WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/26/14
Applicant:		Enbridge									County:	Pennington
Investigators		BEH/NTT				Subregion	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	148A				_			I Classification	າ:			
Landform:	Footslope					cal Relief:					Sample Point:	u-154n44w20-b1
Slope (%):	3 - 7%	197 41 14	Latitude: 48			Longitude:			Datum:			
		nditions on the sit				I f'? (If no, exp				□ No	Section:	
Are Vegetation		☑, or Hydrology		•			Are	e normal circui	-	esent?	Township:	
Are Vegetation		□, or Hydrology	□aturally	problem	natic?			✓ Yes	□ No		Range:	Dir:
SUMMARY C												
Hydrophytic '	•		<u>No</u>							Is Present?		
Wetland Hyd			No								t Within A We	etland? No
Remarks:	Upland sam	ple point in a rece	ently tilled g	grasslan	id; vegeta	ation is spa	arse. Th	e site is upslo _l	pe from a se	dge meado	W.	
HYDROLOG	Υ											
Wetland Hy	drology Ind	icators (Check all	I that apply:	: Minimu	um of one	e primary o	or two s	econdary requ	ired):			
Primary	•	(1		,		, ,		, , ,	/	Secondary:		
	A1 - Surface \	Nater				B11 - Salt 0	Crust				B6 - Surface S	oil Cracks
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation					C1 - Hydrog					B10 - Drainage	
	B1 - Water M B2 - Sedimen					C2 - Dry Se		iter Table spheres on Living	a Poots (not till	, .	C3 - Oxidized I	Rhizospheres on Living Roots (tille
	B3 - Drift Dep	•				C4 - Preser			y ixoots (not till	, –		Note that it is a visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M				_	D2 - Geomorpl	
	B5 - Iron Dep					Other (Expl					D5 - FAC-Neut	
	B7 - Inundation	n Visible on Aerial Im	nagery			` .	,				D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
Field Obser	vations:											
Surface Wat	er Present?	Yes □	De	epth:		(in.)			Wetland H	lydrology F	Present?	N
Water Table	Present?	Yes □	De	epth:		(in.)			Wetland I	iyarology i	rieseiit:	
Saturation P	resent?	Yes □	De	epth:		(in.)						
Describe Rec	orded Data (s	stream gauge, mon	itorina well.	aerial pł	hotos, pre	evious insp	ections).	if available:				
	·	stream gauge, mon					ections),	if available:				
Describe Rec Remarks:	·	stream gauge, mon or secondary hydr					ections),	if available:				
Remarks:	·						ections),	if available:				
Remarks:	No primary	or secondary hydr	rological ind	dicators	were ob	served.			ndicators.)			
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological ind	dicators	were ob	served.	onfirm the	e absence of i				
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological ind	dicators	were ob	served.	onfirm the	e absence of i				
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological ind	dicators	were ob	served.	onfirm the	e absence of i ore Lining, M=Mat				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrometric be to the depth necession, RM=Reduced M	rological independent of the control	dicators ocument	were ob t the indicated Sand C	served. cator or co Grains; Locat	onfirm the	e absence of i ore Lining, M=Mat	trix)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to do	dicators ocument vered/Coa	were ob	served. cator or co Grains; Locat	onfirm the	e absence of i ore Lining, M=Mat		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	No primary iption (Descrintration, D=Depl	or secondary hydrone be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do	ocument vered/Coa	were ob t the indicated Sand C	served. cator or co Grains; Locat	onfirm the	e absence of i ore Lining, M=Mat	trix)	SIC		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to do	ocument vered/Coa	were ob t the indicated Sand C	served. cator or co Grains; Locat	onfirm the	e absence of i ore Lining, M=Mat	trix)			Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	No primary iption (Descrintration, D=Depl	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to do	ocument vered/Coa	were ob t the indicated Sand C	served. cator or co Grains; Locat	onfirm the	e absence of i ore Lining, M=Mat	trix)	SIC		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to do	ocument vered/Coa	were ob t the indicated Sand C	served. cator or co Grains; Locat	onfirm the	e absence of i ore Lining, M=Mat	trix)	SIC		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24	No primary iption (Description, D=Deplementation, D=Deplementation	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 3/2	eeded to do fatrix, CS=Cov	ocument vered/Coa	t the indicated Sand C	cator or co Grains; Locat	onfirm the	e absence of i ore Lining, M=Mat es Type	trix)	SIC		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 3/2	eeded to do	ocument vered/Coa	t the indicated Sand C	cator or co Grains; Locat	onfirm the	e absence of i ore Lining, M=Mat	trix)	SIC		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24	No primary iption (Description, D=Deplementation, D=Deplementation	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 3/2	eeded to do fatrix, CS=Cov	% 00 00 f indicate	t the indicated Sand Color (N	cator or co Grains; Locat Moist)	onfirm the	e absence of i ore Lining, M=Mat es Type	Location	SIC SCL S	or Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	or secondary hydrotetion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 3/2 Indicators (ch	eeded to do fatrix, CS=Cov	ocument vered/Coa	t the indicated Sand Color (Note of Sand)	