## WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Hubbard ity/County:		2015-06-29 Sampling Date:			
Enbridge Applicant/Owner:			Minnesota State:	HUC5028c1U Sampling Point:			
BEH/B Investigator(s):	CS	Sec	tion, Township, Range:				
Landform (hillslope, terrace, etc.): _ LRR K		4-	7 1050700	convex, none): -95.1316836 ongitude: Da			
Subregion (LRR or MLRA): 526C		Latitude:	Lc	ongitude: Da	atum:		
Soil Map Unit Name:				NWI Classifica	tion:		
Are climatic/hydrologic conditions of Are Vegetation No No No No Are Vegetation No	or Hydrology No	o significantly distur	bed? Are "Normal Circ	cumstances" present?	Yes		
SUMMARY OF FINDINGS - Attack	n site map sho		ocations, transects, imp	oortant features, etc.			
Hydrophytic Vegetation Present?		No	Is the Sampled Area				
Hydric Soil Present?		No	within a Wetland?	No	No		
riyunc son Fresent:		No		and Cita ID.			
Wetland Hydrology Present?  Remarks: (Explain alternative proce			If yes, optional Wetlar	nd Site ID:			
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicators (n	ninimum of two required)		
Primary Indicators (minimum of one	e is required; cl	neck all that apply)		Surface Soil Crack	s (B6)		
Surface Water (A1)	_	Water-Stained Leav	es (B9)	Drainage Patterns	(B10)		
High Water Table (A2)	High Water Table (A2) Aquatic Fauna (I			Moss Trim Lines (F	Moss Trim Lines (B16)		
Saturation (A3)	Saturation (A3) Marl Deposits (			Dry-Season Water	Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfid		dor (C1)	Crayfish Burrows (	C8)		
Sediment Deposits (B2)	-	Oxidized Rhizospher	res on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	-	Presence of Reduce	d Iron (C4)	Stunted/Stressed Plants (D1)			
Algal Mat or Crust (B4)	_	Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)			
Iron Deposits (B5)	_	Thin Muck Surface (	C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Image	Inundation Visible on Aerial Imagery (B7) Other (Explain in		marks)	Microtopographic	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface	ce (B8)			yes FAC-Neutral Test (I	05)		
Field Observations:							
Surface Water Present?	<u>No</u>	Depth (inches)					
Water Table Present?	No	Depth (inches)					
Saturation Present?	<u>No</u>	Depth (inches)		Wetland Hydrology Present	? <u>No</u>		
(includes capillary fringe)				111			
Describe Recorded Data (stream ga	uge, monitorin	g weii, aeriai photos, p	revious inspections), if	available:			
Remarks:							
Vegetation passes the FAC-Neutral	test, but no ot	her hydrological indica	tors were observed.				
1							

**VEGETATION** - Use scientific names of plants.

Sampling Point: HUC5028c...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot Size: 30'	% Cover	Species?	Status	Number of Dominant Species
1. Populus tremuloides	35.00	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Fraxinus nigra	20.00	Yes	FACW	Total Number of Dominant
3 Quercus macrocarpa	3.00	No	FACU	4 Species Across All Strata:(B)
4.	3.00	_ :::0	- 17.00	Percent of Dominant Species
				Fercent of Dominant Species 50
5			_	That Are OBL, FACW, or FAC:(A/B)
6			_	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	58	= Total Cover		OBL species <u>0.00</u> x 1 <u>0</u>
Sapling/Shrub Stratum (Plot Size: 15' )				FACW species <u>45.00</u> x 2 <u>90</u>
1. Fraxinus nigra	15.00	Yes	FACW	FACU species 30.00 x 3 352
2. Viburnum rafinesquianum	15.00	Yes		UPL species <u>20.00</u> x 4 <u>100</u>
3. Prunus virginiana	10.00	No	FACU	Column Totals <u>183</u> (A) <u>632</u> (B)
4. Corylus cornuta	10.00	No	FACU	Prevalence Index = B/A = $\frac{3.4535519}{1.00}$
5. Amelanchier alnifolia	5.00	No	FACU	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7			- '-	no 2 - Dominance Test is > 50%
	55	= Total Cover		no 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
Herb Stratum (Plot Size: 5')		_		4 - Morphological Adaptations 1 (Provide
1. Athyrium angustum	20.00	Yes	FAC	supporting data in Remarks or on a separate sheet)
2. Toxicodendron rydbergii	10.00	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Amelanchier alnifolia	10.00	No No	FACU	
4. Osmundastrum cinnamomeum	10.00	No No	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Thalictrum dioicum	5.00	No	FACU	Definitions of Vegetation Strata:
6. Oryzopsis asperifolia	5.00	No		
7 Streptopus lanceolatus	5.00	No No	FACU	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8. Luzula acuminata	5.00	No No	FACU	height (DBH), regardless of height.
9	5.00			-
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.			_	-
	70	_ = 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 quaking aspen and black ash. The	shrub component	is mostly comprise	d of black ash sapli	ngs and downy arrowwood. Ground cover is predominantly lad

SOIL	iam (Dagwika ta tha	-l		in dianta.		finns als	h	Sampling Point: HUC5028c
Profile Description: (Describe to the depth needed to Depth Matrix				to document the indicator or confirm the absenct Redox Features				ilicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3		_ 100		·			sl	
3-24	10YR 3 2						sl	
<sup>1</sup> Type: C=Concent	ration, D=Depletion, RM=	 Reduced Ma	atrix, MS=Masked Sand Gra	ains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicat	ors:						Indicators for F	Problematic Hydric Soil <sup>3</sup> :
Thick Dark Sandy Muc Sandy Gley Sandy Redo	edon (A2)  (A3)  Sulfide (A4)  ayers (A5)  elow Dark Surface (A11)  Surface (A12)  ky Mineral (S1)  ed Matrix (S4)  ox (S5)		Polyvalue Below 149B)  Thin Dark Surface Loamy Mucky Mi Loamy Gleyed M Depleted Matrix Redox Dark Surfa Depleted Dark Surfa Redox Depression	e (S9) (LRR I neral (F1) (I atrix (F2) (F3) ice (F6)	R, MLRA	149B)	Coast Pra 5 cm Muc Dark Surfa Polyvalue Thin Dark Iron-Maga Piedmont Mesic Spo	ck (A10) (LRR K, L, MLRA 149B) irie Redox (A16)(LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R) ace (S7) (LRR K, M) EBelow Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) anese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149B) adic (TA6) (MLRA 144A, 145, 149B) ant Material (F21) low Dark Surface (TF12)
Dark Surfac	ce (S7) <b>(LRR R, MLRA 149</b>	в)	7					plain in remarks)

Hydric Soil Present? No

Туре: \_\_\_

Remarks:

Depth (inches):

Soil is dark sandy loam underlain by slightly lighter sandy loam. The profile does not meet any hydric soil indicators.