WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	07/02/14	
Applicant:		Enbridge									County:	Kittson	
Investigators	i:	BCS/BEH				Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I132A						NWI	Classification	:				
Landform:	Depression				Loc	al Relief:	CL				Sample Point:	w-159n49w5-a1	
Slope (%):	0 - 2%		Latitude: 48	8.6239	99467	Longitude:	-97.006	7943333	Datum:		i '		
		nditions on the site							⊡Yes	□No	Section:		
Are Vegetation		☐ or Hydrology			disturbed?	ii . (ii iio, cx _k		normal circun					
	on 🖵 Soil	☐ or Hydrology					Aic	✓ Yes	□No	Cociit:	Township:	Dia	
Are Vegetation			Liturally	/ probi	iemauc?			<u> </u>			Range:	Dir:	
SUMMARY C													
Hydrophytic '			Ye	es						Is Present?			
Wetland Hyd	Irology Prese	nt?	Ye	es					Is This Sai	mpling Poir	nt Within A We	etland? Yes	
Remarks:	The wetland	l is a sparsely-veg	etated, sea	asona	ally-flooded	excavate	d ditch v	vithin an agricu	Iltural field t	hat has bee	en planted to s	oybeans. The vegetation	is
	dominated b	by barnyard grass	and narrov	w-leaf	f dock.								
HYDROLOG	Υ												
		cators (Check all	that apply	y; Mini	imum of one	e primary	or two se	econdary requi	red):				
<u>Primary</u>					_					Secondary:			
2	A1 - Surface \					B11 - Salt (B6 - Surface S		
4	A2 - High Wat					B13 - Aqua						/egetated Concave Surface	
	A3 - Saturatio B1 - Water Ma					C1 - Hydro C2 - Dry Se					B10 - Drainage	Rhizospheres on Living Roots ((tilled)
	B2 - Sedimen							pheres on Living	Roots (not till		C8 - Crayfish E		(tilled)
	B3 - Drift Dep					C4 - Prese			rtooto (not tiii			Visible on Aerial Imagery	
	B4 - Algal Mat					C7 - Thin N					D2 - Geomorph		
	B5 - Iron Depo					Other (Exp	lain)			7	D5 - FAC-Neut	ral Test	
	B7 - Inundatio	n Visible on Aerial Im	nagery								D7 - Frost-Hea	ved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves											
Field Obser	vations:												
Surface Wat	er Present?	Yes 🗹	De	epth:	3	(in.)							
Water Table		Yes 🗹		epth:	0	(in.)			Wetland F	lydrology	Present?	Υ	
		_		_	0	. ,						_	
Saturation Pr				epth:		(in.)							
		tream gauge, moni				. ,	ections),	if available:					
	orded Data (s		itoring well,	, aeria	l photos, pre	vious insp	ections),	if available:					
Describe Rec	orded Data (s	tream gauge, moni	itoring well,	, aeria	l photos, pre	vious insp	ections),	if available:					
Describe Reco	orded Data (s	tream gauge, moni	itoring well,	, aeria	l photos, pre	vious insp	ections),	if available:					
Describe Reco	orded Data (s Three inche	tream gauge, moni s of surface water	itoring well, are prese	, aerial	l photos, pre	evious insp point.	·		ndicators.)				
Describe Reco Remarks: SOILS Profile Descri	orded Data (s Three inche	tream gauge, moni	itoring well, are prese	, aerial	Il photos, pre the sample ent the indic	point.	onfirm the	e absence of ir					
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WETLAND DETERMINATION DATA FORM Great Plains Region

Species Marine Post 2026 C. 1 Franks	Project/Site:	L3R				Sample Point: w-159n49w5-a1
Tree Statum						
Tree Statum	VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
1.	Tree Stratum ((Plot size: 30 ft. radius)				
Number of Dominant Species that are OBL, FACW, or FACE 2 (A)		Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
Total Number of Dominant Species That Are OBL, FACW, or FAC 100.0% (A/B)	1.					
Total Number of Dominant Species That Are OBL, FACW, or FAC 100.0% (A/B)	2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across At Strate: 2 (B)	3					
Percent of Dominant Spaces That Are OBL FACW, or FAC 100.0% (A/B)						Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						Total Number of Bolhinant Opecies Across All Ottata.
Prevalence Index Worksheet Total Scores of Mulliply to Total Cover 0						Descent of Deminant Species That Are ORL FACIAL as FAC: 100.09/ (A/D)
Prevalence Index Worksheet Total Score						Percent of Dominant Species That Are OBL, FACW, of FAC. 100.0% (A/B)
10						
Total Cover = O						
Total Cover = 0	9.					
