WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/15/14	
Applicant:		Enbridge				/a a a a a	\	=		County: State:	Pennington	
Investigators: RAJ/BEH/MRK				Subregion (MLRA or LRR): MLRA 56							MN	
Soil Unit: Landform:	I75A Backslope				cal Relief:		Classification:			- Comple Deint	u-154n44w31-j1	
Slope (%):	8 - 15%		Latitude: 48.12		Longitude:		R91	Datum:			<u>u-1341144W31-j1</u>	
. , ,		nditions on the site						✓ Yes	□ No	Section:		
Are Vegetation		☑, or Hydrology	- · · · · · · · · · · · · · · · · · · ·		(,,		normal circum			Township:		
Are Vegetation		□, or Hydrology	•				✓ Yes	□ No		Range:	Dir:	
SUMMARY C			<i>y</i> 1							Ü		
Hydrophytic \	Vegetation P	resent?	No					Hydric Soi	ls Present?	^o No		
Wetland Hyd			No							nt Within A W		
Remarks:	An upland p	oint by a gravel pi	it access road	Though the	point is 15	feet fro	m the access	road, it appe	ears there i	is a layer of s	ooil at the soil surface.	
HYDROLOG'	Y											
Wetland Hy	drology Indi	cators (Check all	that apply; Mi	nimum of on	e primary c	or two se	econdary requi	ed):				
<u>Primary:</u>	_	A		_	D44 0 11 0				Secondary _			
□ A1 - Surface Water□ A2 - High Water Table					B11 - Salt C B13 - Aquat					B6 - Surface S	ioil Cracks Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydrog		e Odor			B10 - Drainag		
	B1 - Water Ma			_	C2 - Dry Se				_		Rhizospheres on Living Roo	ts (tilled)
	B2 - Sedimen	•					pheres on Living	Roots (not till	€ □	C8 - Crayfish		, ,
	B3 - Drift Dep				C4 - Presen						n Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin M Other (Expla		ce			D2 - Geomorp D5 - FAC-Neu		
		n Visible on Aerial Im	nagery	_	Othor (Expir	J.11)					aved Hummocks (LRR F)	
	B9 - Water-St		0 ,								, ,	
Field Observ												
Surface Wate		Yes	Depth		(in.)			Wetland F	lvdrology	Present?	N	
Water Table		Yes	Depth		(in.)			Trottana i	.ya.o.ogy		<u></u>	
Saturation Pr	resent?	Yes □	Depth		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	tream gauge, mon	itoring well, aer		` '	ections), i	if available:					
Describe Reco	•	tream gauge, mon		ial photos, pro	` '	ections), i	if available:					
Remarks:	•			ial photos, pro	` '	ections), i	if available:					
Remarks:	No indicator	rs of wetland hydro	ology are pres	ial photos, proent.	evious inspe	•		dicators				
Remarks: SOILS Profile Descri	No indicator	es of wetland hydro	ology are pres	ial photos, proent. nent the indi	evious inspe	nfirm the	e absence of in					
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Remarks: SOILS Profile Descri	No indicator	es of wetland hydro	ology are pres	ial photos, proent. nent the indi	evious inspe	nfirm the	e absence of in ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth neetion, RM=Reduced Matrix	ology are pres	ial photos, proent. ment the indicated Sand of	evious inspectator or cor	nfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri	No indicator	be to the depth ne	eeded to docur atrix, CS=Covered	ial photos, proent. nent the indi	evious inspectator or cor	nfirm the	e absence of in ore Lining, M=Matr	ix)	Texture	with abundant gra		
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1	eeded to docuratrix, CS=Covered	ial photos, proent. ment the indicated Sand of	evious inspectator or cor	nfirm the	e absence of in ore Lining, M=Matr	ix)		with abundant gra	avel and stones, likely spoil	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1	eeded to docuratrix, CS=Covered	ial photos, proent. ment the indicated Sand of	evious inspectator or cor	nfirm the	e absence of in ore Lining, M=Matr	ix)	LS		avel and stones, likely spoil	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1	eeded to docuratrix, CS=Covered	ial photos, proent. ment the indicated Sand of	evious inspectator or cor	nfirm the	e absence of in ore Lining, M=Matr	ix)	LS		avel and stones, likely spoil	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No indicator ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 2/1	eeded to docuratrix, CS=Covered % 100 100	ial photos, proent. ment the indicated Sand of Color (cator or cor Grains; Location	nfirm the	e absence of in ore Lining, M=Matr	ix)	LS		avel and stones, likely spoil	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No indicator ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 2/1	eeded to docuratrix, CS=Covered	ial photos, proent. ment the indicated Sand of Color (cator or cor Grains; Location	nfirm the	e absence of in ore Lining, M=Matr es Type	ix)	LS SL		avel and stones, likely spoil opsoil	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No indicator ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 2/1	eeded to docuratrix, CS=Covered % 100 100	ial photos, proent. ment the indicated Sand of Color (cator or cor Grains; Location Moist)	nfirm the	e absence of in ore Lining, M=Matr es Type	Location	LS SL	likely a remnant t	avel and stones, likely spoil opsoil	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	No indicator Iption (Descriptration, D=Depleted Programmer) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 2/1 Indicators (chain)	eeded to docuratrix, CS=Covered % 100 100	ial photos, proent. ment the indicators and control (1) Color (1) Standard Sand Control (1) Color (1)	cator or cor Grains; Location Moist) not present; edox Matrix	nfirm the on: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm N A16 - Coas	for Problemati Muck (LRR I, J) t Prairie Redox	experience and stones, likely spoil opsoil o	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 2/1 Indicators (chains)	eeded to docuratrix, CS=Covered % 100 100	ial photos, proent. ment the indicators are results. S5 - Sandy Res6 - Stripped F1 - Loamy Notes	cator or cor Grains; Location Moist) Moist) not present; edox Matrix Mucky Minera	nfirm the on: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S	for Problemati 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.