile Descri	At the samp present.	be to the depth nee	toring well, as inch of star	erial photos, pading water.	revious insperience from the soils are	e saturated to	the surface	dicators.)	nost of the	wetland. Ind	icators of wetland hydrology are
Remarks: SOILS Profile Descri	At the samp present.	be to the depth needling, RM=Reduced Ma	toring well, as inch of star	erial photos, pading water. I	revious insperience from the soils are	e saturated to	the surface	dicators.)	nost of the Texture	wetland. Ind	icators of wetland hydrology are Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	At the samp present.	be to the depth need to the Matrix	toring well, ac n inch of star eded to docu atrix, CS=Cover	erial photos, pading water. I	revious insperience of the soils are dicator or color Grains; Location	e saturated to	the surface ence of income, M=Matrix	dicators.) ×)		wetland. Ind	
Remarks: SOILS Profile Descri (Type: C=Concer	At the samp present.	be to the depth need to the Matrix	toring well, ac n inch of star eded to docu atrix, CS=Cover	erial photos, pading water. I	revious insperience of the soils are dicator or color Grains; Location	e saturated to	the surface ence of income, M=Matrix	dicators.) ×)		wetland. Ind	
Remarks: SOILS Profile Descri (Type: C=Concer	At the samp present.	be to the depth need to the Matrix	toring well, ac n inch of star eded to docu atrix, CS=Cover	erial photos, pading water. I	revious insperience of the soils are dicator or color Grains; Location	e saturated to	the surface ence of income, M=Matrix	dicators.) ×)		wetland. Ind	
Remarks: SOILS Profile Descri (Type: C=Concer	At the samp present.	be to the depth need to the Matrix	toring well, ac n inch of star eded to docu atrix, CS=Cover	erial photos, pading water. I	revious insperience of the soils are dicator or color Grains; Location	e saturated to	the surface ence of income, M=Matrix	dicators.) ×)		wetland. Ind	
Remarks: SOILS Profile Descri (Type: C=Concer	At the samp present.	be to the depth need to the Matrix	toring well, ac n inch of star eded to docu atrix, CS=Cover	erial photos, pading water. I	revious insperience of the soils are dicator or color Grains; Location	e saturated to	the surface ence of income, M=Matrix	dicators.) ×)		wetland. Ind	
Remarks: SOILS Profile Descri (Type: C=Concer	At the samp present.	be to the depth need to the Matrix	toring well, ac n inch of star eded to docu atrix, CS=Cover	erial photos, pading water. I	revious insperience of the soils are dicator or color Grains; Location	e saturated to	the surface ence of income, M=Matrix	dicators.) ×)		wetland. Ind	
Remarks: SOILS Profile Descri (Type: C=Concer	At the samp present. iption (Descrintration, D=Deple	be to the depth need in the de	toring well, act inch of star eded to document the star edge edge edge edge edge edge edge edg	erial photos, pading water. I	revious insperience from the soils are dicator or configurations; Location (Moist)	nfirm the abse	the surface ence of income, M=Matrix	dicators.) ×)		wetland. Ind	
Remarks: SOILS Profile Descri (Type: C=Concer	At the samp present.	be to the depth need in the de	toring well, act inch of star eded to document the star edge edge edge edge edge edge edge edg	erial photos, pading water. I	revious insperience from the soils are dicator or configurations; Location (Moist)	nfirm the abse	the surface ence of income, M=Matrix	Location	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple	be to the depth need in the de	toring well, act inch of star eded to documentation, CS=Cover	crial photos, pading water. The incomposition of th	revious insperience from the soils are dicator or configurations; Location (Moist)	nfirm the abse	the surface ence of income, M=Matrix	Location	Texture Indicators f	or Problematic	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	At the samp present. iption (Descrintration, D=Deple present) ric Soil Field	be to the depth need tion, RM=Reduced Ma Matrix Color (Moist) Indicators (che	toring well, act inch of star eded to documentation, CS=Cover	erial photos, pading water. I	revious insperience from the soils are dicator or configurations; Location (Moist) (Moist) not present, Redox	nfirm the abse	the surface ence of income, M=Matrix	dicators.) x) Location	Texture Indicators f A9 - 1 cm M	or Problematic	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple present) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth need tion, RM=Reduced Ma Matrix Color (Moist) Indicators (checking the color tice)	toring well, act inch of star eded to documentation, CS=Cover	crial photos, pading water. The incomposition of th	revious inspective soils are dicator or con Grains; Location (Moist) (Moist) not present; Redox d Matrix Mucky Minera	nfirm the absence on: PL=Pore Lining Mottles %	the surface ence of income, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks Soils LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple price Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger	be to the depth need tion, RM=Reduced Ma Matrix Color (Moist) Indicators (checking Sulfide)	eded to docuatrix, CS=Cover	crial photos, pading water. In a serial photos, pading water. In a serial photos are serial s	revious inspective soils are dicator or configurations; Location (Moist) (Moist) not present, and the most present, and matrix Mucky Minera Gleyed Matrix	nfirm the absence on: PL=Pore Lining Mottles %	the surface ence of income, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple present) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified	be to the depth need to the de	toring well, act inch of star eded to documentation, CS=Cover	crial photos, pading water. Iment the income ded/Coated Sand Color Color S5 - Sandy I S6 - Stripped F1 - Loamy F2 - Loamy F3 - Deplete	revious inspective soils are dicator or configurations; Location (Moist) (Moist) (Moist) not present; Redox d Matrix Mucky Mineral Gleyed Matrix and Matrix Matrix Matrix de Matrix	nfirm the absence on: PL=Pore Lining Mottles %	the surface ence of income, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic	Remarks Soils LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple present) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	be to the depth need to the depth need to the depth need to the depth need to the detection, RM=Reduced Marx Matrix Color (Moist) Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH)	eded to docu atrix, CS=Cover	crial photos, pading water. The incomposition of th	revious inspective soils are dicator or con Grains; Location (Moist) (Moist) not present and Matrix Mucky Minera Gleyed Matrix Dark Surface	nfirm the abseon: PL=Pore Linin Mottles %	the surface ence of income, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple present) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	be to the depth need it in the second it is in	eded to docu atrix, CS=Cover	crial photos, pading water. In a color col	revious inspective soils are dicator or configurations; Location (Moist) (Moist) (Moist) not present; Redox d Matrix Mucky Mineral Gleyed Matrix and Matrix Matrix Matrix de Matrix	nfirm the abseon: PL=Pore Linin Mottles %	the surface ence of income, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple present) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	be to the depth need ition, RM=Reduced Ma Matrix Color (Moist) Indicators (check ipedon is itic in Sulfide Layers (LRR F) ick (LRR FGH) id Below Dark Surface ark Surface ark Surface	eded to docu atrix, CS=Cover	crial photos, pading water. Iment the income ded/Coated Sand Color Color S5 - Sandy II S6 - Stripped F1 - Loamy F2 - Loamy F3 - Depleted F6 - Redox II F6 - Redox II F7 - Depleted F8 - Redox II	revious inspective soils are dicator or con Grains; Location (Moist) (Moist) Redox d Matrix Mucky Minera Gleyed Matrix Ed Matrix Dark Surface ed Dark Surface Depressions	nfirm the abseon: PL=Pore Linin Mottles %	ence of income o	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple present) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mic S2 - 2.5 cm Mice	be to the depth need it in the second it is in	eded to docu eded to docu eatrix, CS=Cover	crial photos, pading water. Iment the income ded/Coated Sand Color Color S5 - Sandy II S6 - Stripped F1 - Loamy F2 - Loamy F3 - Depleted F6 - Redox II F6 - Redox II F7 - Depleted F8 - Redox II	revious inspective soils are dicator or con Grains; Location (Moist) (Moist) Redox d Matrix Mucky Minera Gleyed Matrix Ed Matrix Dark Surface ed Dark Surface Depressions	mfirm the abseon: PL=Pore Linin Mottles %	ence of income o	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark Son in Remarks)	Remarks Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple present) A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Do S1 - Sandy Muc S2 - 2.5 cm Muc S3 - 5 cm Muc	be to the depth need ition, RM=Reduced Ma Matrix Color (Moist) Indicators (check ipedon itic in Sulfide in	eded to docu eded to docu eatrix, CS=Cover	crial photos, pading water. Iment the income ded/Coated Sand Color Color S5 - Sandy II S6 - Stripped F1 - Loamy F2 - Loamy F3 - Depleted F6 - Redox II F6 - Redox II F7 - Depleted F8 - Redox II	revious inspective soils are dicator or con Grains; Location (Moist) (Moist) Redox d Matrix Mucky Minera Gleyed Matrix Ed Matrix Dark Surface ed Dark Surface Depressions	mfirm the abseon: PL=Pore Linin Mottles %	ence of income o	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic arent Material Shallow Dark S ain in Remarks)	Remarks 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.)	