

Appendix 1

Field Sample Analysis Procedure

Squeeze Technician

Site Analysis Procedure

(abridged from: Korpijaako & Pheeny 1977 and Modified by Anderson & Broughm 1980)

1. Location Sketch

Sketch position relative to two other survey points if present, or indicate distances relative to islands and changes in bog perimeter. Sketch in changes in surface cover between and around sites.

Example:

- "U"..... Mineral Soil/upland
- "LSB"..... Low Shrub Bog
- "GTB"..... Graminoid Treed Bog
- "⊗"..... Site 500



2. Deposit Identification Number

- A. Map sheet code Mainland "Q12"
- B. Map sheet code Cape Breton "X171"
- C. Deposit Number Mainland "0-99"
- D. Deposit Number Cape Breton "0-9"
- E. Deposit Number sub-letter "a-g"

A	B	C	D	E
MAP		BOG		
Q	1	2	1	1
		b		

3. Sample Site Identification

- A. Base line type
 - B-primary grid base line
 - F-secondary grid base line
 - H-Tertiary grid base line
- B. Relative direction of survey line (N, S, E, W)
- C. Site position (10's of meters)
- D. Type of side line or cross line (L, G, I)

A	B	C	D
B	L	G	I
1	1	1	1
5	3	2	

4. Growth Form

Only three growth forms may be entered. These forms must decrease in height from left to right, ending in the right most space. Least abundant forms in each height class are entered first. A bracket is placed in front of minor occurrences. (See Radforth Growth Form key)

Eg. A low shrubby moss cover with minor occurrences of Sedge

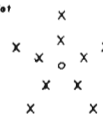
Cover Type
1, F, E, I

5. Snags

Ten probes are carried out in a five metre radius around the site with a two-metre T-bar. Information gathered is recorded as follows:

- Eg. 2 Snag Hit ≤ 1 metre
- 1 Snag Hit > 1 metre
- 3 Snag Hit total

Snags
2 / 3
0-11-2 Tot



14. Coarse Fibre

The coarse fibres are also estimated by using a scale of 0-3 and the symbol "R" in the manner tabulated above. In this case, mainly rootlets are recorded. Often the rootlets of *Carex* or Ferns are referred to and also identified in the formula as such.

15. Woody Remnants

The presence of woody remnants in the peat may be a serious problem, especially when peat is harvested for peat moss production. For this purpose a scale of 0-3 and the symbol 'V' are used.

V₀ Nil

V, Low content

V₂ Moderate Content

V₃ High Content

H	B	F	R	V
1-0	1-5	0-3	0-3	0-3
				3

16. Profile Remarks

Other pertinent information is added to the end of the formula, using suitable symbols and abbreviations. Thus layers of charcoal indicating old fires, seeds, and other recognizable plant remnants, may be noted.

Eg. Some charcoal at 180, sedges and shrubs.

Remarks	
Minor Peat Types, Charcoal, Stumps, etc.	
C h a r /	C & N

17. Bottom Sediments

The last items to be recorded are the possible layers of detritus, ooze, gyttja, and finally the type of bottom soil.

Eg. Rock bottom	Rock	RO
	Gravel	GR
	Sand	SA
	Silt	SI
	Clay	CL
	Till	TI

Sediment

RO

Summary

When all the information about the site has been recorded, a set of peat formulae for the site will have been created. The formulas may resemble the following:

X1246a _____ Cape Breton deposit X124-6a
B115N032W _____ Sample site 1150 meters north
and 320 meters west from the
origin "B00N"

0-30C₂S₈H₃B₃R₂ (Char 10)... first lense from surface to 30 cm in depth is 80% Shpagnum and 20% sedge with a humification of 3. The lense has a normal wetness of 3 with notable occurrences of course fibres (*Trichophorum* rootlets). An occurrence of charcoal has been noted at 10cm in depth.

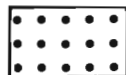
LEGEND OF PROFILE SYMBOLS

Peat Types

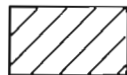
<i>Sphagnum</i> Peat (S)			<i>Sedge</i> Peat (C)
<i>Sedge - Sphagnum</i> (CS)			<i>Sphagnum - Sedge</i> (SC)
<i>Shrub - Sphagnum</i> (NS)			<i>Shrub - Sedge</i> (NC)
<i>Eriophorum - Sphagnum</i> (ErS)			<i>Wood - Sedge</i> (LC)
<i>Trichophorum - Sphagnum</i> (TrS)			<i>Bryales - Sedge</i> (BC)
<i>Wood - Sphagnum</i> (LS)			<i>Shrub - Sphagnum - Sedge</i> (NSC)
<i>Bryales - Sphagnum</i> (BS)			<i>Wood - Sphagnum - Sedge</i> (LSC)
<i>Wood - Sedge - Sphagnum</i> (LCS)			<i>Bryales</i> Peat (B)
<i>Shrub - Sedge - Sphagnum</i> (NCS)			<i>Detritus - Ooze</i>
<i>Trichophorum - Sedge - Sphagnum</i> (TrCS)			<i>Clay</i>

Peat Humification

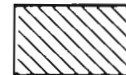
Von Post 1-3



Von Post 4



Von Post 5-10



Radforth Cover Types

A Tall trees (<4.5m)	F Sedges grasses (<0.5m)
B Low trees (1.5-4.5m)	G Herbs (<0.5m)
C Grasses (0.5-1.5m)	H Lichens
D Tall shrubs (0.5-1.5m)	I Mosses
E Low shrubs (<0.5m)	P Disturbed

Jeglum Cover Types

e.g. GB, STB, LSB, (Refer. "Tri-Level Peatland classification system")