Total Cover = 0	10.					OBL spp. 4 x 1 = 4
FAC spp. 10		Total Cover =	0			FACW spp. 12 x 2 = 24
SapingShrub Stratum (Plot size: 15 ft radius)		•				FAC spp. 10 x 3 = 30
1.	Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 2 x 4 = 8
Total 28 (A) 66 (B)		(UPL spp. 0 x 5 = 0
Total 28 (A) 66 (B)						
Prevalence Index = B/A = 2.357						Total 28 (Δ) 66 (D)
Prevalence Index = B/A =2.357						10tai <u>20 (h) </u>
Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation My Common Part My Common Pa						Duratura Inter DIA
Hydrophytic Vegetation Indicators: Section						Prevalence Index = B/A = 2.357
Berlo Stratum (Plot size: 5ft radius)						
Rapid Test for Hydrophytic Vegetation Total Cover = 0 Total Cover = 0 Herb Stratum (Plot size: 5 ft. radius) 1. Echinochios crus-galii 10 Y FAC 2. Rames stempthyllus 7 Y FACW 3. Veronica presigna 5 N FACW 4. Rospose polaritris 2 N OBL 5. Limosellis aquatice 2 N OBL 6. Elymus repera 2 N FACU 7. Splings (Plot size: 30 ft. radius) 7. FACU 8. Elymus repera 2 N FACU 9. FACU 11. F						
Total Cover = 0	8.					Hydrophytic Vegetation Indicators:
Total Cover =	9.					Rapid Test for Hydrophytic Vegetation
Total Cover = 0	10.					
Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *		Total Cover =	0			
Herb Stratum (Plot size: 5 ft. radius)				_		
1. Echinochiae crus-galli 10 Y FAC 2. Rumex stenophyllus 7 Y FACW 3. Veronica presigna 5 N FACW 4. Rozpea palustris 2 N OBL 5. Limosella aquatica 2 N OBL 6. Echimosella aquatica 2 N OBL 7. I FACU 7. FACU 8. Sapling/Shrub - Woody plants 3 in. (7 6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Sapling/Shrub - Woody vines than 3 in. DBH, regardless of height. Woody Vine Stratum (Plot size: 30 ft. radius) 1.	Horb Ctrotum /	Diet size: Eft redius)				
2. Rumex stenophyllus 7 Y FACW 3. Veronica peregrine 5 N FACW 4. Ronippa palutaris 2 N OBL 5. Limosella aquatica 2 N OBL 6 Elymus repens 2 N FACU 7.			40	V	EAC	Problem hydrophytic vegetation (Explain)
3. Veronica peregrina 5						* Indicators of hydric soil and watland hydrology must be
4. Roinpa palustris 2 N OBL 5. Limosella aquatica 2 N OBL 6 Elmus repens 2 N FACU 7. 8. 9. 11. 11. 12. 13. 14. 15. Total Cover = 28 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2 N OBL Woody Vine Stratum (Plot size: 30 ft. radius) 1. 1. 2 Hydrophytic Vegetation Present? Y Hydrophytic Vegetation Present? Y Total Cover = 0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.					_	
5. Limosella aquatica 2 N OBL 6 Elymus repens 2 N FACU 7.						
6 Elymus repens 2 N FACU 7. Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 8. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height. Total Cover = 28 Woody Vine Stratum (Plot size: 30 ft. radius) 1. Woody Vine Stratum (Plot size: 30 ft. radius) 1. Hydrophytic Vegetation Present? Y Semarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.		Rorippa palustris				Definitions of Vegetation Strata:
7. 8. 9. 10. 11. 12. 13. 14. 15. Total Cover =28 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 1. 2. 4. Total Cover =0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.	5.	Limosella aquatica	2	N		
7. 8. 9. 10. 11. 12. 13. 14. 15. Total Cover =28 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 1. 2. 4. Total Cover =0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.	6	Elymus repens	2	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
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 woody vines, regardless of height. 14. Woody Vines - All woody vines, regardless of height. Woody Vines - All woody vines, regardless of height. 1. Woody Vines Stratum (Plot size: 30 ft. radius) 1. 2.	7.					height (DBH), regardless of height.
10. 11. 12. Herb - All herbaceous (non-woody) plants, regardless of size. 13. 14. 15. Total Cover =28	8.					
10. 11. 12. Herb - All herbaceous (non-woody) plants, regardless of size. 13. 14. 15. Woody Vines - All woody vines, regardless of height. Woody Vines Stratum (Plot size: 30 ft. radius) 1. 2. 3. 4. Total Cover = 0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.	9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
11. 12.						
12.						
13. Woody Vines - All woody vines, regardless of height. Woody Vines - All woody vines, regardless of height. Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. Hydrophytic Vegetation Present? Y 5. Total Cover = 0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.						Horb All herbaceous (non-woody) plants, regardless of size
14. 15. Total Cover =28 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. Hydrophytic Vegetation Present?Y 5. Total Cover =0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.						TIGID
Total Cover =28 Woody Vine Stratum (Plot size: 30 ft. radius) 1.						
Total Cover =28 Woody Vine Stratum (Plot size: 30 ft. radius) 1.						Maria Allanda Allanda de Caralles de Caral
Woody Vine Stratum (Plot size: 30 ft. radius) 1.	15.					Woody Vines - All woody vines, regardless of neight.
1.		Total Cover =	28	_		
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1.	Woody Vine St	ratum (Plot size: 30 ft. radius)				
2. 3. Hydrophytic Vegetation Present? Y 5. Total Cover = 0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.		,				
3. Hydrophytic Vegetation Present? Y 5. 4. Total Cover = 0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.						
5. Total Cover = 0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.						Hydronhytic Vegetation Present?
4. Total Cover = 0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.						Tryanophytio rogotation riesent:
Total Cover = 0 Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.					-	
Remarks: The wetland is dominated by barnyard grass, narrow-leaf dock, and a mix of forbs and graminoids.	4.	T	^			
	D			-6-11		ffeeter and annual add-
Additional Remarks:	Remarks:	The wetland is dominated by barnyard grass	, narrow-le	eat dock, a	ind a mix o	of forbs and graminoids.
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