WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/20/14		
Applicant:		Enbridge									Marshall		
Investigators	:						n (MLRA or LRR): MLRA 56				MN		
Soil Unit:	I16F					NW	I Classification:	:					
Landform: Talf Local Relief: LL Sample Point: u-157n47w16-h1													
Slope (%):	0 - 2%		e: 48.419		Longitude:			Datum:					
		nditions on the site typica			r? (If no, exp	1			□ No	Section:			
Are Vegetation	•		-	disturbed?		Are	e normal circun	-	esent?	Township:			
Are Vegetation			ally prob	olematic?			✓ Yes	□ No		Range:	Dir:		
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? No													
			Yes No		Hydric Soils Pres								
Wetland Hyd				م ملا می	م ماسادامات	Is This Sampling Point Within A Wetland? No							
Remarks: The upland sample point is dominated by smooth brome, on the outskirts of the forest surrounding an oxbow channel. The site is between the woodline and a private two-track road.													
HADBOLOG	•	track road.											
HYDROLOG													
_	• •	icators (Check all that ap	oply; Mir	nimum of one	primary	or two s	econdary requi	red):					
Primary:		Motor			D44 Call	C			Secondary:		il Crooks		
	A1 - Surface \A2 - High Wa				B11 - Salt (B13 - Aqua		1			B6 - Surface So	egetated Concave Surface		
	A3 - Saturation				C1 - Hydro					B10 - Drainage			
	B1 - Water M				C2 - Dry Se	eason Wa	ater Table			C3 - Oxidized R	hizospheres on Living Roots (tilled)		
	B2 - Sedimen	•					spheres on Living	Roots (not till	• 🗆	C8 - Crayfish Bu			
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese C7 - Thin N		educed Iron			D2 - Geomorphi	Visible on Aerial Imagery		
	B5 - Iron Dep				Other (Exp		400		_	D5 - FAC-Neutr			
		n Visible on Aerial Imagery			(,					red Hummocks (LRR F)		
	B9 - Water-St	ained Leaves											
Field Observ													
Surface Wat		Yes	Depth:		(in.)			Wetland H	lydrology	Present?	N		
Water Table		Yes	Depth:		(in.)				,		<u> </u>		
Saturation Present? Yes Depth: (in.)													
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Remarks: No primary or secondary hydrological indicators were observed.													
SOILS	intion (Docori	he to the depth peeded t	o docum	ont the indic	ector or oc	onfirm th	a absonce of in	dicators)					
		be to the depth needed to etion, RM=Reduced Matrix, CS											
(Type: C=Concer	itiation, b-bopi	otion, rim-rioddodd matrix, oo	<u> </u>	Coaloa Cana C			oro Emmig, Wi–Wati	<i>IX</i>)					
		Matrix				Mottles							
Depth (In.)		Color (Moist)	%	Color (N	loist)	%	Type	Location	Texture		Remarks		
0-5	Hue_10YR	2/2	100						L				
5-20	Hue_10YR	2/1	90						С				
5-20	WP	10YR 8/2	10						OT	CaCO3			
NRCS Hvdr	ic Soil Field	Indicators (check he	re if indi	icators are no	ot presen	t):	V						
		(0.100.111			-	-,-			Indicators f	for Problematic	Soils ¹		
	A1- Histosol			S5 - Sandy Re	edox					luck (LRR I, J)			
	A2 - Histic Ep	•	Matrix					Prairie Redox (L	RR F, G, H)				
	A3 - Black His		☐ F1 - Loamy Mucky Mineral ☐ S7 - Dark Surface (LRR G) ☐ F2 - Loamy Gleved Matrix ☐ F16 - High Plains Depressions (LRR H. outside MLRA 73, 72)										
	A4 - Hydroge	Layers (LRR F)	□ F2 - Loamy Gleyed Matrix □ F16 - High Plains Depressions (LRR H, outside MLRA 72, 73) □ F3 - Depleted Matrix □ F18 - Reduced Vertic										
	A9 - 1 cm Muck (LRR FGH)												
	A11 - Depleted Below Dark Surface										ırface		
	□ S4 - Sandy Gleyed Matrix unless disturbed or problematic.												
		leyed Matrix							uniess disturbe	ed or problematic.			
		leyed Matrix							uniess disturbe	ed or problematic.			
	S4 - Sandy G	leyed Matrix		Depth:			Hydric So	il Present?		ed or problematic.			
	S4 - Sandy G	leyed Matrix loam over dark clay with	_	<u> </u>				il Present?	N	ed or problematic.			

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-157n47w16-h1				
		·							
VEGETATIO		re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.	Ulmus americana	20	Y	FAC					
2.	Fraxinus pennsylvanica	10	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC:3(A)				
3.	Acer negundo	5	N	FAC					
4.	Populus deltoides	2	N	FAC	Total Number of Dominant Species Across All Strata:5(B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)				
7.					Description of the Manual and				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	Tatalo				OBL spp. $0 x 1 = 0$ FACW spp. $0 x 2 = 0$				
	Total Cover =	= 37			FACW spp. 0 x 2 = 0				
0 1: (0)	0. (5) (5)				FAC spp. 42 $\times 3 = 126$				
	Stratum (Plot size: 15 ft. radius)		V	ΓΛC	FACU spp. 12				
1.	Acer negundo	5	Y	FAC	UPL spp. $90 X 5 = 450$				
2.	Prunus nigra	2	Υ	FACU	T-1-1 (A) (D)				
3.					Total 144 (A) 624 (B)				
4.					Dravalanas Inday D/A				
5.					Prevalence Index = B/A = 4.333				
6.									
7.					. Ukrduonkritio Vonetetion Indicatore				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.	Total Cavar				XDominance Test is > 50%				
	Total Cover =	:	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)			LIDI	Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	90	Y	UPL	* In diagrams of levelving a sile and weathered by duals and an extension				
2.	Cirsium arvense	10	N	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
3.					·				
4.					Definitions of Vegetation Strata:				
5.									
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.					reight (DBH), regardless of height.				
8.					One the stOb such Woody plants less than 2 in DRH, regardless of height				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.					. All harbassaus (non woods) plants, regardless of size				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.					All was deviced as a file into				
15.		400			Woody Vines - All woody vines, regardless of height.				
	Total Cover =	= 100							
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.					Hadranda Vanada C. B				
3.					Hydrophytic Vegetation Present?Y				
5.				_					
4.	T								
	Total Cover =								
Remarks: The sample point is dominated by smooth brome. The adjacent forest contains American elm, green ash, and box elder. Planted cottonwood and plum lir the two-track road.									
the two track read.									
Additional Remarks:									
L									