

MAP AR90-1  
**SURFICIAL GEOLOGY AND AGGREGATE  
DEPOSITS  
OF THE RURAL MUNICIPALITIES OF  
WINCHESTER AND MORTON**

TO ACCOMPANY AGGREGATE RESOURCES REPORT AR90-1

**LEGEND**

**QUATERNARY**

**POST GLACIAL**

7 Swamp deposits: organic muck and peat

**PROGLACIAL**

6 Lacustrine deposits: formed in Glacial Lake Whitewater

6b >2m silt and clay: plain surface flat to gently rolling

6a <2m silt and clay over till, abundant circular ridges 1m high

5 Meltwater stream deposits: formed primarily by meltwater from stagnating ice, flowing off Turtle Mountain; includes alluvial fan and deltaic deposits

5b predominantly sand and gravel

5a predominantly sand

**GLACIAL**

4 Ice contact sand and gravel: deposited between and over blocks of dead ice

3 Stagnation moraine:

3b till, hummocks up to 15m high; includes organics and mud accumulating in kettle lakes and sloughs

3a till, on flanks of Turtle Mountain; includes colluvial and alluvial sediments

2 Ground moraine:

2b till, rolling plain, relief 1-3m

2a till, modified by water erosion, includes minor silt and clay

1 Corrugated moraine: till, subarcuate ridges, concave northwest, relief 1-5m; includes organic deposits

**SYMBOLS**

- Beach ridge
  - Meltwater channel: undifferentiated sediments
  - Meltwater stream
  - Sand and gravel pit; intermittent usage
  - Sand and gravel pit; abandoned
  - Sand and gravel site; minor extraction
  - Field station; sample - S  
(Site number prefix: HG)
  - Backhoe station; sample - S  
(Site number prefix: HB)
  - Till section;  
(Site number prefix: HT)
  - Dept. of Highways backhoe and/or sample site
  - Deposit number
  - Bedrock outcrop
  - Deposit Production Potential
  - High: sand and gravel
  - Low: sand or minor gravel reserves around abandoned pit
- Geology by: H. Groom

**INDEX MAP**

