WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/20/14
Applicant:		Enbridge									County:	Marshall
Investigators:	:	BEH/RAJ				Subregion	า (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I23A						NWI	Classification:				
Landform:	Talf				Loc	cal Relief:					Sample Point:	u-157n47w16-i1
Slope (%):	3 - 7%		Latitude: 48			Longitude:			Datum:			
Are climatic/h	nydrologic co	nditions on the site	e typical fo	r this	s time of yea	r? (If no, exp	lain in rema	arks)	Yes	□ No	Section:	
Are Vegetation		□, or Hydrology	•	•			Are	e normal circum	nstances pre	esent?	Township:	
Are Vegetation	on 🛭 Soil	□, or Hydrology	□aturally	prob	lematic?			Yes	□ No		Range:	Dir:
SUMMARY O	F FINDINGS											
Hydrophytic \	/egetation Pr	esent?	No)					Hydric Soil	s Present?	No	
Wetland Hyd	rology Prese	nt?	No)					Is This Sar	npling Poir	nt Within A W ϵ	etland? No
Remarks:	The upland	sample point is lo	cated on th	ne ed	lge of a whe	at field, ac	djacent to	o a Shrub-Carr	community			
Remarks: The upland sample point is located on the edge of a wheat field, adjacent to a Shrub-Carr community.												
HYDROLOGY												
Wetland Hy	drology Indi	cators (Check all	that apply	· Min	imum of one	nrimary o	or two se	econdary requir	ed)•			
Primary:	•	Cators (Officer all	triat apply	, 171111		b primary v	or two se	scoridary requir	eu).	Secondary:		
<u> </u>	<u>-</u>					B11 - Salt 0	Crust				B6 - Surface So	oil Cracks
						B13 - Aqua	tic Fauna				B8 - Sparsely \	/egetated Concave Surface
	A3 - Saturation					C1 - Hydro					B10 - Drainage	
	B1 - Water Ma					C2 - Dry Se			Daata (aat till			Rhizospheres on Living Roots (tilled)
	B2 - Sediment	•						spheres on Living	Roots (not till		C8 - Crayfish B	urrows Visible on Aerial Imagery
	'										D2 - Geomorph	
	B5 - Iron Depo					Other (Expl				_	D5 - FAC-Neut	
	B7 - Inundatio	n Visible on Aerial Im	nagery			` '	,				D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
_												
Field Observ												
Surface Wate	er Present?	Yes	De	epth: _		(in.)			Wetland H	lydrology	Present?	N
Water Table		Yes □	D€	epth: _		(in.)			Wetland I	iyai ology	i resent i	<u></u>
Saturation Pr	esent?	Yes □	De	epth:		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	tream gauge, moni	itoring well,		al photos, pre		ections),	if available:				
Describe Reco	•	tream gauge, moni		aeria		vious insp	ections),	if available:				
	•			aeria		vious insp	ections),	if available:				
	•			aeria		vious insp	ections),	if available:				
Remarks: SOILS Profile Descri	No primary of the pri	or secondary hydro	rological inde	aeria	ors were obs	evious insposerved.	nfirm the	e absence of in				
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Remarks: SOILS Profile Descri	No primary of the pri	or secondary hydro be to the depth ne etion, RM=Reduced Ma	rological inde	aeria	ors were obs	evious insposerved.	nfirm the	e absence of in ore Lining, M=Matri				
Remarks: SOILS Profile Descri (Type: C=Concen	No primary of the pri	be to the depth ne etion, RM=Reduced Ma	eeded to do	aeria dicate	ors were obs	served. cator or co	nfirm the	e absence of in ore Lining, M=Matri	ix)			
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-18	No primary of the prion (Description, Depletment of the primary of the prior of the	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eeded to do atrix, CS=Cov	aeria dicate cum vered/ %	ent the indic	evious insposerved. Cator or costrains; Locat Moist)	infirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matri es Type	Location	L	vertical streaking	Remarks
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-157n47w16-i1
VEGETATION	(Species identified in all uppercase are	e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	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
	Total Cover =	0			FACW spp. 22 $\times 2 = 44$
0 11 (0) 1 (2				FAC spp. 5 x 3 = 15
	Stratum (Plot size: 15 ft. radius)		N.I.	E A C \ A /	FACU spp. 85 x 4 = 340
1.	Salix interior	2	N	FACW	UPL spp. 30 $x = 5$ 150
2.					T-1-1 (A) (A) (D)
3.					Total 142 (A) 549 (B)
4.					Describer de la desc. D/A
5.					Prevalence Index = B/A = 3.866
6.					
7.					Undrankutia Vagatatian Indicatora
8.					Hydrophytic Vegetation Indicators:
9. 10.					Rapid Test for Hydrophytic Vegetation
10.	 Total Cover =	2			Dominance Test is > 50%
	Total Cover =	2	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)		Υ	FACIL	Problem Hydrophytic Vegetation (Explain) *
1.	Melilotus officinalis	55	Y Y	FACU	* Indicators of budric soil and watland budralogy must be
2.	Triticum aestivum	30	<u>'</u>	NI	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Lotus comiculatus	15	N N	FACU	· · · · · · · · · · · · · · · · · · ·
4.	Cirsium arvense	10	N	FACU	Definitions of Vegetation Strata:
5.	Anemone canadensis	10	N	FACW	T****
6	Rudbeckia laciniata	5	N N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.	Solidago canadensis	5	N N	FACU	Holghi (BBH), regardess of Holghi.
8.	Equisetum hyemale	5		FACW	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
9. 10.	Muhlenbergia mexicana	5	N	FACW	Sapinig/Siriub - Woody plants less than o'm. BBH, Tegardless of Height.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					Herb = 741 Herbaccous (Horr woody) plants, regardless of size.
14.					
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cayer	4.40			Woody Villes - All Woody Villes, Tegardiess of Height.
	Total Cover =	140	_		
)	(D) () () () () () () ()				
Woody Vine Sti	ratum (Plot size: 30 ft. radius)				
1.					
2.					Usadronbutio Vocatation Drocont?
3.					Hydrophytic Vegetation Present? N
5.					
4.	Total Cover =	0			
Domorko			votod who	ot.	
Remarks:	The sample site is dominated by sweet clove	and culti	valed whe	al.	
	_				
Additional R	demarks:				