

Surficial Geology of the Arnprior Map-area (31 F/8)

Ontario-Quebec

LEGEND

PLEISTOCENE & RECENT

Description and Remarks

Thickness

7	Organic deposits	Peat and muck generally within topographic lows underlain by Precambrian marbles, Paleozoic limestones and, in places, sandy alluvium.	Generally greater than 3 feet.
6	Alluvium	Medium- to fine-grained, yellow-brown, non-fossiliferous sand commonly associated with abandoned river channels at elevations of 375' a.s.l. In places alluvium is derived from unit 4.	
Marine Deposits			
5	Clay	Comprises clay, silty clay and clayey silt deposited within the Champlain Sea or derived from Champlain Sea sediments. Two clays occur within the map-area. The lower clay is blue-grey, soft, highly plastic, calcareous and fossiliferous. The upper clay is brown, fissured commonly silty, moderately plastic and contains fossil fragments. The two clays are exposed only in excavations thus the map shows only the distribution of the upper clay. These clays appear to correlate with the Champlain Sea clays found elsewhere in the Ottawa Valley.	Varies from a few feet to as much as 160 feet.
4	Sand	Medium- to fine-grained, yellow-brown sand, commonly fossiliferous. Generally occurs adjacent to bedrock outcrops between elevations of 325-375 feet a.s.l.	3 to 100 feet.
3	Gravel, sand	Generally occurs between elevations of 375-400 feet a.s.l. adjacent to bedrock highs. Beaches composed of gravel and gravelly sand are derived from older glacial deposits; limestone shingle beach deposits are directly associated with outcrops of Paleozoic rocks. Both types of deposits are fossiliferous.	20 to 50 feet.

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Glacial and Related Deposits

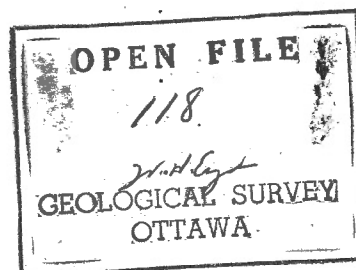
2	Outwash	Mainly gravel and sand with minor till.	100 feet
1	Till	Grain size ranges from clay to boulders with sand predominant. Generally exposed only adjacent to bedrock highs.	Less than 3 feet to greater than 15 feet.

PRE-PLEISTOCENE

PR	Paleozoic Rock	Mainly Lower Paleozoic limestone. Some sandstone and shale; commonly veneered by till.
PCR	Precambrian Rock	Granitic rocks and Grenville-type metasedimentary gneisses and crystalline limestones (marbles); commonly veneered by till and organic deposits.

SYMBOLS

R	Paleozoic rock outcrop	⊙	Fossil locality	⌒	Dunes
R	Precambrian rock outcrop	GP	Gravel pit	S	Landslide scar
⌒	Scarp	SP	Sand pit	✕	Beach ridge
	Glacial striation on bedrock	Q	Quarry		



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