WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Hubbard City/County:		Sampling Date:	2015-07-02	
Enbridge		Minnesota		HUC5071a1U	
Applicant/Owner:KAT/BEH		State:	Sampling Point:		
Investigator(s):	Sec	ction, Township, Range:			
Side Slope Landform (hillslope, terrace, etc.):		Local Relief (concave, co	LL nvex, none):	20 Slope (%):	
LRR K Subregion (LRR or MLRA):	4	7.0619593	-95.1411818	Minnesota State	
526E				um:	
Soil Map Unit Name:			NWI Classificatio	n:	
Are climatic/hydrologic conditions on the site	e typical for this time of yea	r? (if no, explain in Remark	cs):	Yes	
Are Vegetation No	No ogy significantly distu	rbed? Are "Normal Circun	Yes nstances" present?		
No No	No				
Are Vegetation, Soil, or Hydrolog	y naturally problema	tic? (If needed, explain an	y answers in Remarks)		
SUMMARY OF FINDINGS - Attach site ma	n showing sampling point l	ocations transacts imnor	tant features etc		
30WWART OF FINDINGS - Attach site ma	No	cations, transects, impor	tant reatures, etc.		
Hydrophytic Vegetation Present?		Is the Sampled Area			
Hydric Soil Present?	No 	within a Wetland?	No		
	No	If yes, optional Wetland	Site ID:		
Wetland Hydrology Present? Remarks: (Explain alternative procedures he	ro or in a congrate report \	, , , , , , , , , , , , , , , , , , , ,			
Upland sample point in a fire-dependent for					
opiana sample point in a me dependent for	CJt.				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators (mir	nimum of two required)	
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leav	res (B9)	Drainage Patterns (B	10)	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16	5)	
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Ta	ble (C2)	
Water Marks (B1)	Hydrogen Sulfide O	dor (C1)	Crayfish Burrows (C8)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizosphe	res on Living Roots (C3)	Saturation Visible on	Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduce		Stunted/Stressed Plan		
Algal Mat or Crust (B4)		ion in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Re	emarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)	1		FAC-Neutral Test (D5)		
Field Observations: Surface Water Present?	Depth (inches	,			
Water Table Present?					
Saturation Present?			Wetland Hydrology Present?	No	
(includes capillary fringe)		, <u> </u>			
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, p	previous inspections), if av	ailable:		
Remarks:					
No primary or secondary wetland hydrology	indicators were observed.				
, and a second of the second o					

Sampling Point: HUC5071a...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot Size: 30'	% Cover	Species?	Status	Number of Dominant Species
1. Abies balsamea	45.00	Yes	FAC	That Are OBL, FACW, or FAC: 2(A)
2. Populus tremuloides	10.00	No	FACU	Total Number of Dominant
Detule nanywifers		-	. '	5
3. Betula papyrifera	5.00	No	FACU	Species Across All Strata: (B)
4		<u> </u>	-	Percent of Dominant Species
5				40 That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
7		-		Total % Cover of: Multiply by:
	60	= Total Cover		OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size: 15')		_		FACW species 5.00 x 2 10
1. Corylus cornuta	10.00	Yes	FACU	FACU species 50.00 x 3 320
2. Populus tremuloides	10.00	Yes	FACU	UPL species 60.00 x 4 300
3. Fraxinus nigra	5.00	Yes	FACW	Column Totals 195 (A) 780 (B)
4.				Prevalence Index = B/A = 4
5				Hydrophytic Vegetation Indicators:
6			-	1 - Rapid Test for Hydrophytic Vegetation
7		-		no 2 - Dominance Test is > 50%
	25	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot Size: 5')		_ = 10ta1 cove1		4 - Morphological Adaptations (Provide
1 Eurybia macrophylla	50.00	Yes	UPL	supporting data in Remarks or on a separate sheet)
2. Thalictrum dioicum	15.00	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Carex pensylvanica	10.00	No		Toolemate Hydrophytic regulation (Explain)
4. Aralia nudicaulis	10.00	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Carex pedunculata	10.00	No	FACU	Definitions of Vegetation Strata:
6. Rubus idaeus	5.00	No	FACU	Definitions of Vegetation Strata.
7 Pteridium aquilinum	5.00	No	FACU	Ture Weady plants 2 in / 76 and or many in dispresses at basest
8. Clintonia borealis	5.00	No	FAC	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
9	3.00		. IAC	·
5		·		Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10	-	-	· ·	
11		-	· ·	Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12	-	_	· ·	
	110	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)				
1		_		
2				Hydrophytic Vegetation
3		_		Present?
4				.[
	0	_ =Total Cover		
Remarks: (include photo numbers here or on a separate sheet.)			
The canopy is dominated by balsam fir. The shrub layer is domi	nated by beaked h	azelnut and quakin	g aspen and black	ash saplings. Ground cover is predominantly large-leaf aster.

Profile Desci	iption: (Describe to th	e depth ne	eded to document the	indicato	r or cor	firm th	e absence of ind	icators.)	
Depth	Depth Matrix		Redox	Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-2	10YR 2 1	100		- —			VFSL .		
2-8	_ 10YR 4 3	100					FSL .		
8-24	10YR 5 3	100					FSL .		
	_								
	_								
	_		_						
¹ Type: C=Conc	entration, D=Depletion, RM	1=Reduced M	latrix, MS=Masked Sand Gr	ains.				² Location: PL=Pore Lining, M=Matrix	
Hydric Soil Ind	icators:			a 6 (a)	a) (Indicators for P	Problematic Hydric Soil ³ :	
☐ Histoso	I (A1)		Polyvalue Below 149B)	Surface (S	8) (LRR R,	MLKA	2 cm Muc	k (A10) (LRR K, L, MLRA 149B)	
Histic E	pipedon (A2)		Thin Dark Surfac	e (S9) (LRR	R, MLRA	149B)	Coast Prai	irie Redox (A16)(LRR K, L, R)	
☐ Black H	istic (A3)		Loamy Mucky M	ineral (F1)	(LRR K, L)		5 cm Muc	ky Peat or Peat (S3) (LRR K, L, R)	
☐ Hydrog	en Sulfide (A4)		Loamy Gleyed M	atrix (F2)			Dark Surfa	ace (S7) (LRR K, M)	
Stratifie	ed Layers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)	
☐ Deplete	ed Below Dark Surface (A11)	Redox Dark Surfa	ace (F6)			Thin Dark	Surface (S9) (LRR K, L)	
☐ Thick D	ark Surface (A12)		Depleted Dark So	urface (F7)			☐ Iron-Maga	anese Masses (F12) (LRR K, L, R)	
	Mucky Mineral (S1)		Redox Depression	ns (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)	
	Gleyed Matrix (S4)						Mesic Spoo	dic (TA6) (MLRA 144A, 145, 149B)	
Sandy F	ledox (S5)						Red Paren	nt Material (F21)	
Strippe	d Matrix (S6)						Very Shall	ow Dark Surface (TF12)	
Dark Su	rface (S7) (LRR R, MLRA 14	9B)					Other (exp	plain in remarks)	

Soil is dark very fine sandy loam underlain by two brown layers of fine sandy loam; the profile does not meet any hydric soil indicators.

Hydric Soil Present? No

Restrictive Layer (if observed):

Depth (inches):

Type: ___

Remarks: