Applications of Quaternary geology and till geochemistry projects in northeastern New Brunswick

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Quaternary mapping and till sampling in the Pointe-Verte and Bathurst areas provide baseline geological data for mineral exploration, environmental applications, land use planning, and forest management, and assist in locating sources of aggregate and clay-rich basal till. The study area is located in northeastern New Brunswick and includes part of the Jacquet River Gorge protected area, a significant amount of private land, municipalities, including the city of Bathurst, and the Port of Belledune.

A total of 369 basal till samples were collected, and surficial mapping was done to develop a model for glacial dispersion and to assist mineral exploration. Glacial striations, roches moutonées, and drumlinized topography indicate ice flow in an east-northeast direction in the Pointe-Verte area and western part of the Bathurst map area. Ice flow in the central part of the Bathurst sheet is towards north-northeast, along