WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	Aitkin ty/County:		Sampling Date:	015-06-27	
Enbridge			Minnesota		\12C5158a3W	
Applicant/Owner:KAT/E	REH		State:	Sampling Point: _		
Investigator(s):		Sec	tion, Township, Range: _			
Landform (hillslope, terrace, etc.):	Depression		Local Relief (concave, co	LC onvex, none):	0-2 Slope (%):	
Subregion (LRR or MLRA):		46	5.6263817856	-93.24260118 pgitude: Datu	Minnesota State	
532					PSS1C	
Soil Map Unit Name:				NWI Classification		
Are climatic/hydrologic conditions	on the site typic	al for this time of year	? (if no, explain in Remar	rks):	Yes ————	
Are Vegetation No	or Hydrology	o significantly distur	bed? Are "Normal Circu	Yes mstances" present?		
No No	No					
Are Vegetation, Soil, o	r Hydrology	_ naturally problemati	ic? (If needed, explain a	ny answers in Remarks)		
SUMMARY OF FINDINGS - Attac	ch site map shov	ving sampling point lo	cations, transects, impo	ortant features, etc.		
		Yes				
Hydrophytic Vegetation Present?		 Yes	Is the Sampled Area	Yes		
Hydric Soil Present?			within a Wetland?			
Wetland Hydrology Present?		Yes	If yes, optional Wetland	d Site ID:		
Remarks: (Explain alternative prod	cedures here or i	n a separate report.)				
The wetland is a wet meadow in a	roadside ditch o	dominated by reed car	nary grass and fowl blueg	grass.		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mini	mum of two required)	
Primary Indicators (minimum of or	<u>ie is requirea; cn</u>	_	(00)	Surface Soil Cracks (B		
Surface Water (A1) High Water Table (A2)	_	Water-Stained LeaveAquatic Fauna (B13)	• •	Drainage Patterns (B1-	J)	
Saturation (A3)	_	Marl Deposits (B15)		Dry-Season Water Tab	le (C2)	
Water Marks (B1)					Crayfish Burrows (C8)	
Sediment Deposits (B2)			res on Living Roots (C3)	, , , ,	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)					Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4)			on in Tilled Soils (C6)	vos.		
Iron Deposits (B5)			C7)	Shallow Aquitard (D3)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imag	Inundation Visible on Aerial Imagery (B7) Other (Explain		marks)	Microtopographic Reli	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surfa	ace (B8)			yes FAC-Neutral Test (D5)		
Field Observations:		,				
Surface Water Present?	<u>No</u>	Depth (inches)				
Water Table Present?	<u>No</u>	Depth (inches)				
Saturation Present?	<u>No</u>	Depth (inches)		Wetland Hydrology Present?	<u>Yes</u>	
(includes capillary fringe)						
Describe Recorded Data (stream ga	auge, monitoring	g well, aerial photos, p	revious inspections), if a	vailable:		
Remarks:						
The ditch is an area that collects w	vater and the veg	getation passes the FA	C-Neutral test.			

Sampling Point: Al2C5158a...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 2 (A)
2.		_		Total Number of Dominant
				2
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				100 That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
7		_		Total % Cover of: Multiply by:
	0	= Total Cover		OBL species 15.00 x 1 15
Sapling/Shrub Stratum (Plot Size:)		_		FACW species 75.00 x 2 150
1.				FACU species 5.00 x 3 60
2				UPL species 0.00 x 4 0
3.		_	_	Column Totals 110 (A) 240 (B)
4.		_		Prevalence Index = B/A = 2.1818181
		_	_	
5			-	Hydrophytic Vegetation Indicators:
6		_		1 - Rapid Test for Hydrophytic Vegetation
7	0			yes 2 - Dominance Test is > 50%
5'	0	_ = Total Cover		yes 3 - Prevalence Index is ≤ 3.0 ¹
Herb Stratum (Plot Size: 5') Phalaris arundinacea	35.00	W	54614	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Des relients	35.00	Yes Yes	FACW	
Taifaliana hahaidana	35.00	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Schoonoplastus tahornaamantani	15.00	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless
4. Schoenopiectus taberriaeriioritarii	10.00	No No	OBL	disturbed or problematic.
Science micro	5.00	No No	FACW	Definitions of Vegetation Strata:
6. Scirpus microcarpus	5.00	No No	OBL	-
7. Carex tenera	5.00	No No	FAC FAC	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
8			_	-
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10			- ·	or equal to 3.20 ft (1 fill) tall.
11.			- · 	Herb - All herbaeceous (non-woody) plants, regardless of size, and
12				woody plants less than 3.28 ft tall.
	110	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)				
1			_	_
2				Hydrophytic
3				Vegetation Present?
4				
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	.)	_		•
The sample point is dominated by reed canary grass and fowl b				

SOIL								Sampling Point: AI2C5158
Profile	e Description: (Describe to the de	epth needed to	document the	e indicato	or or con	firm the	absence of inc	dicators.)
Depth	n Matrix		Redox	Features		_		
(inche	Color (moist)	% Co	olor (moist)	% 	Type ¹	Loc ²	Texture	Remarks
				- -				
				_				
				_				
	C=Concentration, D=Depletion, RM=Re	duced Matrix, MS	S=Masked Sand Gi	rains.				² Location: PL=Pore Lining, M=Matrix.
Hydric	Soil Indicators: Histosol (A1)		Polyvalue Below	Surface (S	8) (LRR R,	MLRA		Problematic Hydric Soil ³ : ck (A10) (LRR K, L, MLRA 149B)
	Histic Epipedon (A2)		Thin Dark Surfac	·	D MIDA	140P\		airie Redox (A16)(LRR K, L, R)
	Black Histic (A3)		Loamy Mucky M					cky Peat or Peat (S3) (LRR K, L, R)
	Hydrogen Sulfide (A4)		Loamy Gleyed M		(LINIX IX, L)			face (S7) (LRR K, M)
	Stratified Layers (A5)		Depleted Matrix					e Below Surface (S8) (LRR K, L)
	Depleted Below Dark Surface (A11)		Redox Dark Surf	ace (F6)			Thin Dark	s Surface (S9) (LRR K, L)
	Thick Dark Surface (A12)		Depleted Dark S	urface (F7))		☐ Iron-Mag	ganese Masses (F12) (LRR K, L, R)
	Sandy Mucky Mineral (S1)		Redox Depression	ons (F8)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
	Sandy Gleyed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
	Sandy Redox (S5)						Red Pare	ent Material (F21)
	Stripped Matrix (S6)						Very Sha	llow Dark Surface (TF12)
	Dark Surface (S7) (LRR R, MLRA 149B)						✓ Other (ex	xplain in remarks)
Restric	ctive Layer (if observed):							
Ту	/pe:					H	ydric Soil Present?	Yes
	Depth (inches):	<u> </u>					,	
Remar	ks:				I			

Due to the location in a roadside ditch, the soil was not sampled. The soils are assumed to be hydric based on the landscape position and dominance of hydrophytic vegetation.