WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Carlton ity/County:		Sampling Date:	2015-06-30	
Enbridge Applicant/Owner:			Minnesota	, -	CR163e1U	
ACN	л/LEB		State:	Sampling Point:		
Investigator(s):		Sec	tion, Township, Range:		0.2	
Landform (hillslope, terrace, etc.)	Rise :			Conve convex, none):		
Subregion (LRR or MLRA):		46 Latitude:	5.5963069303 Lo	-92.29519332 ngitude: Dat	Minnesota State um:	
Soil Map Unit Name:					on:	
				_	Yes	
Are climatic/hydrologic condition	,.	•	, , ,	•		
Are Vegetation No No No	_, or Hydrology _	significantly distur	rbed? Are "Normal Circu	umstances" present?		
Are Vegetation No No No No No No	No or Hydrology	_ naturally problemat	ic? (If needed, explain a	any answers in Remarks)		
· — · —	,	_				
SUMMARY OF FINDINGS - Att	ach site map show		ocations, transects, imp	ortant features, etc.		
Hydrophytic Vegetation Present?	ı	No	Is the Sampled Area			
Hydric Soil Present?		No	within a Wetland?	No		
		No	If yes, optional Wetlan	nd Site ID:	-	
Wetland Hydrology Present?			ii yes, optional wetian	——————————————————————————————————————		
Remarks: (Explain alternative pro The upland point is located on the			faucat			
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
Primary Indicators (minimum of o	one is required; ch	neck all that apply)		Surface Soil Cracks	[B6)	
Surface Water (A1)	-	Water-Stained Leav	es (B9)	Drainage Patterns (E	310)	
——— High Water Table (A2)	-	Aquatic Fauna (B13)		Moss Trim Lines (B1	•	
Saturation (A3)	-	Marl Deposits (B15)		Dry-Season Water T		
1	Water Marks (B1) Hydrogen Su			Crayfish Burrows (C8	· · · · ·	
	Sediment Deposits (B2) Oxidized Rhi				Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3) Presence of F					Stunted/Stressed Plants (D1)	
			on in Tilled Soils (C6)		Geomorphic Position (D2)	
	Iron Deposits (B5) Thin Muck Surfa			Shallow Aquitard (D3	Shallow Aquitard (D3) Microtopographic Relief (D4)	
Inundation Visible on Aerial Imagery (B7) Other (Explain			emarks)		FAC-Neutral Test (D5)	
Field Observations:	lace (Bo)			FAC-Neutral Test (D3		
Surface Water Present?	No	Depth (inches)	1			
Water Table Present?	No	Depth (inches)				
Saturation Present?	No	Depth (inches)		Wetland Hydrology Present?	No_	
(includes capillary fringe)				, ,,		
Describe Recorded Data (stream	gauge, monitorin	g well, aerial photos, p	revious inspections), if a	available:		
Remarks:						
No wetland hydrology indicators	were observed.					
Ī						

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
ee Stratum (Plot Size: 30 ft)	% Cover	Species?	Status	Number of Dominant Species	
Fraxinus nigra	10.00	Yes	FACW	That Are OBL, FACW, or FAC: 2 (A)	
Populus tremuloides	10.00	Yes	FACU	Total Number of Dominant	
				4	
	-			Species Across All Strata: (B)	
				Percent of Dominant Species	
				50 That Are OBL, FACW, or FAC:(A/B)	
				Prevalence Index worksheet:	
	20	= Total Cover		OBL species 0.00 x 1 0	
oling/Shrub Stratum (Plot Size: 15 ft)				FACW species <u>45.00</u> x 2 <u>90</u>	
Populus tremuloides	20.00	Yes	FACU	FACU species 17.00 x 3 308	
Fraxinus nigra	10.00	Yes	FACW	UPL species <u>40.00</u> x 4 <u>200</u>	
Cornus alba	5.00	<u>No</u>	FACW	Column Totals (A) (B)	
		_	_	Prevalence Index = B/A = $\frac{3.6256983}{1}$	
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				no 2 - Dominance Test is > 50%	
	35	_ = Total Cover		$\frac{\text{no}}{}$ 3 - Prevalence Index is $\leq 3.0^{1}$	
rb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations (Provide	
Phleum pratense	25.00	Yes	FACU	supporting data in Remarks or on a separate sheet)	
Valeriana officinalis	20.00	No No		Problematic Hydrophytic Vegetation ¹ (Explain)	
Lotus corniculatus	20.00	No No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless	
Bromus inermis	15.00	No No	UPL	disturbed or problematic.	
Asclepias syriaca	5.00	No	UPL	Definitions of Vegetation Strata:	
Solidago gigantea	5.00	No No	FACW	_	
Poa pratensis	5.00	<u>No</u>	FACU	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.	
Carex tenera	5.00	<u>No</u>	FAC	neight (DBH), regardless of neight.	
Lysimachia ciliata	5.00	No No	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH and greater that or equal to 3.28 ft (1 m) tall.	
Carex gracillima	5.00	No	FACU	or equal to 5.26 it (1 iii) tall.	
Ranunculus acris	2.00	<u>No</u>	FAC	Herb - All herbaeceous (non-woody) plants, regardless of size, and	
Melilotus officinalis	2.00	No No	FACU	woody plants less than 3.28 ft tall.	
	114	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
oody Vine Stratum (Plot Size:)					
				_	
				Hydrophytic	
				Vegetation Present?	
		_		_	
				1	
	0	=Total Cover			

SOIL										Sampling Point: CR163e1U
Profile Desci	ription: (Describe to the	depth ne	eded to	document the	e indicato	or or cor	firm th	e al	bsence of inc	dicators.)
Depth	Matrix			Redox Features						
(inches)	Color (moist)	%	Co	olor (moist)	%	Type ¹	Loc ²		Texture	Remarks
0-3	5YR 3 3	_ 100						С		
3-24	5YR 4 4	_ 100						С		
								_		
								_		
								_		
		_			_					
¹ Type: C=Conc	entration, D=Depletion, RM=	Reduced M	atrix, MS	S=Masked Sand Gr	ains.					² Location: PL=Pore Lining, M=Matrix
Hydric Soil Ind	icators:								Indicators for	Problematic Hydric Soil ³ :
☐ Histoso	I (A1)			Polyvalue Below 149B)	Surface (S	8) (LRR R,	MLRA		2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)			Thin Dark Surfac	e (S9) (LRF	R, MLRA	149B)		Coast Pra	airie Redox (A16)(LRR K, L, R)
	istic (A3)			Loamy Mucky M	lineral (F1)	(LRR K, L)			5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
☐ Hydrog	en Sulfide (A4)			Loamy Gleyed M	latrix (F2)				Dark Surf	face (S7) (LRR K, M)
Stratifie	ed Layers (A5)			Depleted Matrix	(F3)				Polyvalue	e Below Surface (S8) (LRR K, L)
☐ Deplete	ed Below Dark Surface (A11)			Redox Dark Surf	ace (F6)				Thin Dark	Surface (S9) (LRR K, L)
Thick D	ark Surface (A12)			Depleted Dark S	urface (F7)				Iron-Mag	ganese Masses (F12) (LRR K, L, R)
Sandy N	Mucky Mineral (S1)			Redox Depression	ons (F8)				Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy 6	Gleyed Matrix (S4)								Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy F	Redox (S5)								Red Pare	nt Material (F21)
Strippe	d Matrix (S6)								☐ Very Sha	llow Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, MLRA 149	В)							Other (ex	oplain in remarks)
Restrictive Lay	er (if observed):									
Туре:										. No

Depth (inches):

The soils are entirely clay and have no hydric soil indicators.

Remarks:

Hydric Soil Present? No