## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14	_
Applicant:		Enbridge								County:	Red Lake	_
Investigators	:	NTT/BEH			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN	•
Soil Unit:	159A			_	NWI	l Classification	:				•	
Landform:	Rise			L	ocal Relief:					Sample Point	: u-152n42w31-a	1
Slope (%):	3 - 7%		Latitude: 47		Longitude:		777	Datum:				
		nditions on the site						⊡Yes	□No	Section:		
Are Vegetation	, ,	or Hydrology					normal circur					
						Alc	✓ Yes	Instances pre □No	esent:	Township:	D':	
Are Vegetation		☐ or Hydrology	Liturally p	robiematic?			⊡ res	Пио		Range:	Dir:	
SUMMARY C												
Hydrophytic '			No		_				ls Present?			
Wetland Hyd			No						mpling Poin	it Within A W	etland? <b>No</b>	
Remarks:	The upland	point is located on	n a rise in a	farmed soybe	an field witl	h a mix o	of weedy plants	<b>3.</b>				
HYDROLOG	Υ											
			the et en en le u	Minimum								
		icators (Check all	tnat apply;	Minimum of C	ne primary	or two se	econdary requi	irea):	Secondary:			
<u>Primary</u>			E 844 0 40 4							2-11-01		
	A1 - Surface				B11 - Salt					B6 - Surface S		f
	A2 - High Wa A3 - Saturation				B13 - Aqua C1 - Hydro					B10 - Sparsely	Vegetated Concave S	surrace
1 5	B1 - Water M				C1 - Hydro						Rhizospheres on Livir	na Roots (tilled)
1 5	B2 - Sedimen						spheres on Living	Roots (not till		C8 - Crayfish		ig rtooto (tilled)
I =	B3 - Drift Dep				C4 - Prese			(			n Visible on Aerial Ima	agery
	B4 - Algal Ma									D2 - Geomorp	hic Position	0 ,
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu		
		n Visible on Aerial Im	nagery							D7 - Frost-He	aved Hummocks (LRF	RF)
	B9 - Water-St	ained Leaves										
Field Obser	vations:											
Surface Wat	er Present?	Yes 🔲	Dei	oth:	(in.)							
Water Table		Yes 🗆	Dei	oth:	(in.)			Wetland H	lydrology l	Present?	N	
Saturation Pr		Yes 🗆			(in.)						_	
Describe Rec		stream gauge, moni			revious insp	ections),	if available:					
Describe Reco		stream gauge, moni hydrology indicato			revious insp	pections),	if available:					
					revious insp	pections),	if available:					
					revious insp	pections),	if available:					
Remarks:  SOILS Profile Descri	No wetland	hydrology indicato	ors are pres	ent.	licator or co	onfirm the	e absence of in					
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Remarks:  SOILS Profile Descri	No wetland	hydrology indicato	ors are pres	ent.	licator or co	onfirm the	e absence of ir ore Lining, M=Mat					
Remarks: SOILS Profile Descri	No wetland	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix	eeded to doo atrix, CS=Cove	cument the inc	licator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No wetland	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doo atrix, CS=Cove	cument the incored/Coated Sand	licator or co	onfirm the	e absence of ir ore Lining, M=Mat		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14	No wetland iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1	eeded to doo atrix, CS=Cove	cument the incored/Coated Sand	dicator or co	onfirm the	e absence of ir ore Lining, M=Mat es Type	Location	SICL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-24	No wetland iption (Descriptration, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  5/3	eeded to doo atrix, CS=Cove	cument the incored/Coated Sand Color	dicator or cc Grains; Loca (Moist)	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mat es Type	Location M	SICL LS		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-24 14-24	No wetland iption (Descrintration, D=Depi Hue_10YR Hue_10YR Hue_2.5YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  5/3  3/2	eeded to doo atrix, CS=Cove	cument the incred/Coated Sand Color	(Moist)	Mottle %	e absence of ir ore Lining, M=Mat es Type	Location M	SICL LS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-24 14-24	No wetland iption (Descrintration, D=Depi Hue_10YR Hue_10YR Hue_2.5YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  5/3  3/2	eeded to doo atrix, CS=Cove	cument the incored/Coated Sand Color	(Moist)	Mottle %	e absence of ir	Location M	SICL LS C	for Droblomet		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-24 14-24  NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_2.5YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  5/3  3/2	eeded to doo atrix, CS=Cove	coment the incred/Coated Sand  Color  Color  Hue_7.5Y  Hue_5YF	dicator or co	Mottle %	e absence of ir	Location M M	SICL LS C	for Problemati		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-24 14-24  NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_2.5YR ic Soil Field	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  5/3  3/2  Indicators (ch	eeded to doo atrix, CS=Cove	cument the incored/Coated Sand Color Color Hue_7.5Y Hue_5YF	dicator or co	Mottle %	e absence of ir	Location M M	SICL LS C	luck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-24 14-24  NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_2.5YR  ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist) 2/1 5/3 3/2 Indicators (ch	eeded to doo atrix, CS=Cove	cont.  cument the incored/Coated Sand  Color  Color	(Moist)  R 3/4 4/6  not presen  Redox d Matrix	Mottle %  5 10 tt):	e absence of ir	Location M M	SICL LS C Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-24 14-24  NRCS Hydr	No wetland iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_2.5YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicato be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  5/3  3/2  Indicators (ch	eeded to doo atrix, CS=Cove	cont.  cument the incored/Coated Sand  Color  Color	(Moist)  R 3/4 4/6  not presen  Redox d Matrix Mucky Miner.	monfirm the tion: PL=Po  Mottle  %  5  10  tt):	e absence of ir	Location M M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)	72)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-24 14-24  NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_2.5YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicato be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  5/3  3/2  Indicators (ch  ipedon stic n Sulfide	eeded to doo atrix, CS=Cove	cont.  cument the incred/Coated Sand  Color	(Moist)  R 3/4 2 4/6  not presen  Redox d Mucky Miner Gleyed Matrix	monfirm the tion: PL=Po  Mottle  %  5  10  tt):	e absence of ir	Location M M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils <sup>1</sup> (LRR F, G, H)	73)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-14 14-24 14-24  NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5YR  Tic Soil Field  A1- Histosol A2 - Histic Ep A3 - Histic Ep 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	hydrology indicato be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  5/3  3/2  Indicators (ch  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRi cky Peat or Peat (LRi cky Peat or Peat (LRi	eeded to doo atrix, CS=Cover 9 110 5 3 aneck here if	cont.  cument the incored/Coated Sand  Color  Color	(Moist)  R 3/4 2 4/6  not presen  Redox d Matrix Mucky Miner. Gleyed Matrix Dark Surface ad Dark Surface Dark Surface Dark Surface Dark Surface Dark Surface	Mottle %  5 10 tt):	e absence of ir ore Lining, M=Mat es Type C C	Location  M M	Indicators of Management of State of St	luck (LRR I, J) Prairie Redox urface (LRR G; Plains Depressi ted Vertic Parent Material Shallow Dark Sain in Remarks	c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72,	

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-152n42w31-a1
VEGETATIO		non-native	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: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 0 x 2 = 0
	-		_		FAC spp. 0 x 3 = 0
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 40 x 4 = 160
1.	Stratum (Flot 6)22. To it. radias)				UPL spp. 15
2.					
3.					Total 55 (A) 235 (B)
4.					Total <u>55</u> (A) <u>235</u> (B)
5.					Prevalence Index = B/A = 4.273
					Prevalence Index = B/A = 4.273
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Chenopodium album	30	Υ	FACU	
2.	Glycine max	15	Υ	NI	* Indicators of hydric soil and wetland hydrology must be
3.	Artemisia biennis	10	N	FACU	present, unless disturbed or problematic.
4.					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 =	55			
	Total Cover -	JJ	_		
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1.	ratum (1 101 SIZE. 30 II. TaulūS)				
2.				_	
3.					Hydrophytic Veretation Present?
				_	Hydrophytic Vegetation Present? N
5.					
4.	T			_	
_	Total Cover =	0			
Remarks:	The vegetation throughout the upland consist	s of plante	ed soybea	ns and lar	nb's quarters.
Additional R	Remarks:				
]					