cator or co Grains; Locat Moist) ot present	onfirm the	e absence of i ore Lining, M=Mat es Type	Location	SIC SCL S Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	or secondary hydroteletion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 3/2 Indicators (chain)	eeded to do fatrix, CS=Cov	cument vered/Coa	Color (I	cator or co Grains; Locat Moist) ot present	mfirm the	e absence of i ore Lining, M=Mat es Type	Location	SIC SCL S Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 3/2 Indicators (chain in the depth neetion, RM=Reduced Matrix Color (Moist) (chain in the depth neetion in the depth neetion, RM=Reduced Matrix (chain in the depth neetion)	eeded to do fatrix, CS=Cov	% 00 00 f indicate S5- S6- F1-	Color (Incomplete the indicated Sand Color (Incomplete Sandy Research	cator or co Grains; Locat Moist) ot present edox Matrix lucky Minera	Mottle %	e absence of i ore Lining, M=Mat es Type	Location	SIC SCL S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 3/2 Indicators (chain in Sulfide	eeded to do fatrix, CS=Cov	dicators cument vered/Coa % 00 00 00 f indicate S5 - S6 - S6 - F1 - F2 -	Color (Inc.) Color (Inc.) Cors are note: Sandy Recompleted Stripped Color (Inc.)	cator or co Grains; Locat Moist) ot present edox Matrix lucky Minera	Mottle %	e absence of i ore Lining, M=Mat es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 3/2 Indicators (chain ipedon stick in Sulfide Layers (LRR F)	eeded to do fatrix, CS=Cov	dicators cument vered/Coa % 00 00 f indicate S5 - S6 - F1 - F2 - F3 -	Color (Note of the indicated Sand Color	cator or co Grains; Locat Moist) ot present edox Matrix lucky Minera leyed Matrix Matrix	Mottle %	e absence of i ore Lining, M=Mat es Type	Location	SIC SCL S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic	Soils ¹ LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 3/2 Indicators (chain chain chair chain c	eeded to do fatrix, CS=Cov	f indicate S5 - S6 - F1 - F2 - F6 - F7 - F7 -	Color (I Sandy Ro Stripped Loamy M Loamy G Depleted Redox D Depleted	cator or co Grains; Locat Moist) ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface	Mottle %	e absence of i ore Lining, M=Mat es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 18-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR 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 neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 3/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to do fatrix, CS=Cov	Cument Cered/Coa Cered/C	Color (Note that indicated Sand Color (Note that indicated Sand Color (Note that indicated Sand Color (Note that indicated Sandy Reference that indicated Sandy Reference that indicated i	cator or co Grains; Locat Moist) ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface epressions	Mottle % solution: PL=Pi Mottle % c):	e absence of i ore Lining, M=Mat es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	E 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-154n44w20-b1
					<u> </u>
VEGETATIO	N (Species identified in all uppercase	are non-native	e species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	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: 7 (B)
5.					··································
6.	_	-			Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)
7.					(742)
8.	<u></u>				Prevalence Index Worksheet
9.		_			Total 9/ Cover of Nathink by
					Total % Cover of: Multiply by:
10.	Total Cayor				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Total Cover	= 0			Total % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 6 x 2 = 12 FAC spp. 0 x 3 = 0 FACU spp. 22 x 4 = 88 UPL spp. 0 x 5 = 0
					FAC spp. $0 \times 3 = 0$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 22
1.					$UPL spp. \underline{\qquad 0 \qquad \qquad X \ 5 = \underline{\qquad 0 \qquad }$
2.					
3.					Total <u>28</u> (A) <u>100</u> (B)
4.					
5.					Prevalence Index = $B/A = 3.571$
6.					1
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	Total Cover	= 0			Prevalence Index is ≤ 3.0 *
	Total Cover				
Lind Of and and	District of Green Process				Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			E4011	Problem Hydrophytic Vegetation (Explain) *
1.	Elymus repens	10	Y	FACU	
2.	Dactylis glomerata	3	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Barbarea vulgaris	3	Υ	FACU	present, unless disturbed or problematic.
4.	Melilotus officinalis	3	Υ	FACU	Definitions of Vegetation Strata:
5.	Phalaris arundinacea	3	Υ	FACW	
6	Poa pratensis	3	Υ	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Agrostis gigantea	3	Υ	FACW	height (DBH), regardless of height.
8.		1			1
9.		1			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					1
11.					1
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.	J	1			1
	<u> </u>				4
14.					All woods wines are provided of beight
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover	= 28			
Woody Vine St	ratum (Plot size: 30 ft. radius)	_			
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.				_	
4.					
	Total Cover	= 0			
Remarks:	Sample site is sparsely vegetated with plan		ın after tilla	ade, dnack	k grass is most prevalent
Tromanto.	Cample site is sparsely vegetated with plan	no coming a	ip arter time	igo, quaor	v grass is most prevalent.
	_				
Additional F	Remarks:				