WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/13/14	
Applicant:		Enbridge									County:	Red Lake	
Investigators	s:	NTT/BEH				Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I7A	•						Classification:			1		
Landform:	Rise				Lo	cal Relief:					Sample Point	u-150n41w2-a1	
Slope (%):	0 - 2%		Latitude: 47	7 846		Longitude:		071	Datum		Campio : cint.		
		nditions on the site							⊡Yes	□No	Continu		
						ar : (if no, exp					Section:		
Are Vegetati		or Hydrology			listurbed?		Are	normal circun		esent?	Township:		
Are Vegetati		I ☐ or Hydrology	Laturally	/ probl	lematic?			Yes	□No		Range:	Dir:	
SUMMARY (OF FINDING:	S											
Hydrophytic	Vegetation P	resent?	No	Ю					Hydric So	ils Present?	No No		
	drology Prese		No	0					Is This Sa	mplina Poin	nt Within A W	etland? No	
Remarks:	The unland	point is located on			d field with	very little v	egetatio	n present		ļ			
r comance.	The apiana	point io located on	1 4 1100 111 0	a anoc	a noid with	vory intio v	ogotatio	in procont.					
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check all	that apply	v: Mini	imum of on	e primary	or two se	econdary requi	red):				
Primary			,	, ,		,			/	Secondary:	:		
	A1 - Surface	Water				B11 - Salt (Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa	ter Table				B13 - Aqua	tic Fauna				B8 - Sparsely \	Vegetated Concave S	urface
	A3 - Saturation	n				C1 - Hydro	gen Sulfid	le Odor			B10 - Drainage	Patterns	
	B1 - Water M	arks				C2 - Dry Se						Rhizospheres on Livin	g Roots (tilled)
	B2 - Sedimen	t Deposits						spheres on Living	Roots (not til		C8 - Crayfish E		
	B3 - Drift Dep					C4 - Prese						Visible on Aerial Ima	gery
	B4 - Algal Ma					C7 - Thin M		ace			D2 - Geomorp		
	B5 - Iron Dep					Other (Expl	lain)				D5 - FAC-Neut		
		on Visible on Aerial Im	nagery								D7 - Frost-Hea	ved Hummocks (LRR	(F)
	B9 - Water-S	tained Leaves											
Field Obser	vations:												
Surface Wat	ter Present?	Yes 🔲	De	epth:		(in.)							
Water Table		Yes 🗆							Wetland I	Hydrology I	Present?	N	
Saturation P		Yes 🗆		_		(in.)							
Gaturation	resent:	165	D	epth:		(111.)							
Describe Rec	corded Data (s	stream gauge, moni	itoring well,	, aeria	l photos, pre	evious insp	ections),	if available:					
Remarks:		stream gauge, moni hydrology indicato			l photos, pre	evious insp	ections),	if available:					
					l photos, pre	evious insp	ections),	if available:					
					l photos, pre	evious insp	ections),	if available:					
Remarks:	No wetland	hydrology indicato	ors present	t.			·		ndicators.)				
