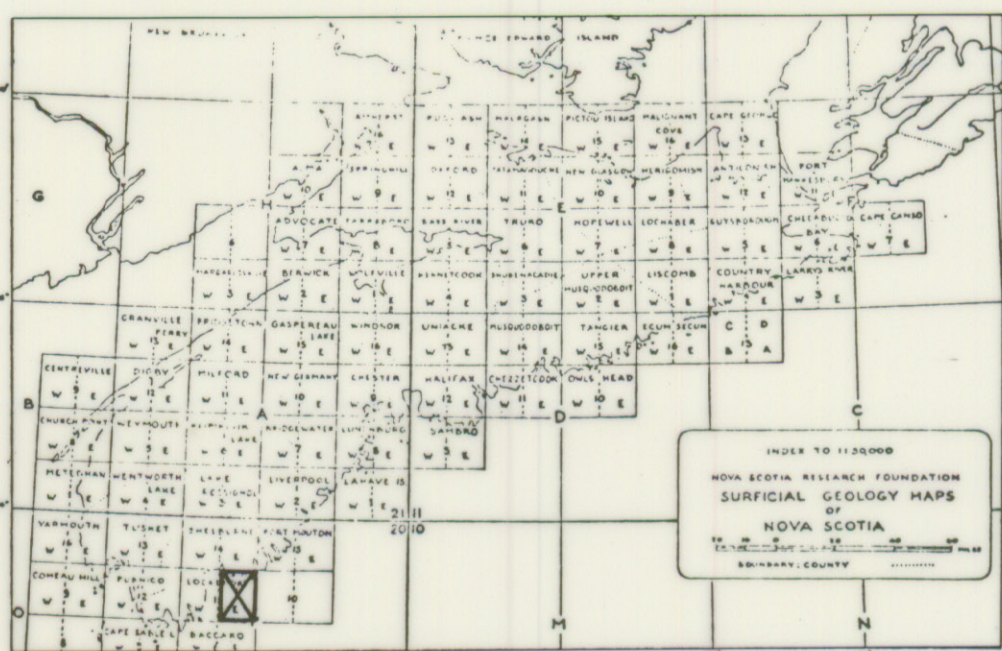




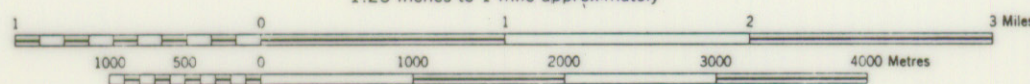
Geology by R.H. MacNeill, 1956



# LOCKPORT 20P/11E

## SURFICIAL GEOLOGY

SCALE 1:50,000  
1.25 inches to 1 mile approximately



NOVA SCOTIA RESEARCH FOUNDATION  
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### LEGEND

- DRUMLIN & MORAINE
- KAME
- ESKER
- DELTA
- TILL AREAS (undiff.)
- SWAMP
- ROADS & TRAILS
- STREAMS
- GLACIAL STRIAE

### DESCRIPTIVE NOTES

#### GENERAL

The bedrock in the Lockport East sheet is that of the Goldenville Formation of the Meguma Group. It is largely quartzite, with bands of mica schist derived from the original argillaceous beds. The land area on the map sheet is small. The surface is an ancient peneplain and the shoreline is one of submergence. The bedrock outcrops very widely.

#### TILL AND DRUMLINS

There is a great difference in the thickness of till; some areas have 15 feet of drift, while others

have none or a very thin till veneer on the glaciated meta-sediments. The till is light gray in colour, contains much rock flour and small rock fragments largely from the areal rock. A number of the hillocks are till-covered roches moutonnées. Drumlins are common, as is generally the case when Meguma rocks comprise the bedrock. These also contain a grey, rock-flour-rich type of drift, similar in content to the till.

#### GLACIOPLUVIALS

There are numerous kames in the area between Jordan Ferry and Jordan Bay, in the Lydgate area, in Louis Head, and to the west of Swansburg. Others may be found in association with the eskers north of Rockland.

#### STRIAE

The quartzite retains striae quite well and these may be found in a number of places. The striae indicate a general direction of ice advance from the north northwest with a few indicating an advance from almost north. Groovings may be found, some of which are quite large.

#### DEGLACIATION

Much of the englacial drift was carried beyond the coastline and deposited on the continental shelf. The water-laid drift on land seems to be from the last remains of a stagnant ice mass, probably the late local ice cap which followed the last major ice advance of the Wisconsin.