WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Carlton ity/County:		Sampling Date:	2015-06-25		
Enbridge Applicant/Owner:			Minnesota State:	CR162e1U Sampling Point:			
ACM Investigator(s):		Sec	ction, Township, Range:				
Landform (hillslope, terrace, etc.):	Rise		Local Relief (concave, 6	Conve convex, none):	0-2 Slope (%): Minnesota State		
Subregion (LRR or MLRA):		Latitude:	Lo	-92.180143 ongitude: Datu	ım:		
Soil Map Unit Name:				NWI Classificatio	n:		
Are climatic/hydrologic conditions	s on the site typic	cal for this time of year	r? (if no, explain in Rema	arks):	Yes		
Yes No Are Vegetation, Soil	N . or Hydrology	o significantly distu	rbed? Are "Normal Circ	No ::umstances" present?			
No No No Are Vegetation, Soil, c	No						
SUMMARY OF FINDINGS - Atta	ach site map sho	wing sampling point lo	ocations, transects, imp	portant features, etc.			
Hydrophytic Vegetation Present?	No						
Hydric Soil Present?		No	within a Wetland?				
Wetland Hydrology Present?		No	If yes, optional Wetlan	nd Site ID:			
Remarks: (Explain alternative pro	ocedures here or	in a senarate report \	1 ' '				
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicators (mir	nimum of two required)		
Primary Indicators (minimum of o	ne is required; ch	neck all that apply)		Surface Soil Cracks (I	B6)		
Surface Water (A1)	-	Water-Stained Leav	res (B9)	Drainage Patterns (B	10)		
High Water Table (A2) Aquatic Fauna ()	Moss Trim Lines (B16	Moss Trim Lines (B16)		
Saturation (A3) Marl Deposit		Marl Deposits (B15))	Dry-Season Water Table (C2)			
Water Marks (B1)	Water Marks (B1) Hydrogen Su		dor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Sediment Deposits (B2) Oxidized Rhiz		res on Living Roots (C3)	Saturation Visible on	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Drift Deposits (B3) Presence of Re		ed Iron (C4)	Stunted/Stressed Plan	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)	Algal Mat or Crust (B4) Recent Iron Red		on in Tilled Soils (C6)	Geomorphic Position	Geomorphic Position (D2)		
Iron Deposits (B5)	Iron Deposits (B5) Thin Muck Surfa		(C7)	Shallow Aquitard (D3	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7) Other (Explain		Other (Explain in Re	emarks)	Microtopographic Re	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Sur	face (B8)			FAC-Neutral Test (D5)			
Field Observations:							
Surface Water Present?	No	Depth (inches					
Water Table Present?	No	Depth (inches					
Saturation Present?	<u>No</u>	Depth (inches)	Wetland Hydrology Present?	<u>No</u>		
(includes capillary fringe) Describe Recorded Data (stream §			unaviava inamantiana\ if	quailabla			
Describe Recorded Data (stream §	gauge, monitoring	g weii, aeriai priotos, p	revious inspections), ii a	avaliable:			
Remarks:							
No wetland hydrology indicators	were observed.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
ee Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species		
		эрээлэг.		That Are OBL, FACW, or FAC: 0 (A)		
			_	Total Number of Dominant		
			_	1		
				Species Across All Strata:(B)		
				Percent of Dominant Species		
				0 That Are OBL, FACW, or FAC:(A/B)		
	-	_				
	-	_	_	Prevalence Index worksheet:		
	0	- Total Cavar	_	Total % Cover of: Multiply by:		
alia a /Charaba Charabana / Dlab Cina	0	_ = Total Cover		X1		
oling/Shrub Stratum (Plot Size:)				X2		
			_	x =		
			_	x :		
		<u> </u>		Column Totals(A)(B)(B)		
				Prevalence Index = B/A = 4.025		
				Hydrophytic Vegetation Indicators:		
			_	1 - Rapid Test for Hydrophytic Vegetation		
		_	_	no 2 - Dominance Test is > 50%		
	0	_ = Total Cover		$\frac{\text{no}}{}$ 3 - Prevalence Index is $\leq 3.0^1$		
rb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
Poa pratensis	20.00	Yes	FACU	supporting data in Kemarks of Off a separate sheet)		
Lotus corniculatus	5.00	_ No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
Bromus inermis	5.00	<u>No</u>	UPL	1 Indicators of hydric soil and wetland hydrology must be present, unless		
Trifolium repens	2.00	No No	FACU	disturbed or problematic.		
Ranunculus acris	2.00	<u>No</u>	FAC	Definitions of Vegetation Strata:		
Equisetum arvense	2.00	No	FAC	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.		
Medicago lupulina	2.00	<u>No</u>	FACU			
Taraxacum officinale	2.00	No	FACU			
			_	_ Sapling/Shrub - Woody plants less than 3 in. DBH and greater t		
				or equal to 3.28 ft (1 m) tall.		
		_	_	Herb - All herbaeceous (non-woody) plants, regardless of size, and		
	-			woody plants less than 3.28 ft tall.		
	40	= Total Cover	_	Woody vines - All woody vines greater than 3.28 ft in height.		
oody Vine Stratum (Plot Size:)		_ = 10tal cover		viscay vines 7 in woody vines greater than 3.20 te in neight.		
Joury Ville Stratum (Flot Size)						
			_	Hydrophytic		
			_	Vegetation		
		_	_	Present?		
			_	-		
		=Total Cover				
	0	_				
marks: (include photo numbers here or on a separate sheet				1		

SOIL								Sampling Point: CR162e1U
Profile Descri	iption: (Describe to the o	depth needed	to document the	e indicatoı	r or conf	firm the	absence of inc	dicators.)
Depth	Matrix Redox Features							
(inches)	Color (moist)	% (Color (moist)	% 	Type ¹	Loc ²	Texture	Remarks
		·		· · ·	·	 		
	_			·				
	-			· ·	·	· · · · · · · · · · · · · · · · · · ·		
¹ Type: C=Conce	entration, D=Depletion, RM=R	Reduced Matrix, N	1S=Masked Sand G	rains.				² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indi			Polyvalue Below	/ Surface (S8) (LRR R,	MLRA		Problematic Hydric Soil ³ : ck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		Thin Dark Surfac	ce (S9) (LRR I	R, MLRA	149B)	Coast Pra	airie Redox (A16)(LRR K, L, R)
Black His			Loamy Mucky M		LRR K, L)			cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) d Layers (A5)		Loamy Gleyed M Depleted Matrix					face (S7) (LRR K, M) e Below Surface (S8) (LRR K, L)
	d Below Dark Surface (A11)		Redox Dark Surf					s Surface (S9) (LRR K, L)
	rk Surface (A12)		Depleted Dark S					ganese Masses (F12) (LRR K, L, R)
Sandy N	lucky Mineral (S1)		Redox Depression	ons (F8)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red Pare	ent Material (F21)
Stripped	Matrix (S6)						Very Sha	llow Dark Surface (TF12)
☐ Dark Sur	face (S7) (LRR R, MLRA 149B))					Other (ex	xplain in remarks)
Restrictive Laye	r (if observed):							
Type:	(:					Ну	dric Soil Present?	<u>No</u>
Remarks:	(inches):			i				
nciliai n5.					I			

Soils were not sampled due to the proximity of existing pipelines, but is assumed to be non-hydric based on the landscape position and dominance of non-hydrophytic vegetation.