WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Carlton ity/County:		Sampling Date:	2015-06-29	
Enbridge			Minnesota		CR162i1U	
	Applicant/Owner:LEB/ACM		State:	Sampling Point:		
Investigator(s):		Sec	tion, Township, Range: _			
Landform (hillslope, terrace, etc.):	rise		Local Relief (concave, co	onvex, none):	0-2 Slope (%):	
Subregion (LRR or MLRA):		Latitude:	5.595688	-92.298371 ngitude: Dat	Minnesota State	
303				igitude Dat	uiii	
Soil Map Unit Name:				. NWI Classification	on:	
Are climatic/hydrologic conditions	on the site typic	al for this time of year	? (if no, explain in Rema	rks):	Yes	
Are Vegetation, Soil	N , or Hydrology	o significantly distur	bed? Are "Normal Circu	Mo mstances" present?		
No No	No					
Are Vegetation, Soil, c	or Hydrology	_ naturally problemat	ic? (If needed, explain a	any answers in Remarks)		
SUMMARY OF FINDINGS - Atta	ich site map show	wing sampling point lo	ocations, transects, impo	ortant features, etc.		
		No		· · · · · · · · · · · · · · · · · · ·		
Hydrophytic Vegetation Present?		No.	Is the Sampled Area	No		
Hydric Soil Present?		No ——	within a Wetland?			
Wetland Hydrology Present?		No	If yes, optional Wetland Site ID:			
Remarks: (Explain alternative pro	cedures here or i	n a separate report.)	1			
The upland sample point is locate	ed in a very recen	ntly mowed hay field w	vithin a cleared pipeline o	corridor.		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
	na is raquirad, sh	ack all that apply)				
Primary Indicators (minimum of o	ne is required; ci	Water-Stained Leave	os (PO)	Surface Soil Cracks Drainage Patterns (E		
Surface Water (A1) Water-Stain Aquatic Fau Aquatic Fau			• •		Moss Trim Lines (B16)	
Saturation (A3) Marl Depos				•	Dry-Season Water Table (C2)	
Water Marks (B1)			dor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	-	Oxidized Rhizospher	res on Living Roots (C3)	Saturation Visible on	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)			d Iron (C4)	Stunted/Stressed Pla	Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4)	Algal Mat or Crust (B4) Recent Iron		on in Tilled Soils (C6)	Geomorphic Position	Geomorphic Position (D2)	
Iron Deposits (B5)	=	Thin Muck Surface (C7)	Shallow Aquitard (D3	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Other (Explain			marks)	Microtopographic Re	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Sur	face (B8)			FAC-Neutral Test (D5)	
Field Observations:	No	5 (;)				
Surface Water Present?	No	Depth (inches)				
Water Table Present?	<u>No</u> No	Depth (inches)		Watland Hidralam, Brasant	No	
Saturation Present? (includes capillary fringe)	110	Depth (inches)	' 	Wetland Hydrology Present?	110	
Describe Recorded Data (stream g	auge, monitoring	well, aerial photos, p	revious inspections), if a	vailable:		
2000	, a a B c) c	5 · · · · · · · · · · · · · · · · · · ·	. c v o do mop c cho no , ,			
Remarks:						
No indicators of wetland hydrolog	ny were observed	4				
No malcators of wetland flydrolog	gy were observed	ı.				

VEGETATION - Use scientific names of plants. Sampling Point: CR162i1U								
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum	(Plot Size:)	% Cover	Species?	Status	Number of Dominant Species			
1					That Are OBL, FACW, or FAC: 0(A)			
2					Total Number of Dominant			
					3			
3		-			Species Across All Strata: (B)			
4					Percent of Dominant Species			
5					0 That Are OBL, FACW, or FAC:(A/B)			
6					Prevalence Index worksheet:			
7				_	Total % Cover of: Multiply by:			
		0	= Total Cover		OBL species 0.00 x 1 0			
Sapling/Shrub Stratu	<u>m</u> (Plot Size:)		=		FACW species 0.00 x 2 0			
1					FACU species 0.00 x 3 156			
2					UPL species 10.00 x 4 50			
3					Column Totals 49 (A) 206 (B)			
4.			_	-	Prevalence Index = B/A = 4.2040816			
5			_	_	Hydrophytic Vegetation Indicators:			
6			_	-	1 - Rapid Test for Hydrophytic Vegetation			
7					no 2 - Dominance Test is > 50%			
/·		0	= Total Cover	-	no 3 - Prevalence Index is ≤ 3.0 ¹			
Herb Stratum (Plot S	ize: 5 ft	·	_ = 10001 55.5.		4 - Morphological Adaptations (Provide			
1. Trifolium repens	,	20.00	Yes	FACU	supporting data in Remarks or on a separate sheet)			
2. Bromus inermis		10.00	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)			
3. Poa pratensis		10.00	Yes	FACU				
4. Trifolium pratense		5.00	No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
5. Lotus corniculatus		2.00	No No	FACU	Definitions of Vegetation Strata:			
Taraxacum officina		2.00	No No	FACU	_ Definitions of vegetation strata.			
7	_	2.00	_ 110	- 17100	- Weeds aleate 3 in 1.75 cm) or more in diameter at breast			
8				-	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.			
9					- I feel to the state of the St			
9	_				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
10					-			
11					Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
12					-			
		49	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.			
	(Plot Size:)							
1			_		-			
2					Hydrophytic Vegetation			
3					Present?			
4					_			
		0	_ =Total Cover					
Remarks: (include pl	noto numbers here or on a separate sheet	.)						
Vegetation is domina	ted by clover species, smooth brome, and	Kentucky bluegra	SS.					

SOIL								Sampling Point: CR162i1U
Profile Descri	ption: (Describe to the o	depth needed t	to document the	e indicato	r or con	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	ntration, D=Depletion, RM=R	leduced Matrix, N	1S=Masked Sand G	rains.				² Location: PL=Pore Lining, M=Matrix.
Hydric Soil India	(A1)		Polyvalue Below				2 cm Mu	Problematic Hydric Soil ³ : ck (A10) (LRR K, L, MLRA 149B)
Histic Ep Black His	ipedon (A2) stic (A3)		Thin Dark Surface		•	149B)		airie Redox (A16)(LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R)
☐ Hydroge	n Sulfide (A4)		Loamy Gleyed N	Matrix (F2)			Dark Surf	face (S7) (LRR K, M)
Stratified	d Layers (A5)		Depleted Matrix	(F3)			Polyvalue	e Below Surface (S8) (LRR K, L)
	d Below Dark Surface (A11)		Redox Dark Surf	ace (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Da	rk Surface (A12)	L	Depleted Dark S	urface (F7)			Iron-Mag	ganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depression	ons (F8)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red Pare	ent Material (F21)
Stripped	Matrix (S6)						Very Shal	llow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, MLRA 149B))					Other (ex	xplain in remarks)
Restrictive Laye	r (if observed):							
Туре:						10.	/dric Soil Present?	o No
Depth	(inches):					ну	runc son Present?	
Remarks:								

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