Remarks: SOILS Profile Descr	No wetland	hydrology indicato	ors present	t. ocume	ent the indi	cator or co	onfirm the	e absence of ir					
Remarks: SOILS Profile Descr	No wetland	hydrology indicato	ors present	t. ocume	ent the indi	cator or co	onfirm the	e absence of ir					
Remarks: SOILS Profile Descr	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma	ors present	t. ocume	ent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mati					
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix	eeded to do	ocume	ent the indic	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr	ix)	Touturo		Domarko	
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	ocume overed/0	ent the indi	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland ription (Description, D=Depl	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	ocume overed/0	ent the indic	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr	ix)	SIC		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	ocume overed/0	ent the indic	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr	ix)			Remarks	
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-11 5-11 11-20 11-20 NRCS Hydi	No wetland ription (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histos Ep A3 - Black His A4 - Hydroge	hydrology indicato libe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 5/2 4/1 Indicators (ch	eeded to do atrix, CS=Co	00000000000000000000000000000000000000	Color (I Hue_5YR Hue_5YR Hue_5YR Cators are r S5 - Sandy R 66 - Stripped F1 - Loamy M	Cator or co Grains; Locat Moist) 3/3 3/3 3/3 3/3 aot present	monfirm the months of the mont	e absence of ir	Location M M M C	SIC SIC SC SCL SC Indicators 1 A9 - 1 cm 1 A16 - Coast S7 - Dark Si	fluck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depressio	: <mark>Soils¹</mark> LRR F, G, H)	73)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-11 5-11 11-20 11-20 NRCS Hydi	No wetland ription (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black Hist A4 - Hydroge A5 - Stratified	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 5/2 4/1 Indicators (ch	eeded to do atrix, CS=Co	% % 1100 45 54 665 if indices in	Color (I Hue_5YR Hue_5YR Hue_5YR Hue_5YR Cators are r S5 - Sandy R S6 - Stripped E1 - Loamy M E2 - Loamy G	Moist) 3/3 3/3 3/3 3/3 ot present	Mottle Mottle 3 2 tt):	e absence of ir	Location M M M C C C C C C C C C C C C C C C C	SIC SIC SC SCL SC Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc	fluck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depressio	: <mark>Soils¹</mark> LRR F, G, H)	73)
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Remarks: SOILS Profile Descr (Type: C=Conce	No wetland ription (Descrintration, D=Deplete Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Epi A3 - Black Histic Epi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 5/2 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface ark Surface ucky Mineral	eeded to do atrix, CS=Cor	% 100 45 54 65 H 30 S S S S S S S S S S S S S S S S S S	Color (I Color (I Hue_5YR Hue_5YR Hue_5YR Cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Locat Moist) 3/3 3/3 3/3 3/3 aot present edox Matrix lucky Mineraleyed Matrix Matrix ark Surface Dark Surface poressions	Mottle Mottle Mottle 2 tt):	e absence of ir	Location M M M C C C C C C C C C C C C C C C C	SIC SIC SC SCL SC SCL SC SC SC	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material r Shallow Dark S	: Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72.	773)
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-11 11-20 11-20 NRCS Hydi	No wetland iption (Description, D=Deploymentation,	hydrology indicators ibe to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 4/1 5/2 4/1 Indicators (characters (characters (characters)) ibedon stic n Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface ucky Mineral fucky Peat or Peat (LR) ck year or Peat (LR)	eeded to dd atrix, CS=Cor	% 100 45 54 65 H 30 S S S S S S S S S S S S S S S S S S	Color (I Color (I Hue_5YR Hue_5YR Hue_5YR Cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Locat Moist) 3/3 3/3 3/3 3/3 aot present edox Matrix lucky Mineraleyed Matrix Matrix ark Surface Dark Surface poressions	Mottle Mottle Mottle 2 tt):	e absence of ir	Location M M M C C C C C C C C C C C C C C C C	Indicators of hardinators of hardina	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material r Shallow Dark S ain in Remarks)	: Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72.	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-11 5-11 11-20 11-20 NRCS Hydi	Hue 10YR Hue 2.5Y Hue 10YR Hue 2.5Y Hue 10YR Hue	hydrology indicators ibe to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 4/1 5/2 4/1 Indicators (characters (characters (characters)) ibedon stic n Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface ucky Mineral fucky Peat or Peat (LR) ck year or Peat (LR)	eeded to dd atrix, CS=Cor	% 100 45 54 65 H 30 S S S S S S S S S S S S S S S S S S	Color (I Color (I Hue_5YR Hue_5YR Hue_5YR Cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Locat Moist) 3/3 3/3 3/3 3/3 aot present edox Matrix lucky Mineraleyed Matrix Matrix ark Surface Dark Surface poressions	Mottle Mottle Mottle 2 tt):	e absence of ir	Location M M M C C C C C C C C C C C C C C C C	Indicators of hardinators of hardina	fluck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material r Shallow Dark S ain in Remarks)	: Soils ¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 1) Sturface	
