WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Co	ounty: Aitkin	Sampling	Date: 01-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n23w30-g2
Investigator(s): DPT		Sect	tion, Township, Range:	s. 30 t. 51N	R. 23W
Landform (hillslope, terrace,	etc.): Lowland		elief (concave, convex, n		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	Lat.: 46 52.3	880 Long	-93 17.7360	Datum: NAD 83
Soil Map Unit Name: 292				NWI classification:	N/A
Are climatic/hydrologic cond	itions on the site ty	pical for this time of year?	Yes ● No ○	(If no, explain in Remarks	.)
Are Vegetation, Soil	_		bed? Are "Normal	Circumstances" present?	Yes ● No ○
Are Vegetation , Soil	, or Hydrol			explain any answers in Ren	narke.)
	_ , ,	e map showing sampli	•		•
Hydrophytic Vegetation Pres	sent? Yes •	No O			
Hydric Soil Present?	Yes ⊙	No O	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present?	Yes 💿	No O	Widini a Trode		
Hydrology					
Wetland Hydrology Indicato	ors:			Secondary Indicators (minimu	um of 2 required)
Primary Indicators (minimu		check all that apply)		Surface Soil Cracks (B6)	an or 2 required,
Surface Water (A1)		Water-Stained Leaves (B9)		Drainage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)		Dry Season Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	(00)
Sediment Deposits (B2) Drift deposits (B3)		Oxidized Rhizospheres along		Saturation Visible on Aer	
Algal Mat or Crust (B4)		Presence of Reduced Iron (Recent Iron Reduction in Til	•	Stunted or Stressed Plan Geomorphic Position (D2	, ,
Iron Deposits (B5)		Thin Muck Surface (C7)	lied soils (co)	Shallow Aquitard (D3))
Inundation Visible on Aeria	l Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)
Sparsely Vegetated Concav		Other (Explain in Nomano)		FAC-neutral Test (D5)	,
Field Observations:					
Surface Water Present?	Yes ● No ○	Depth (inches): 5	<u> </u>		
Water Table Present?	Yes ● No ○	Depth (inches):0		6	
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):0		ology Present? Yes	No ()
	eam gauge, monito	oring well, aerial photos, previo	ous inspections), if avail	able:	
Remarks:					

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	ants			Sampling Point: w-51n23w30-g2
(0) -1 - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1 Fraxinus nigra		✓	FACW	That are OBL, FACW, or FAC:5(A)
2. Acer rubrum		✓	FAC	Total Number of Dominant
3				Species Across All Strata:5(B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
6	0			That Are ODE, FACW, OF FAC.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	80=	= Total Cove	r	Total % Cover of: Multiply by: OBL speci es85 x 1 =85
1 _ Fraxinus nigra	10	✓	FACW	
2. Alnus incana	5	<u></u>	FACW	FACW species 85 x 2 = 170
3	0		-	FAC speciles 30 x 3 = 90
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6				Column Totals: 200 (A) 345 (B)
7				Prevalence Index = B/A = 1.725
		= Total Cove		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:
1. Carex lacustris	80	✓	OBL	Rapid Test for Hydrophytic Vegetation
2. Bidens tripartita			FACW	✓ Dominance Test is > 50%
3. Typha x glauca			OBL	Y Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting
5				data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
6				Problematic Hydrophytic Vegetation - (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				-
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2	-			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	105 =	= Total Cove	r	greater than 3.28 ft (1m) tall
1	0	Ц		Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3.	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cove	r	
				Hydrophytic Vegetation Present? Yes No
	L			
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: w-51n23w30-g2

(inches)		latrix		Redox Features	_ <u>_</u> .	
	Color (m			Color (moist) % Type 1 Loc2	Texture	Remarks
0-12	10YR	2/1	100		Muck	
12-20	10YR	3/1	100		Silty Clay Loam	
 Гуре: C=Con	centration. D=I	Depletio	n. RM=Red	uced Matrix, CS=Covered or Coated Sand Grains ² Loc	cation: PL=Pore Lining. M=Matr	ix
lydric Soil I		•		·		
Histosol (Polyvalue Below Surface (S8) (LRR R,	Indicators for Problem	
	pedon (A2)			MLRA 149B)	2 cm Muck (A10) (LR	
Black Hist				☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)	Coast Prairie Redox (
_	Sulfide (A4)			Loamy Mucky Mineral (F1) LRR K, L)		Peat (S3) (LRR K, L, R)
_	Layers (A5)			Loamy Gleyed Matrix (F2)	Dark Surface (S7) (Li	
_	Below Dark Su	rface (Δ	11)	Depleted Matrix (F3)	Polyvalue Below Surfa	
_	k Surface (A12)		11)	Redox Dark Surface (F6)	Thin Dark Surface (S	
_	uck Mineral (S1)			Depleted Dark Surface (F7)	_	ses (F12) (LRR K, L, R)
_	eyed Matrix (S4			Redox Depressions (F8)		Soils (F19) (MLRA 149B)
Sandy Re)				MLRA 144A, 145, 149B)
_	Matrix (S6)				Red Parent Material (•
Stripped i		D MIDA	1/OD)		Very Shallow Dark Su	
Dark Surf		N, IVILINA	1470)		Other (Explain in Ren	narks)
Dark Surf					L L P .	
			n and wetla	nd hydrology must be present, unless disturbed or prob	piematic.	
³ Indicators of		egetatio	n and wetla	nd hydrology must be present, unless disturbed or prot	blematic.	
³ Indicators of	f hydrophytic v	egetatio	n and wetla	nd hydrology must be present, unless disturbed or prot		
³ Indicators of estrictive La Type:	f hydrophytic vo	egetatio	n and wetla	nd hydrology must be present, unless disturbed or prot		Yes ● No ○
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