WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Count	ty: Carlton	Sampling Date: 15-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-48n17w8-a2	2
Investigator(s): DPT	Section	n, Township, Range: S. 8	3 T. 48N R. 17W	
Landform (hillslope, terrace, etc.): Mound		f (concave, convex, none		3.0
Subregion (LRR or MLRA): LRR K	Lat.: 46 39.5075	Long.:	.92 31.8016 Datum: NAD 8	33
Soil Map Unit Name: 188C			NWI classification: N/A	
Are climatic/hydrologic conditions on the site	typical for this time of year?	Yes No (If	no, explain in Remarks.)	
Are Vegetation, Soil, or Hydr		(cumstances" present? Yes • No	
Are Vegetation, Soil, or Hydr	<i>.</i>		ain any answers in Remarks.)	
Summary of Findings - Attach sit		, , ,	•	etc
Hydrophytic Vegetation Present? Yes	No •	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Hydric Soil Present? Yes		the Sampled Area ithin a Wetland?	es O No 💿	
Wetland Hydrology Present? Yes	No •	ithin a wedand?		
Remarks: (Explain alternative procedures he				
Hadrala m.				
Hydrology				
Wetland Hydrology Indicators:	d. shook all that apply)	Sec	condary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required Surface Water (A1)			Surface Soil Cracks (B6) Drainage Patterns (B10)	
High Water Table (A2)			Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres along Liv	ving Roots (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled	Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes No •	Double (inches)			
Water Table Present? Yes No •		Wetland Hydrolog	ıv Present? Yes ○ No •	
Saturation Present? (includes capillary fringe) Yes No No	Depth (inches): 0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous	inspections), if available	::	
Remarks:				
romano.				

VEGETATION - Use scientific names of plants

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(Dlat size. 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	_ species:	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
		= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				0BL species 0 x 1 = 0
1	0			FACW species 0 x 2 = 0
2	0			
3				FAC speciles $30 \times 3 = 90$
4				FACU species x 4 =
5				UPL speci es $\frac{20}{}$ x 5 = $\frac{100}{}$
6.				Column Totals: 100 (A) 390 (B)
7				Prevalence Index = B/A = 3.900
		= Total Cove		
Herb Stratum (Plot size: 5		- Total Cove		Hydrophytic Vegetation Indicators:
	30	✓	FAC	Rapid Test for Hydrophytic Vegetation
		✓	FACU	☐ Dominance Test is > 50%
				Prevalence Index is ≤3.0 ¹
3. Asclepias syriaca		✓	UPL	Morphological Adaptations ¹ (Provide supporting
4. Achillea millefolium			FACU	data in Remarks or on a separate sheet)
5. Centaurea maculosa			UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			1
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				
	_	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)			•	greater than 3.26 it (1111) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4.	0			height.
т.	0 =	= Total Cove	-	lg.m
		- Total Cove	•	
				Hydrophytic
				Vogetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate s	heet.)			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-48n17w8-a2

	ription: (Describe to th	e depth ne	eded to document	the indica	tor or con	firm the a	bsence of indicators.)	
Depth	Matrix			dox Featur				
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
							-	
		-	-		-			
1 - 0 0						21		
		RM=Reduc	ed Matrix, CS=Covere	ed or Coated	a Sand Grai	ns ² Locat	ion: PL=Pore Lining. M=Ma	atrix
Hydric Soil							Indicators for Proble	matic Hydric Soils: 3
Histosol ((A1)		Polyvalue Belov	v Surface (S	88) (LRR R,		2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B)	(00) (15		4.405)		(A16) (LRR K, L, R)
☐ Black His	tic (A3)		Thin Dark Surfa			. 149B)		r Peat (S3) (LRR K, L, R)
☐ Hydroger	n Sulfide (A4)		Loamy Mucky I		LRR K, L)		Dark Surface (S7)	
Stratified	Layers (A5)		Loamy Gleyed					ırface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11))	Depleted Matri:				Thin Dark Surface	
☐ Thick Dar	rk Surface (A12)		Redox Dark Su					asses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S1)		Depleted Dark)			n Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depress	ions (F8)				(MLRA 144A, 145, 149B)
Sandy Re								
	Matrix (S6)						Red Parent Materia	
	face (S7) (LRR R, MLRA 14	49R)					☐ Very Shallow Dark	
							Other (Explain in R	emarks)
³ Indicators o	f hydrophytic vegetation a	and wetland	hydrology must be p	resent, unle	ess disturbe	d or proble	matic.	
Restrictive L	.ayer (if observed):							
Type:								_
Depth (inc	ches):						Hydric Soil Present?	Yes O No 💿
Remarks:								
No diadina			on-hydric based oi	n vegetatio	on and nyo	drology.		
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