Margaret C. Mumford, M.D. (Maggie) is a native of central NH who transitioned from medicine to teaching life sciences at Holderness School (Holderness, NH) sixteen years ago. She graduated from Williams College (BA, Biology, with a Coordinate in Environmental Studies) and Washington University School of Medicine. Maggie veered off of her intended career of biological research and now desires to assist others with their scientific work. In particular, she would like to help researchers with ecological research projects at Hubbard Brook during a portion of her sabbatical year from Holderness School (July 2016 to July 2017).

She is motivated in her teaching by the desire to help students achieve high levels of scientific literacy and has a pedagogical philosophy of open inquiry and experiential learning. At Squam Lake she has volunteered extensively in water quality testing programs and has led pilot aquatic invasive species control efforts . Prior laboratory experience includes an internship in a pharmaceutical lab, and she has collaborated with medical clinical researchers. Courses taught include AP Biology, Introductory Biology, Environmental Science, Human Anatomy and Physiology, Human Development, Chemistry and STEM Energy Solutions, and most have curriculum which she developed and implemented. Ecology teaching has involved phenology studies based on the Hubbard Brook protocol as well as other activities linked to Hubbard Brook research. Over the past ten years, she has also led efforts in environmental sustainability at Holderness, with focus primarily on energy and on climate change education. Two energy facilities have been constructed during this time: A 112 KW photovoltaic array and woodchip boiler with campus- wide pressurized hot water distribution system.

Her proximity, familiarity with the ecosystem, flexibility with time, and school- funded nature of the sabbatical means she could be of benefit as a dedicated volunteer in a variety of projects, including those in which summer runs out but data collection needs to be ongoing into the fall. She would prefer to work outside for a majority of the time, is in excellent physical shape and loves to hike, and would be comfortable with supervised or independent work. Current projects of particular interest include those involving nutrient cycling and plant responses to climate change, but she would be happy to provide assistance in any project. She is Excel savvy but has not done significant computer modeling. She is easily available for training after mid-May 2016 and potentially earlier. She is highly motivated and would learn background information as requested.

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