WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/14/14		
Applicant:		Enbridge								County:	Red Lake		
Investigators	3.	NTT/BEH			Subregio	n (MI RA	or LRR)	MLRA 56		State:	MN		
Soil Unit:	I59A	ITTIOLIT	l .	Subregion (MLRA or LRR): MLRA 56 NWI Classification:						Otato.			
					! D-!:-f:		Ciassilication.				45444044		
Landform:	Rise				cal Relief:					Sample Point	u-151n41w34-e1		
Slope (%):	3 - 7%		Latitude: 47.		Longitude:			Datum:					
Are climatic/	hydrologic co	nditions on the site	e typical for	this time of ye	ar? (If no, exp	olain in rema	arks)	 Yes	□ No	Section:			
Are Vegetati	ion 🗵 Soi	I ☑ or Hydrology	□anifican	tly disturbed?		Are	normal circun	nstances pr	esent?	Township:			
Are Vegetati		or Hydrology						□No		Range:	Dir:		
			Laturally p	iobiematic:			<u> </u>	<u> </u>		Range.	DII.		
SUMMARY (
Hydrophytic	Vegetation P	resent?	No					Hydric Soi	Is Present?	? No			
Wetland Hvo	drology Prese	ent?	No		_			Is This Sa	mplina Poir	nt Within A W	etland? No		
Remarks:				nlanted winter	wheat field	No vec	netation is nres				nted wheat and garden yellow		
rtcinarto.	rocket.	point is located on	ranse in a	Sidifica William	Wilcat ficie	1. 140 VC	getation is pres	chi unough	out the are	a besides pla	nted wheat and garden yellow		
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check all	that apply:	Minimum of or	o primary	or two co	ocondory roqui	rod):					
		icators (Crieck all	ι ιιαι αρριу,	viii iii iiu iii oi oi	e pililary	OI TWO SE	econdary requi	ieu).	0				
Primary		141-1			D44 0-11	O 1			Secondary) - "I O I -		
	A1 - Surface Water				B11 - Salt					B6 - Surface S			
	A2 - High Wa									B8 - Sparsely Vegetated Concave Surface			
	A3 - Saturation				C1 - Hydro					B10 - Drainage Patterns			
	B1 - Water M										C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimer						pheres on Living	Roots (not till		C8 - Crayfish I			
	B3 - Drift Dep										n Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp			
	B5 - Iron Dep	osits			Other (Exp	lain)				D5 - FAC-Neu			
	B7 - Inundation	on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	B9 - Water-S	tained Leaves											
Field Obser	vations:												
			_		(:)								
	ter Present?	_		th:	(in.)			Wetland F	Hydrology	Present?	N		
Water Table	Present?	Yes \square	Dep	th:	(in.)			· · · · · · · · · · · · · · · · · · ·	.yu.o.ogy				
Saturation P	resent?	Yes \square			(in.)								
Saturation Present? Yes Depth: (in.)													