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-11 5-11 11-20 11-20 NRCS Hydi	No wetland ription (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type:	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 5/2 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ck (LRR FGH) du Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to do atrix, CS=Cor	% 100 45 54 65 H 30 S S S S S S S S S S S S S S S S S S	Color (I Hue_5YR Hue_2.5YR Hue_5YR Cators are r S5 - Sandy Ri S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	Moist) 3/3 3/3 3/3 3/3 3/3 aot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions ains Depres	Mottle Mottle Mottle 2 tt):	e absence of ir	Location M M M C C C C C C C C C C C C C C C C	Indicators of hunless disturbed	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material r Shallow Dark S ain in Remarks)	: Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 1) Furface	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-11 11-20 11-20 NRCS Hydi	No wetland ription (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type:	hydrology indicato hydrology indicato libe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 5/2 4/1 Indicators (ch lipedon stic n Sulfide l Layers (LRR F) ck (LRR FGH) dd Below Dark Surface lucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to do atrix, CS=Cor	% 100 45 54 65 H 30 S S S S S S S S S S S S S S S S S S	Color (I Hue_5YR Hue_2.5YR Hue_5YR Cators are r S5 - Sandy Ri S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	Moist) 3/3 3/3 3/3 3/3 3/3 aot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions ains Depres	Mottle Mottle Mottle 2 tt):	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M C C C C C C C C C C C C C C C C	Indicators of hunless disturbed	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material r Shallow Dark S ain in Remarks)	: Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 1) Furface	

WETLAND DETERMINATION DATA FORM Great Plains Region

Source John Source Service S	Project/Site:	L3R				Sample Point: u-150n41w2-a1
Tree Stratum (Plot size. 30 f. radius)						
Secretary Secr			non-native	species.)		
1.	Tree Stratum (Plot size: 30 ft. radius)				
Number of Dominant Species that are OBL_FACV, or FACL_0_0_(A)		Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
3.						
Total Number of Dominant Spotes Across All Strates						Number of Dominant Species that are OBL, FACW, or FAC:(A)
Percent of Dominant Species Trial Ase OBL, FACW, or FAC N/A (A/B)	3.					
Percent Commant Species That Are DBL, FACW, or FAC. N/A (A/B)	4.					Total Number of Dominant Species Across All Strata: 0 (B)
Prevalence Index Worksheet	5.					
Prevalence Index Worksheet	6.					Percent of Dominant Species That Are OBL, FACW, or FAC: N/A (A/B)
10	7.					
Total Cover = O	8.					Prevalence Index Worksheet
Total Cover = O	9.					Total % Cover of: Multiply by:
FacCord spp.						
Sapling/Shrub Stratum (Plot size: 15 ft. radius)			0			FACW spp 0 x 2 = 0
SaplingShrub Stratum (Plot size: 15 ft. radius)				_		FAC spp. 0 x 3 = 0
1.	Sanling/Shrub 9	Stratum (Plot size: 15 ft radius)				EACH end o v 4 = 0
Total 2		Stratum (Flot size. 13 it. radius)				IIPI spn 2 X 5 = 10
Total 2						о. 2 орр. <u>10</u>
### Prevalence Index = BIA =						Total 2 (A) 10 (P)
Prevalence Index = BIA =						10(a) <u>(M)</u> (B)
Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is > 50% Dominance Test is > 50% Prevalence Index is ≤ 3.0 * Morphological Adaptations (Explain) * Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) * Probl						Durative Inter DA
Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is > 50%						Prevalence Index = B/A = 5.000
Bert Hydrophytic Vegetation Indicators: Sapid Test for Hydrophytic Vegetation Dominance Test is > 50% Prevalence Index is \$ 3.0 " Herb Stratum (Plot size: 5 ft. radius) Problem Hydrophytic Vegetation (Explain) * 1.		_				
Rapid Test for Hydrophytic Vegetation Dominance Test is > 50%						
Dominance Test is > 50% Prevalence Index is ≤ 3.0 * Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) * Problem Hydrophytic Vegetation (Explain) * Problem Hydrophytic Vegetation Strata: Problem Hydrophytic Vegetation Strata:						Hydrophytic Vegetation Indicators:
Prevalence Index is ≤ 3.0 * Morphological Adaptations (Explain) * Morphological Adaptations (Explain) * Problement (Explain) * Probleme						Rapid Test for Hydrophytic Vegetation
Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *	10.					Dominance Test is > 50%
Herb Stratum (Plot size: 5 ft, radius)		Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
1. Erucastrum gallicum 2						Morphological Adaptations (Explain) *
2.	Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
Definitions of Vegetation Strata: Definitions of Vegetation Strata:	1.	Erucastrum gallicum	2	N	NI	
Definitions of Vegetation Strata:	2.					
