## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/01/14										
Applicant:		Enbridge								County:	Kittson										
Investigators	3:	BEH/BCS			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN										
Soil Unit:	I134A			NWI Classification:																	
Landform:	Talf				Local Relief:	: LL				Sample Point:	u-160n49w31-a1										
Slope (%):	0 - 2%		Latitude: 48	3.64578683		-97.0394	1686667	Datum:	•												
		nditions on the site						□Yes	☑ No	Section:											
		or Hydrology					normal circun			1											
Are Vegetati				ntly disturbed		Ale		•	esent?	Township:											
Are Vegetati		☐ or Hydrology	<b>∟</b> aturally	problematic			Yes	□No		Range:	Dir:										
SUMMARY (	OF FINDING:	S																			
Hydrophytic	Vegetation P	resent?	No	)				Hydric Soi	Is Present?	No											
Wetland Hvo	drology Prese	ent?	No	)	_			Is This Sa	mplina Poin	t Within A W	etland? <b>No</b>										
Remarks:			cated upslo	ope from a ro	adside ditch	in a field r	planted with a														
Remarks: The upland sample point is located upslope from a roadside ditch in a field planted with annual sunflower. The area has had large amounts of precipitation in recent weeks.																					
LIVEROLOG		101																			
HYDROLOG	Υ																				
Wetland Hy	drology Ind	icators (Check all	I that apply;	; Minimum of	one primary	or two see	condary requi	red):													
Primary	<u>r.</u>								Secondary:												
	A1 - Surface	Water			□ B11 - Salt	Crust				B6 - Surface S	Soil Cracks										
A2 - High Water Table					■ B13 - Aqua					B8 - Sparsely Vegetated Concave Surface											
	A3 - Saturation			C1 - Hydrogen Sulfide Odor						B10 - Drainage Patterns											
	B1 - Water M				C2 - Dry S			5			Rhizospheres on Living Roots (tilled										
	B2 - Sedimer						pheres on Living	Roots (not til		C8 - Crayfish I											
	B3 - Drift Dep B4 - Algal Ma				☐ C4 - Prese☐ C7 - Thin N	ence of Red				D2 - Geomorp	1 Visible on Aerial Imagery										
l H	B5 - Iron Dep				Other (Exp		ce			D5 - FAC-Neu											
1 5		on Visible on Aerial Im	nagery		□ Other (Lxp	Diairi)					aved Hummocks (LRR F)										
	B9 - Water-S		lagel y						_	D7 - 11031-1108	avea Hammocks (ERRY)										
_																					
Field Obser	votional																				
Field Obser																					
	ter Present?	_		epth:				Wetland F	lydrology l	Present?	N										
Water Table		Yes $\square$	De	epth:	(in.)			· · · · · · · · · · · · · · · · · · ·	.yu.o.ogy .		_ <u></u>										
Saturation Present? Yes Depth: (in.)																					
Saturation		163		.pui.	(****)						Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
				· <del></del>	` `	nections) i	if available:														
Describe Rec	corded Data (	stream gauge, moni	itoring well,	aerial photos	previous insp	pections), i	if available:														
	corded Data (		itoring well,	aerial photos	previous insp	pections), i	if available:														
Describe Rec Remarks:	corded Data (	stream gauge, moni	itoring well,	aerial photos	previous insp	pections), i	if available:														
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Describe Rec Remarks:  SOILS Profile Descr (Type: C=Conce	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne etion, RM=Reduced Mi  Matrix  Color (Moist)  2/1  Indicators (chairpedon stic no Sulfide I Layers (LRR F) ck (LRR FGH) and Below Dark Surface ucky Mineral (lucky Peat or Peat (LR) Leyed Matrix	eeded to do atrix, CS=Cov	aerial photos dicators were cument the i rered/Coated Sa % Colc 00  f indicators a  \$ 5 - Sanc \$ 6 - Strip \$ F1 - Loan \$ F2 - Loan \$ F3 - Depl \$ F6 - Redc \$ F7 - Depl \$ F8 - Redc \$ F16 - High	previous insp observed.  Indicator or co and Grains; Loca  or (Moist)  The not present by Redox by Redox by Mucky Miner by Mucky Miner by Gleyed Matrix by Dark Surface by Carlot Su	Mottles  Mottles  Mottles  Mottles  Mottles  Mottles	e absence of ir re Lining, M=Matr ss Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S0 F16 - High F F16 - High F TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S ain in Remarks)	E Soils <sup>1</sup> URR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)  Surface										
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n49w31-a1					
VEGETATION		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.										
10.		0			OBL spp. 0 x 1 = 0					
	Total Cover =	0	_		FACW spp. 0 x 2 = 0					
					FAC spp. $0   x   3 = 0$					
	Stratum (Plot size: 15 ft. radius)				FACU spp. 65 x 4 = 260					
1.					UPL spp. $0   x   5 = 0$					
2.										
3.					Total 65 (A) 260 (B)					
4.										
5.					Prevalence Index = B/A = 4.000					
6.										
7.	-									
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.										
10.	T-t-LO				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.	Helianthus annuus	50	Y	FACU						
2.	Malva neglecta	30	Y		* Indicators of hydric soil and wetland hydrology must be					
3.	Amaranthus retroflexus	5	N	FACU	present, unless disturbed or problematic.					
4.	Thlaspi arvense	5	N	FACU	Definitions of Vegetation Strata:					
5.	Ambrosia psilostachya	5	N	FACU						
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.					FIGID					
				_						
14.					Manda Vinna All woody vinon regardless of height					
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	95	_							
Woody Vine Str	ratum (Plot size: 30 ft. radius)									
1.										
2.			-							
3.					Hydrophytic Vegetation Present? N					
5.					, , , , , <u></u>					
4.										
	Total Cover =	0		_						
Remarks: The field is dominated by annual sunflower and common mallow. Scattered between the crop rows is an assortment of agricultural weeds.										
remarks.	The held is dominated by annual surmower a	na comme	ii iiialiow.	Ocalicico	between the Grop rows is an assortment of agricultural weeds.					
Additional Remarks:										
1										