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec				erial photos, pr	evious insp	ections),	if available:						
Describe Red Remarks:		stream gauge, moni hydrology indicato		erial photos, pr	evious insp	ections),	if available:						
				erial photos, pr	evious insp	ections),	if available:						
Remarks:				erial photos, pr	evious insp	ections),	if available:						
Remarks:	No wetland	hydrology indicato	ors present.		·			adicators)					
Remarks: SOILS Profile Descr	No wetland	hydrology indicato	ors present.	ument the indi	cator or co	onfirm the	e absence of ir						
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Remarks: SOILS Profile Descr	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma	ors present.	ument the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr						
Remarks: SOILS Profile Descr	No wetland	hydrology indicato	eeded to doo atrix, CS=Cove	eument the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr						
Remarks: SOILS Profile Descr	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma	ors present.	eument the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks		
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-9 9-14	No wetland ription (Descrentration, D=Depi	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eeded to doc atrix, CS=Cove	cument the indired/Coated Sand Color (cator or co	onfirm the	e absence of ir ore Lining, M=Matr	ix)	SCL SC	pebbles present	Remarks		
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-9 9-14 9-14 14-21 NRCS Hydi	Hue 10YR Hue 10YR Hue 10YR Hue 2.5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 2/1 5/3 Indicators (ch	eeded to docatrix, CS=Cove %	cument the indired/Coated Sand Color (Color (cator or co Grains; Loca Moist) 6/8 6/8 not presen edox Matrix Mutrix Mutrix Minera Bleyed Matrix	Mottle % 1 tt):	e absence of ir ore Lining, M=Matr es Type	Location M	Indicators A9 - 1 cm M A16 - Coasis S7 - Dark S F16 - High I F18 - Reduce	for Problematii Muck (LRR I, J) t Prairie Redox i Burface (LRR G) Plains Depressio	c <u>Soils¹</u> (LRR F, G, H)		
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-9 9-14 9-14 14-21 NRCS Hydi	Hue 10YR Hue 2.5Y	hydrology indicators ibe to the depth neetion, RM=Reduced Marix Color (Moist) 2/1 4/2 2/1 5/3 Indicators (charical and a color of the color of	eeded to docatrix, CS=Cove % 10 7: 2: 9: eeck here if i	ument the indired/Coated Sand Color (cator or co Grains; Locar Moist) 6/8 6/8 not presen edox Mucky Minera Mucky Minera Bleyed Matrix Mucky Minera Surface I Matrix ark Surface I Dark Surface I Dark Surface	Mottle % It is a second to the content of the cont	e absence of ir ore Lining, M=Matr es Type	Location M	Indicators A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Redur TF12 - Very Other (Explant)	for Problemation Juck (LRR I, J) The Prairie Redox is urface (LRR G) Plains Depression Ced Vertic Parent Material The Shallow Dark S Ain in Remarks)	C Soils¹ (LRR F, G, H) DIS (LRR H, outside MLRA 72, 73) Surface		
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-9 9-14 9-14 14-21 NRCS Hydi	Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratific A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy G S3 - 5 cm Mu S4 - Sandy G	hydrology indicato hydrology indicato libe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 2/1 5/3 Indicators (ch sipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) dd Below Dark Surface lucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to docatrix, CS=Cove % 10 7: 2: 9: eeck here if i	ument the indired/Coated Sand Color (cator or co Grains; Loca: Moist) 6/8 6/8 edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	Mottle % It is a second to the content of the cont	e absence of ir ore Lining, M=Matr es Type C	Location M	Indicators : A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I TF2 - Red F TF12 - Very Other (Explanting of unless disturb	for Problemation Juck (LRR I, J) The Prairie Redox is urface (LRR G) Plains Depression Ced Vertic Parent Material The Shallow Dark S Ain in Remarks)	C Soils¹ (LRR F, G, H) DIS (LRR H, outside MLRA 72, 73) Surface		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n41w34-e1				
VEGETATIO	N (Species identified in all uppercase are	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:(A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 2 (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				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)		FACU spp. 25 x 4 = 100						
1.					UPL spp. 60 x 5 = 300				
2.					···				
3.					Total 85 (A) 400 (B)				
4.					·				
5.					Prevalence Index = B/A = 4.706				
6.									
7.									
8.	_				Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
10.	_ Total Cover =	0							
	Total Cover –	U	_		Prevalence Index is ≤ 3.0 *				
Lie de Otrada de d	District F (Leading)				Morphological Adaptations (Explain) *				
1.	Plot size: 5 ft. radius) Triticum aestivum	00	V	NI	Problem Hydrophytic Vegetation (Explain) *				
2.		60 25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
	Barbarea vulgaris	25	T	FACU	present, unless disturbed or problematic.				
3.									
4.				_	Definitions of Vegetation Strata:				
5.				_	T				
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.					neight (DDH), regardless of height.				
8.				_	Delta de la Manda de la Circ DDU accordance de sinde				
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 =	85	_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.		-			Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =	0							
Remarks:	The upland vegetation consists of planted win	nter wheat	and garde	en yellow	rocket.				
	-		-	-					
Additional R	Remarks:								
Additional N	ionand.								