Definitions of Vegetation Strata:	3.					present, unless disturbed or problematic.
Tree - Woody plants 3 in, (7.6cm) or more in diameter at breast height (DBH), regardless of height.	4.					Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 8.					_	
7. height (DBH), regardless of height. 8. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. 10. Herb - All herbaceous (non-woody) plants, regardless of size. 13. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height. Total Cover =2 Woody Vines Stratum (Plot size: 30 ft. radius) 1. Z. Hydrophytic Vegetation Present? N Remarks: The upland point has very little vegetation due to tillage.						Tree - Woody plants 3 in (7.6cm) or more in diameter at breast
8. 9. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. 10. Herb - All herbaceous (non-woody) plants, regardless of size. 13. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height. Woody Vines - All woody vines, regardless of height. ### Woody Vines - All woody vines, regardless of height. ###################################						height (DBH), regardless of height.
9. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. 10. Herb - 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. Woody Vines - All woody vines, regardless of height. Woody Vines - All woody vines, regardless of height. Woody Vines - All woody vines, regardless of height. Hydrophytic Vegetation Present? N N					-	
10.					_	Sapling/Shruh - Woody plants less than 3 in. DBH, regardless of height.
11. 12. 13. 14. 15. Woody Vines - All woody vines, regardless of size. Woody Vines - All woody vines, regardless of height. Total Cover = 2 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. Hydrophytic Vegetation Present? N Fotal Cover = 0 Remarks: The upland point has very little vegetation due to tillage.					-	Supring Gill ab
12.						
13. 14. 15. Woody Vines - All woody vines, regardless of height. Total Cover =2 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 4. Total Cover =0 Hydrophytic Vegetation Present?N Total Cover =0 Remarks: The upland point has very little vegetation due to tillage.						Horb - All herbaceous (non-woody) plants, regardless of size
14.					_	THE D = 7 m. ISTUDOCOUG (ITOM WOOD) / PIGITIO, TEGRIFICES OF SIZE.
Total Cover = Woody Vines - All woody vines, regardless of height.					_	
Total Cover =						Manda Mana All woody vinos regardless of beight
Woody Vine Stratum (Plot size: 30 ft. radius) 1.	15.					woody vines - All woody vines, regardless of neight.
1.		Total Cover =	2	_		
1.						
2. 3. Hydrophytic Vegetation Present? N 5. 4. Total Cover = 0 Remarks: The upland point has very little vegetation due to tillage.		ratum (Plot size: 30 ft. radius)				
3. Hydrophytic Vegetation Present? N 5. 4. Total Cover = 0 Remarks: The upland point has very little vegetation due to tillage.						
5. 4. Total Cover = 0 Remarks: The upland point has very little vegetation due to tillage.	2.					
5. 4. Total Cover = 0 Remarks: The upland point has very little vegetation due to tillage.	3.					Hydrophytic Vegetation Present? N
Total Cover = 0 Remarks: The upland point has very little vegetation due to tillage.	5.					
Total Cover = 0 Remarks: The upland point has very little vegetation due to tillage.	4.					
Remarks: The upland point has very little vegetation due to tillage.		Total Cover =	0			
	Remarks:					
Additional Remarks:		, a special conjunction and				
Additional Remarks:						
AUGILIONAL REMAIRS.	Additional D	Jamarka.				
	Additional R	temarks:				