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 2/1 Indicators (chain in Sulfide	eeded to docuratrix, CS=Covered % 100 100 neck here if income	ial photos, proent. ment the indicators and control of the indicators are respectively. S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	cator or cor Grains; Location Moist) Moist) not present; edox Matrix Mucky Minera	nfirm the on: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressi	experience and stones, likely spoil opsoil o	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 2/1 Indicators (chain and in Sulfide Layers (LRR F)	eeded to docuratrix, CS=Covered % 100 100	ial photos, proent. ment the indicators are results. Color (Included Sand Color) S5 - Sandy Results S6 - Stripped F1 - Loamy Results S6 - Stripped F1 - Loamy Results S6 - Depleted S7 - Deplet	cator or cor Grains; Location Moist) Moist) oot present; edox Matrix Mucky Minera Gleyed Matrix I Matrix	nfirm the on: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressiced Vertic	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 2/1 Indicators (chain in Sulfide	eeded to docuratrix, CS=Covered %	ial photos, proent. ment the indicators and control of the indicators are respectively. S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	cator or cor Grains; Location Moist) Moist) oot present; edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface	nfirm the on: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressi	exel and stones, likely spoil opsoil C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced Matrix Matrix Color (Moist) 3/1 2/1 Indicators (chaine) ipedon istic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to docuratrix, CS=Covered %	ial photos, proent. ment the indicators are results. Color (Included Sand Color) Color (Included Sand Color) Color (Included Sand Color) Color (Included Sand Color) S5 - Sandy Respect S6 - Stripped F1 - Loamy Respect S6 - Redox Depleted F6 - Redox Depleted F6 - Redox Depleted F8	cator or cor Grains; Location Moist) Moist) edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface epressions	nfirm the on: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressioned Vertic Parent Material	exel and stones, likely spoil opsoil C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 2/1 Indicators (chain and a sulfide and sulfide and a sulfide and a sulfide and a sulfide ark Surface ark Surface ark Surface ark Surface ark Surface ark Surface ark Peat (L	eeded to documentarix, CS=Covered %	ial photos, proent. ment the indicators are results. Color (Included Sand Color) Color (Included Sand Color) Color (Included Sand Color) Color (Included Sand Color) S5 - Sandy Respect S6 - Stripped F1 - Loamy Respect S6 - Redox Depleted F6 - Redox Depleted F6 - Redox Depleted F8	cator or cor Grains; Location Moist) Moist) edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface epressions	nfirm the on: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red R TF12 - Very Other (Expl	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressiced Vertic Parent Material / Shallow Dark S ain in Remarks)	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-154n44w31-j1		
VEGETATIO		re non-native	species.)				
Tree Stratum ((Plot size: 30 ft. radius)	0/ 0			Dominanaa Taat Warkahaat		
1	Species Name	% Cover	Dominant Y	Ind.Status	Dominance Test Worksheet		
1. 2.	Acer negundo Populus balsamifera	25 20	Y	FAC	Number of Deminent Species that are ORL EACW or EAC:		
3.		15	<u> Т</u>	FACW FAC	Number of Dominant Species that are OBL, FACW, or FAC:3(A)		
4.	Populus tremuloides	10	<u> </u>	FAC	Total Number of Dominant Species Across All Strata: 6 (B)		
5.					Total Number of Dominant Species Across All Strata.		
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)		
7.					referred bolimant species that Are OBE, I ACW, of I AC (AVB)		
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.					OBL spp. 0 x 1 = 0		
10.	 Total Cover =	60			FACW spp. $\frac{20}{20}$ \times $\frac{20}{20}$ \times $\frac{20}{20}$ \times $\frac{20}{20}$		
	1000 -		_		FAC spp. $\frac{25}{45}$ $\times 3 = \frac{135}{135}$		
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{35}{35}$ $\times 4 = \frac{140}{140}$		
1.	Symphoricarpos occidentalis	20	Υ	UPL	UPL spp. $\frac{35}{95}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$		
2.	Rosa acicularis	10	Y	FACU			
3.	Toxicodendron rydbergii	5	N	FACU	Total 195 (A) 790 (B)		
4.					(=/		
5.					Prevalence Index = B/A = 4.051		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					Dominance Test is > 50%		
	Total Cover =	35			Prevalence Index is ≤ 3.0 *		
					Morphological Adaptations (Explain) *		
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Bromus inermis	75	Υ	UPL			
2.	Solidago canadensis	10	N	FACU	* Indicators of hydric soil and wetland hydrology must be		
3.	Cirsium arvense	10	N	FACU	present, unless disturbed or problematic.		
4.	Thalictrum dasycarpum	5	N	FAC	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					
			_				
Woody Vine St	ratum (Plot size: 30 ft. radius)						
1.							
2.							
3.					Hydrophytic Vegetation Present? N		
5.							
4.							
	Total Cover =	0					
Remarks:	An upland community dominated by boxelde	er, trembling	g aspen, b	alsam po _l	olar, and smooth brome. Hydrophytic vegetation is not present.		
Additional R	Remarks:						
1							