At the samp present. iption (Descrintration, D=Depleted A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mic S2 - 2.5 cm Muc S4 - Sandy Gl	be to the depth need ition, RM=Reduced Ma Matrix Color (Moist) Indicators (check ipedon itic in Sulfide in	eded to docu eded to docu eatrix, CS=Cover	crial photos, pading water. Iment the inced/Coated Sand Color Color S5 - Sandy I S6 - Stripped F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox I F6 - Redox I F7 - Deplete F8 - Redox I	revious inspective soils are dicator or configurations; Location (Moist) (Moist) not present) Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface ed Dark Surface Depressions Plains Depress	mfirm the abseon: PL=Pore Linin Mottles %	ence of income o	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic arent Material Shallow Dark S ain in Remarks)	Remarks Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	At the samp present. iption (Descrintration, D=Deple present) ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mic S2 - 2.5 cm Mic S3 - 5 cm Muc S4 - Sandy Gl r Type:	be to the depth need ition, RM=Reduced Ma Matrix Color (Moist) Indicators (check ipedon itic in Sulfide in	eded to docuntrix, CS=Cover	crial photos, pading water. The incomposition of th	revious inspective ficator or condicator or condicator or condicator or condicator fication (Moist) (Moist) not present fication ficatio	nfirm the absence on: PL=Pore Lining Mottles % Considerated to Mottles % H Considerated to Mottles % Mottles Mottles % Mottles Mottles	ence of income of the surface of income of income of income of income of the surface of the surface of income of the surface of the	Location H)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks) ydrophytic vegetat ed or problematic.	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface ion and wetland hydrology must be present,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-154n45w25-c1				
VEGETATIO	(Species identified in all uppercase ar	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.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 2 (B)				
5.					Total Number of Bollinian Openies / to coo / til Circle.				
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.					OBL spp. 40				
	 Total Cover =	0			FACW spp. 55 $\times 2 = 110$				
					FAC spp. 10 x 3 = 30				
Sanling/Shrub	Stratum (Diot cize: 15 ft radius)				FAC spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
1.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
2.									
3.					Total 105 (A) 180 (B)				
4.									
5.					Prevalence Index = B/A = 1.714				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
					1				
9.					Rapid Test for Hydrophytic Vegetation				
10.					XDominance Test is > 50%				
	Total Cover =	. 0			X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	35	Υ	FACW					
2.	Typha X glauca	30	Y	OBL	* Indicators of hydric soil and wetland hydrology must be				
			<u> </u>	FACW	present, unless disturbed or problematic.				
3.	Spartina pectinata	20	N						
4.	Persicaria amphibia	10	N	OBL	Definitions of Vegetation Strata:				
5.	Apocynum cannabinum	10	N	FAC					
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.									
					1				
11.					· All bank account (non-viscoth) mlanta manardiaga of sina				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	105							
	10tai 00v0i –	100							
\\\\ \\\\ \\\	that was (Dist along 00 ft madical)								
	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?Y				
5.									
4.									
	Total Cover =	: 0							
Remarks:			ty type is borde	erline shallow	marsh, but most of the wetland area is dominated by reed canary grass and cordgrass without much cattail.				
rtemants.					nd Typha X glauca, a hybrid swarm from which the two taxa cannot be reliably separated.				
Additional Remarks:									