

# Overview of Activities Undertaken as Part of the Coastal Geology Program in 2016-2017

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Under the Coastal Geology Program, common activities include assessment of geohazards as they relate to public health and safety; historical, present and future erosion typically occurring in coastal environments; and assessments of present and future infrastructure sustainability. The studies include identifying causative factors, frequency and magnitude of events, hazard levels, and recommendations for preventative measures to reduce or ameliorate hazards and other issues, such as sustainability and costs identified during site visits.

During 2016-17 additional field work was undertaken at Blomidon Provincial Park and Five Islands Provincial Park. A report based on results of studies at Five Islands Park will be released in 2017. It is anticipated that new field investigations will be limited in 2017. The main work focus over the next year will be on completing and preparing the release of legacy information and projects.

The following open file reports based on recent field studies were released in 2016:

- A geotechnical examination of coastal armouring between Judique and Long Point, southern Inverness County, Cape Breton Island, Nova Scotia, by Finck, P W; Nova Scotia Department of Natural Resources, Open File Report ME 2016-002, 13 p.
  - An assessment of infrastructure sustainability and geohazards at Blomidon Provincial Park, Nova Scotia, by Finck, P W; Nova Scotia Department of Natural Resources, Open File Report ME 2016-007, 23 p.
- Three additional open file reports were released in 2016. The reports are based on historic internal reports that were not previously publicly released.
- Geotechnical aspects of shoreface erosion and causeway deterioration at Graves Island Provincial Park, Nova Scotia, by Finck, P W; Nova Scotia Department of Natural Resources, Open File Report ME 2016-003, 18 p.
  - A review of the geology, mining, production and market opportunities for quartz, kaolin and mica, with reference to the White Rock Mine, Yarmouth County, Nova Scotia, by Finck, P W; Nova Scotia Department of Natural Resources, Open File Report ME 2016-004, 76 p.
  - Geological and geotechnical observations relating to beach stability and sustainability of the beach access stairways, Rissers Beach Provincial Park, Nova Scotia, by Finck, P W; Nova Scotia Department of Natural Resources, Open File Report ME 2016-005, 12 p.