WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Aitkin	Sampli	ng Date: 31-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n24w25-b1
Investigator(s): SMR		Section, T	ownship, Range: S. 25	T. 51N	R. 24W
Landform (hillslope, terrace, etc.):	Hillside	Local relief (c	oncave, convex, none):	convex	Slope: 8.7 % / 5.0
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.4137	Long.: -9:	3 19.9259	Datum: NAD 83
Soil Map Unit Name: 870C		-		NWI classification:	N/A
Are Vegetation, Soil Summary of Findings - At Hydrophytic Vegetation Present?	, , , , _ ,	problematic? sampling p	`	any answers in Re ansects, impo	
Hydric Soil Present?	Yes No O Yes No O		e Sampled Area n a Wetland? Yes	○ _{No} ●	
Wetland Hydrology Present?					
Remarks: (Explain alternative pro WETS analysis shows precip is be	• •	ort.)			

Hydrology

Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of or	ne required; c	heck all that apply)	Surface Soil Cracks (B6)
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)
Sediment Deposits (B2)		Oxidized Rhizospheres along Living I	
Drift deposits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils	
Iron Deposits (B5)		Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imager	ry (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surfac	5		FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	🔾 No 🖲	Depth (inches): 0	
Water Table Present? Yes	🔾 No 🖲	Depth (inches):0	Wetland Hydrology Present? Yes 🔿 No 🖲
Saturation Present? Yes C) No 🖲	Depth (inches):0	Wetland Hydrology Present? Yes 🔾 No 🖲
Describe Recorded Data (stream ga	auge, monitor	ing well, aerial photos, previous insp	pections), if available:
Remarks:			

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plai	its			Sampling Point: u-51n24w25-b1
Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
1. Acer rubrum	20		FAC	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
2. Acer saccharum	30	\checkmark	FACU	
	20		FACU	Total Number of Dominant
A Demukus tremudaldas	10		FACU	Species Across All Strata:5_ (B)
				Percent of dominant Species
5				That Are OBL, FACW, or FAC:(A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	80 =	Total Cover		Total % Cover of: Multiply by:
1	0			OBL species x 1 =
2				FACW species $0 \times 2 = 0$
3				FAC species $20 \times 3 = 60$
4				FACU species x 4 =360
4 5				UPL species x 5 =300
				Column Totals:(A)(B)
6				
7				Prevalence Index = $B/A = 4.235$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
	60	\checkmark	UPL	Rapid Test for Hydrophytic Vegetation
		\checkmark	FACU	Dominance Test is > 50%
			TACO	Prevalence Index is \leq 3.0 ¹
3				Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric coil and wotland hydrology must
7				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Demittions of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	90 =	Total Cover		greater than 3.28 ft (1m) tall.
	0			
1	0			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	=	Total Cover		
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate she	et.)			

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

US Army Corps of Engineers

Depth Matrix Redox Features 0-4 10YR 2/2 100 Sill Loam 4.20 10YR 4/4 100 Sill Loam 5 10 10 10 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
0.4 10YR 2/2 100 Silt Loam 4-20 10YR 4/4 100 Silt Loam 4-20 10YR 10 10 10 4-20 10 10 10 10 10 4-4 10 10<
4-20 10YR 4/4 100 Silt Loam 4-20 10YR 4/4 100 Silt Loam Silt Loam Silt Loam Silt Loam
¹ Type: C-Concentration. DDepletion. RMReduced Matrix, CS-Covered or Coated Sand Grains ² Location: PL-Pore Lining. M-Matrix Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R. MLRA 1498) Indicators for Problematic Hydric Soils : ³ Histosol (A1) Polyvalue Below Surface (S9) (LRR R. MLRA 1498) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Damy Mucky Mineral (F1) LRR K, L) Damy Surface (S9) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (72) Polyvalue Below Surface (F6) Distatified Layers (A5) Loamy Gleyed Matrix (72) Polyvalue Below Surface (F6) Distatified Layers (A5) Loamy Gleyed Matrix (72) Polyvalue Below Surface (F7) Back Hairs (C4) Below Matrix (C4) Polyvalue Below Surface (F7) Distatified Layers (A5) Redox Dark Surface (F7) Polyvalue Below Surface (F12) (LRR K, L, R) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 1448) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 1448) Mesic Spodic (TA6) (MLRA 1448) Polyvalue Endow Matrix (S4) Polyvalue Endow The companiese Masses (T12) Stripped Matrix (S4) Hydrology must be present, unless disturbed or problematic. Restrictive Layer (If observed): Type:
Hydric Soil Indicators: Indicators for Problematic Hydric Soils : ³ Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Indicators for Problematic Hydric Soils : ³ Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Dark Surface (S9) (LRR K, L) Think Dark Surface (A12) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) altrace (S7) (LRR R, MLRA 149B) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144B) altrace (S7) (LRR R, MLRA 149B) Coard Prain Remarks) No Image for the second problematic (F12) Dark Surface (S7) (LRR R, MLRA 149B) Hydric Soil Present? Yes No Image for the second problematic (F12) Dark Surface (S7) (LRR R, MLRA 149B) Hydric Soil Present? Yes No Image for the second problematic.
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Histic Epipedon (A2) Intervention Histic Epipedon (A2) Intervention Black Histic (A3) Intin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (F6) Thick Dark Surface (A12) Redox Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Very Shallow Dark Surface (TF12) Type:
Black Histic (A3) Infinit Dark Surface (39) (LRR K, MLRA 149B) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Standy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes No ©
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Redox Dark Surface or problematic. Restrictive Layer (if observed): Type: Type: Type: Type: Depth (inches): Muck Mineral:
Image: Strictive Layer (if observed): Type: Type: Type: Type: Type: Type: Type: Deptet (inches):
Depleted before befo
Indict Dark Surface (H2) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Type: Depth (inches): No •
Sandy Muck Millerai (31) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
Sandy Gleyed Matrix (34) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Type: Hydric Soil Present? Yes No •
Stripped Matrix (S6) Image: Red Falent Material (121) Dark Surface (S7) (LRR R, MLRA 149B) Image: Very Shallow Dark Surface (TF12) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks) Restrictive Layer (if observed): Type:
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Type: Type: Depth (inches):
Restrictive Layer (if observed):
Type: Depth (inches):
Depth (inches): Hydric Soil Present? Yes O No •
Remarks: