WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	City/Count	Hubbard		Sampling Date:	2015-07-07	
Enbridge			Minnesota		HUC5071b1W	
Applicant/Owner: BEH/KAT			State:	Sampling Point:		
Investigator(s):		Sect	tion, Township, Range: _			
Landform (hillslope, terrace, etc.):	ession		Local Relief (concave, co	CC onvex, none):	0-2 Slope (%):	
LRR K		 47	.05983285	-95.14269432	Minnesota State	
Subregion (LRR or MLRA):526C		Latitude:	Lon	-95.14269432 gitude: Dat	um:	
Soil Map Unit Name:				NWI Classification	on:	
Are climatic/hydrologic conditions on th	ne site typical for this	s time of year	? (if no, explain in Remar	ks):	Yes	
Are Vegetation No	No vdrology signif	ficantly distur	hed? Are "Normal Circur	Yes		
No No	No					
Are Vegetation, Soil, or Hyd	rology natural	lly problemati	ic? (If needed, explain a	ny answers in Remarks)		
SUMMARY OF FINDINGS - Attach sit	o man showing sam	nling naint la	estions transacts impo	rtant foatures, etc		
SOMMANT OF FINDINGS - ACCOUNTS	Yes	ping point io	cations, transects, impo	rtant reatures, etc.		
Hydrophytic Vegetation Present?			Is the Sampled Area			
Hydric Soil Present?	Yes		within a Wetland?	Yes		
	Yes		If yes, optional Wetland	Site ID:		
Wetland Hydrology Present? Remarks: (Explain alternative procedur	es here or in a senar	rate report)	, , , , , , , , , , , , , , , , , , , ,			
The sample point is located in a sedge			naciae grassas and sadge	ac		
The sample point is located in a seage	meadow dominated	by bull usir sp	occies, grasses, and seage			
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
Primary Indicators (minimum of one is r	equired; check all th	nat apply)		Surface Soil Cracks	B6)	
Surface Water (A1)	Wate	er-Stained Leave	es (B9)	Drainage Patterns (E	310)	
High Water Table (A2)		atic Fauna (B13)		Moss Trim Lines (B1	·	
yes Saturation (A3)		Deposits (B15)		Dry-Season Water T		
. ,	Water Marks (B1) Hydrogen Sulfi				Crayfish Burrows (C8)	
Sediment Deposits (B2) Drift Deposits (B3)			res on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9) Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4)			on in Tilled Soils (C6)	yes Geomorphic Position		
Iron Deposits (B5)					Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B					Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B	8)			yes FAC-Neutral Test (D5)	
Field Observations:						
Surface Water Present?	<u>No</u> D	epth (inches)				
Water Table Present?	<u>Yes</u> D	epth (inches)	20			
Saturation Present?	<u>Yes</u> D	epth (inches)	7	Wetland Hydrology Present?	<u>Yes</u>	
(includes capillary fringe)						
Describe Recorded Data (stream gauge,	monitoring well, ae	rial photos, p	revious inspections), if av	/ailable:		
Remarks:						
Soil is saturated 7" below the surface.						

VEGETATION - Use scientific names of plants.

Sampling Point: <u>HUC5071b...</u>

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species	
1				_ That Are OBL, FACW, or FAC: ³ (A)	
2				Total Number of Dominant	
				3	
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 <u>55.00</u> x 1 <u>55</u>	
Sapling/Shrub Stratum (Plot Size: 15')				FACW species 31.00 x 2 62	
1. Salix bebbiana	3.00	Yes	FACW	FACU species 5.00 x 3 20	
2. Salix petiolaris	3.00	Yes	FACW	UPL species 0.00 x 4 0	
3				Column Totals 96 (A) 152 (B)	
4				Prevalence Index = B/A = <u>1.5833333</u>	
5				Hydrophytic Vegetation Indicators:	
6				yes 1 - Rapid Test for Hydrophytic Vegetation	
7				yes 2 - Dominance Test is > 50%	
	6	= Total Cover		yes 3 - Prevalence Index is ≤ 3.0 ¹	
Herb Stratum (Plot Size: 5'		_		4 - Morphological Adaptations (Provide	
1. Scirpus microcarpus	20.00	Yes	OBL	supporting data in Remarks or on a separate sheet)	
2. Poa palustris	15.00	No No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Scirpus cyperinus	10.00	No	OBL	- [
4. Salix bebbiana	5.00	No	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
5. Scirpus atrovirens	5.00	No	OBL	Definitions of Vegetation Strata:	
6. Carex retrorsa	5.00	No	OBL		
7. Symphyotrichum puniceum	5.00	No	OBL	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast	
8. Carex hystericina	5.00	No No	OBL	height (DBH), regardless of height.	
9. Heliopsis helianthoides	5.00	No	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than	
10. Carex stipata	5.00	No	OBL	or equal to 3.28 ft (1 m) tall.	
11. Euthamia graminifolia	5.00	No	FAC	Herb - All herbaeceous (non-woody) plants, regardless of size, and	
12. Solidago gigantea	5.00	No	FACW	woody plants less than 3.28 ft tall.	
	90	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot Size:)				, , ,	
1.					
2.				Hydrophytic	
3.	_			Vegetation	
4.	_			Present?	
T.	0	=Total Cover			
Remarks: (include photo numbers here or on a separate shee	<u> </u>				
Scattered willow species dominate the shrub component. Par		nates the diverse g	round cover		
Seattered Willow Species dominate the Shrub component. Far	ncica ban asir asiri	nates the diverse g	round cover.		

SOIL Profile Description	cription: (Describe to the	depth n		e indicat		nfirm th	ne absence of in	Sampling Point: HUC5071 adicators.)	
(inches) 0-8	Color (moist) 10YR 2 1	% _ 100	Color (moist)	%	Type ¹	Loc ²	Texture SCL	Remarks	
8-17	2.5Y 5 1	60	10YR 3 6	_ 5	С	PL	CL		
8-17			7.5YR 3 4	_ 5	С	М	CL		
8-17		_	GLEY1 5 10Y	15	D	М	CL		
8-17	10YR 2 1	_ 15	_		_		CL		
17-25	5Y 7 2	80	GLEY1 5 5G_/1	_ 10	D	PL	SICL		
		_	10YR 5 8	_ 10	С	М	SICL		
			_				-	-	
							-		
¹ Type: C=Con	 ncentration, D=Depletion, RM=	Reduced	 Matrix, MS=Masked Sand G	irains.	-			² Location: PL=Pore Lining, M=Matrix	
Hydric Soil In	dicators:						Indicators for	r Problematic Hydric Soil ³ :	
Histos	ol (A1)		Polyvalue Belov 149B)	w Surface ((S8) (LRR F	R, MLRA	2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)	
Histic	Epipedon (A2)		Thin Dark Surface (S9) (LRR R, MLRA 149B)			A 149B)	Coast Prairie Redox (A16)(LRR K, L, R)		
Black I	Histic (A3)		Loamy Mucky Mineral (F1) (LRR K, L)			_)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
Hydro	gen Sulfide (A4)		Loamy Gleyed Matrix (F2)				Dark Surface (S7) (LRR K, M)		
Stratif	ied Layers (A5)		Depleted Matrix (F3)				Polyvalue Below Surface (S8) (LRR K, L)		
✓ Deplet	ted Below Dark Surface (A11)		Redox Dark Surface (F6)				Thin Dark Surface (S9) (LRR K, L)		
Thick I	Dark Surface (A12)		Depleted Dark Surface (F7)				Iron-Maganese Masses (F12) (LRR K, L, R)		
☐ Sandy	Mucky Mineral (S1)		Redox Depressions (F8)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy	Gleyed Matrix (S4)						Mesic Sp	oodic (TA6) (MLRA 144A, 145, 149B)	
Sandy	Redox (S5)						Red Pare	ent Material (F21)	
Strippe	ed Matrix (S6)						Very Sha	allow Dark Surface (TF12)	
Dark S	iurface (S7) (LRR R, MLRA 149 1	в)					Other (e	explain in remarks)	

Soil is dark sandy clay loam underlain by two depleted layers of clay loam and silty clay loam. Both depleted layers have abundant redox concentrations and gleyed depletions. The profile meets hydric soil indicators A11-Depleted Below Dark Surface and F3-Depleted Matrix.

Hydric Soil Present? Yes

Restrictive Layer (if observed):

Depth (inches):

Type: _

Remarks: