**1,2Harris, L.I., 1Moore, T.R., 1Roulet, N.T.R and 1,3Pinsonneault., A.J. Lichens: a limit to peat growth? *Journal of Ecology*.**

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**File list:**

CO2\_flux.csv

Vegetation.csv

Leachates.csv

FTIR.csv

Bulk\_density.csv

**File descriptions:**

**CO2\_flux.csv** – contains all carbon dioxide (CO2) fluxes (net ecosystem CO2 exchange, NEE, µmol m-2 s-1) measured at MOE Bog (full size chamber) and NRB (mini-chamber) with corresponding PPFD (photosynthetic photon flux density, µmol m-2 s-1). Moisture content (% dry weight basis) of lichen and *Sphagnum* samples from plots at NRB are included.

**Vegetation.csv** – contains percentage cover for species measured in 34 quadrats at MOE Bog. Includes species richness, Simpson Diversity, and Shannon Diversity for each quadrat.

**Leachates.csv** – contains results of chemical analyses for four field replicates for each depth increment at 3 plots per species at MOE Bog. Mean values for field replicates of TSP and PO activity are means of 4 to 6 replicates used for the lab analyses.

**FTIR.csv** – contains absorbance values for samples from shallow peat cores at MOE Bog.

**Bulk\_density.csv** – contains values for dry bulk density for samples from shallow peat cores at MOE Bog.