WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/01/14
Applicant:		Enbridge									County:	Red Lake
Investigators		NTT/BEH				Subregio	n (MI RA	or LRR)	MLRA 56		State:	MN
Soil Unit:	159A	IVI II DEII				Cubiogioi		Classification:			Olato.	
Landform:	Depression				Lo	cal Relief:		Oldoolilodiloli.			Sample Point	w-151n42w9-d1
Slope (%):	16 - 25%		Latitude:	47 919		Longitude:		053	Datum:		Campie i cint.	<u></u>
		nditions on the sit							⊡Yes	□No	Section:	
Are Vegetation		or Hydrology			disturbed?	ai : (ii iio, exp		normal circum				
Are Vegetation		or Hydrology					Aic	✓ Yes	□No	Journ:	Township:	Dir:
SUMMARY C		, , ,,	□ atturar	iy proc	nematic:			1 103	<u> </u>		Range:	DII.
									Libraria O a il	- D+0	V	
Hydrophytic \			_	Yes					Hydric Soil			11 10 V
Wetland Hyd				Yes				2 11 1			t Within A W	
Remarks:		is a snallow mars	sn locate	a withi	n a roadside	e ditch adj	acent to	a raiiroad track	. Dominant	vegetation	includes reed	d canary grass and narrow-leaf
	cattail.											
HYDROLOG'	Υ											
Wetland Hv	droloav Ind	icators (Check all	I that app	lv: Min	imum of on	e primary	or two se	econdary requir	ed):			
Primary:		(01.00.1 a	. п.агарр	.,		o pa. y	0	, , , , , , , , , , , , , , , , , , ,	04/.	Secondary:		
	A1 - Surface	Nater				B11 - Salt (Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa	ter Table				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation					C1 - Hydro					B10 - Drainage	
	B1 - Water M					C2 - Dry Se			Daata (+ #:II		C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep					C4 - Prese		pheres on Living	Roots (not till			n Visible on Aerial Imagery
I	B4 - Algal Ma					C7 - Thin N					D2 - Geomorp	
	B5 - Iron Dep					Other (Exp					D5 - FAC-Neu	
		n Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
Field Observ	vations:											
Surface Water	er Present?	Yes 🔲		Depth:		(in.)			\A/-4		D	V
Water Table	Present?	Yes \square		Depth:					Wetland H	iyarology i	Present?	Y
Saturation Pr		Yes \square		Depth:		(in.)						_
D 11 D	1.15.4.7					,						
		tream gauge, mon										***
Remarks:		stream gauge, mon hydrology indicato							hytic vegeta	ation preser	nt and landsc	ape position.
Remarks:									hytic vegeta	ation preser	nt and landsca	ape position.
Remarks:	No primary	hydrology indicato	ors presei	nt. We	tland hydrol	ogy is ass	umed ba	ased on hydrop		ation preser	nt and landsc	ape position.
Remarks: SOILS Profile Descri	No primary	hydrology indicators be to the depth ne	ors preser	nt. We	tland hydrol	ogy is ass	onfirm the	ased on hydrop e absence of in	dicators.)	ation preser	nt and landsc	ape position.
Remarks: SOILS Profile Descri	No primary	hydrology indicato	ors preser	nt. We	tland hydrol	ogy is ass	onfirm the	ased on hydrop e absence of in	dicators.)	ation preser	nt and landsca	ape position.
Remarks: SOILS Profile Descri	No primary	hydrology indicate be to the depth ne etion, RM=Reduced M	ors preser	nt. We	tland hydrol	ogy is ass	onfirm the	esed on hydrop e absence of in ore Lining, M=Matri	dicators.)	ation preser	nt and landsca	ape position.
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators be to the depth neetion, RM=Reduced M	ors preser	docum	tland hydrol nent the indi Coated Sand (ogy is ass cator or co Grains; Local	onfirm the	e absence of in ore Lining, M=Matri	dicators.)		nt and landsca	
Remarks: SOILS Profile Descri	No primary	hydrology indicate be to the depth ne etion, RM=Reduced M	ors preser	nt. We	tland hydrol	ogy is ass cator or co Grains; Local	onfirm the	esed on hydrop e absence of in ore Lining, M=Matri	dicators.)	Texture	nt and landsca	ape position. Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators be to the depth neetion, RM=Reduced M	ors preser	docum	tland hydrol nent the indi Coated Sand (ogy is ass cator or co Grains; Local	onfirm the	e absence of in ore Lining, M=Matri	dicators.)		nt and landsc	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators be to the depth neetion, RM=Reduced M	ors preser	docum	tland hydrol nent the indi Coated Sand (ogy is ass cator or co Grains; Local	onfirm the	e absence of in ore Lining, M=Matri	dicators.)		nt and landsca	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators be to the depth neetion, RM=Reduced M	ors preser	docum	tland hydrol nent the indi Coated Sand (ogy is ass cator or co Grains; Local	onfirm the	e absence of in ore Lining, M=Matri	dicators.)		nt and landsca	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators be to the depth neetion, RM=Reduced M	ors preser	docum	tland hydrol nent the indi Coated Sand (ogy is ass cator or co Grains; Local	onfirm the	e absence of in ore Lining, M=Matri	dicators.)		nt and landsca	
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to elatrix, CS=C	docum Covered/	tland hydrol nent the indi Coated Sand (Color (I	ogy is ass cator or cc Grains; Local Moist)	onfirm the	e absence of in ore Lining, M=Matri	dicators.)		nt and landsca	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to elatrix, CS=C	docum Covered/	tland hydrol nent the indi Coated Sand (ogy is ass cator or cc Grains; Local Moist)	onfirm the	e absence of in ore Lining, M=Matri es Type	dicators.)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary iption (Descriptration, D=Depl	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to elatrix, CS=C	docum Covered/ %	tland hydrol lent the indi Coated Sand (Color (I	cator or co Grains; Local Moist)	onfirm the	e absence of in ore Lining, M=Matri es Type	Location	Texture	or Problematic	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Description, D=Depl	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (ch	eeded to elatrix, CS=C	docum Covered/ %	tland hydrol lent the indi Coated Sand (Color (I cators are r S5 - Sandy R	cator or co Grains; Local Moist)	onfirm the	e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture Indicators f A9 - 1 cm M	for Problematic	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary iption (Descriptration, D=Depl	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chippedon	eeded to elatrix, CS=C	docum Covered/ %	tland hydrol lent the indi Coated Sand (Color (I cators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Local Moist) Moist) not presen edox Matrix	med based ba	e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture Indicators f A9 - 1 cm M A16 - Coast	or Problematic	Remarks c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Description, D=Depl	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch	eeded to elatrix, CS=C	docum Covered/ %	tland hydrol lent the indi Coated Sand (Color (I cators are r S5 - Sandy R	ogy is ass cator or cc Grains; Local Moist) Mot presen edox Matrix lucky Minera	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descriptration, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch	eeded to elatrix, CS=C	docum Covered/ %	tland hydrol lent the indi Coated Sand (Color (I cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Local Moist) Moist) not presen edox Matrix Mucky Minera	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6	For Problematic luck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks c Soils¹ CLRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	no primary iption (Description, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chipedon in Sulfide Layers (LRR F) ck (LRR FGH)	eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy S F3 - Depleted F6 - Redox D	cator or co Grains; Local Moist) Moist) not presen edox Matrix lucky Minera eleyed Matrix Matrix ark Surface	med based on the second of the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	For Problematic luck (LRR I, J) Prairie Redox (Jurface (LRR G) Plains Depression led Vertic Parent Material	Remarks C Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No primary iption (Descrintration, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac	eeded to latrix, CS=C	docum covered/	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F6 - Redox D F7 - Depleted	cator or cc Grains; Local Moist) Moist) Mot presen edox Matrix Jucky Minera Juck	med based on the second of the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	For Problematic Juck (LRR I, J) Prairie Redox (Jurface (LRR G) Plains Depression Jurie Material Shallow Dark S	Remarks C Soils¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	no primary iption (Descriptration, D=Depi 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) Indicators (chairman and chairman	eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) Mot presen edox Matrix lucky Mineral leyed Matrix Matrix ark Surface Dark Surfae epressions	med based ba	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	For Problematic luck (LRR I, J) Prairie Redox (Jurface (LRR G) Plains Depression led Vertic Parent Material	Remarks C Soils¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chairman and chairman	eeded to elatrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) Mot presen edox Matrix lucky Mineral leyed Matrix Matrix ark Surface Dark Surfae epressions	med based ba	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	For Problematic Juck (LRR I, J) Prairie Redox (Jurface (LRR G) Plains Depression Jurie Material Shallow Dark S	Remarks C Soils¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary iption (Descrintration, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	hydrology indicator be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chairman and the color in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surfacark Surface ucky Mineral Lucky Peat or Peat (LR)	eeded to eeded to elatrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) Mot presen edox Matrix lucky Mineral leyed Matrix Matrix ark Surface Dark Surfae epressions	med based ba	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sr F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Explain	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) led Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks C Soils¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S3 - 5 cm Mu	hydrology indicator be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chairman and the color in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surfacark Surface ucky Mineral Lucky Peat or Peat (LR)	eeded to eeded to elatrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) Mot presen edox Matrix lucky Mineral leyed Matrix Matrix ark Surface Dark Surfae epressions	med based ba	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sr F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Explain	For Problematic for Problematic for LRR I, J) Prairie Redox (for LRR G) Plains Depression for LRR G) Parent Material Shallow Dark S sin in Remarks)	Remarks C Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

	Project/Site:	: L3R				Sample Point: w-151n42w9-d1
Stratum (Plot size: 5ft radius)						
Species Name			e non-native	species.)		
1	ree Stratum					Danisana Tark Wadabark
Number of Dominant Spaces that are OBL, FACW, or FACL 1		<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
3.						
Total Number of Dominant Species Arross All Strats: 1 (B)	2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
Percent of Dominant Species That Are ORL, FACW, or FAC: 100.0% (A/B)	3.					
Percent of Dominant Species That Are ORL, FACW, or FAC: 100.0% (A/B)	4.					Total Number of Dominant Species Across All Strata: 1 (B)
Provision Prov	5.					,,
Provision Prov						Percent of Dominant Species That Are OBL_EACW_or EAC: 100.0% (A/B)
Prevalence Index Worksheet						(182)
10						Dravalance Index Montrehest
Total Cover = 0						
Total Cover = 0						
FAC spn	10.	<u> </u>				
FAC spn		Total Cover =	0	_		FACW spp. 85 x 2 = 170
1						FAC spp. $0 x 3 = 0$
1	pling/Shrub	Stratum (Plot size: 15 ft. radius)				
Total 100 (A) 185 (B)						UPL spp. 0 x 5 = 0
Total 100 (A) 185 (B)						···
A						Total 100 (A) 185 (B)
Prevalence Index = B/A = 1.850						100 (F) 100 (D)
Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Rapid Test for Hydrophytic Vegetation X Dominance Test is > 50% X Prevalence Index is ≤ 3.0 ° Morphological Adaptations (Explain) ° Problem Hydrophytic Vegetation (Indicators:						December 20
Total Cover = 0						Prevalence Index = B/A = 1.850
B.						
Replication	7.					
Replication	8.					Hydrophytic Vegetation Indicators:
Total Cover = 0	9.					
Total Cover = 0 ## Stratum (Plot size: 5 ft. radius) 1.	10.					
Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *		Total Cover =	0			
rb Stratum (Plot size: 5 ft. radius) 1.		10101 00101		_		
1. Phalairs anundinacea 85 Y FACW 2. Typha angustifolia 15 N OBL 3.	Ctt /	(District of tradition)				
2. Typha angustifolia 15 N OBL 3. 4. 5. 6 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 10. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 19. 10. 10. 10. 11. 12. 13. 14. 15. 15. 16. 17. 18. 19. 19. 19. 19. 10.			0.5		EACIA/	Problem Hydrophytic Vegetation (Explain)
3. Definitions of Vegetation Strata: 5. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 8. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height. Total Cover =						* Indicators of budgin only and watered budgeton, as at bo
4. Definitions of Vegetation Strata: 5. Tree - Woody plants 3 in. (7.6m) or more in diameter at breast height (DBH), regardless of height. 8. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. 10. Sapling/Shrub - All herbaceous (non-woody) plants, regardless of size. 13. Herb - All herbaceous (non-woody) plants, regardless of size. 14. Woody Vines - All woody vines, regardless of height. 15. Woody Vines - All woody vines, regardless of height. 2. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Woody Vines - All woody vines, regardless of height. 4. Hydrophytic Vegetation Present? Y Y 5. Hydrophytic Vegetation Present? Y Total Cover = 0 The wetland vegetation is dominated by reed canary grass.		Typha angustifolia	15	N	OBL	
Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.						
Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height. Total Cover =100	4.					Definitions of Vegetation Strata:
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