

SURFICIAL GEOLOGY and AGGREGATE DEPOSITS in the RURAL MUNICIPALITY of PIPESTONE

LEGEND

QUATERNARY

Post Glacial

- 8 Colluvium: undifferentiated sediments; slope deposits
- 7 Alluvium: primarily silt and clay, some sand and minor gravel; deposited by present day streams

Proglacial

- 6.5.4 Lacustrine sediments: deposited in Glacial Lake Souris
- 6 Basinal: silt, usually >2m thick; includes minor areas of clay
- 5 Littoral: sand, medium to fine-grained, usually >2m thick; grades westward into deltaic sands
- 4b Deltaic: sand and gravel, generally 2-4m thick overlying till; sediments are thicker and coarser to west and north
- 4a Deltaic: sand, pebbly sand and local areas of fine gravel; where gravel occurs it is generally >1.5m thick and overlies till or sand
- 3a Meltwater channel: subdued; sediment is till, somewhat modified by water erosion
- 3b Meltwater channel: water eroded; sediments include till, cobble lag or minor sand and gravel accumulation
- 3c Meltwater channel: sand and gravel, usually >2m thick, overlying till

Glaciofluvial

- 2 Esker: sand and gravel, from 2-10m thick; material ranges from sand to cobble gravel

Glacial

- 1 Till plain: deposited by ice from the northwest; includes areas of abundant doughnut mounds 1-3m high; unit includes organic deposits accumulating in depressions

SYMBOLS

- Meltwater streams: channels usually till floored with local accumulations of sand and gravel
- Escarpment
- Sand and gravel pit: intermittent usage
- Sand and gravel pit: abandoned
- Sand and gravel site: minor extraction: intermittent usage
- Sand and gravel site: minor extraction: abandoned
- Field station: sample "s" (Site prefix in text: HM)
- Backhoe station: sample "s" (Site prefix in text: HB)
- Backhoe station: sample "s" (Site prefix in text: HA)
- 12001 Deposit number
- Gravel occurrence
- Aggregate Deposit

Deposit Production Potential

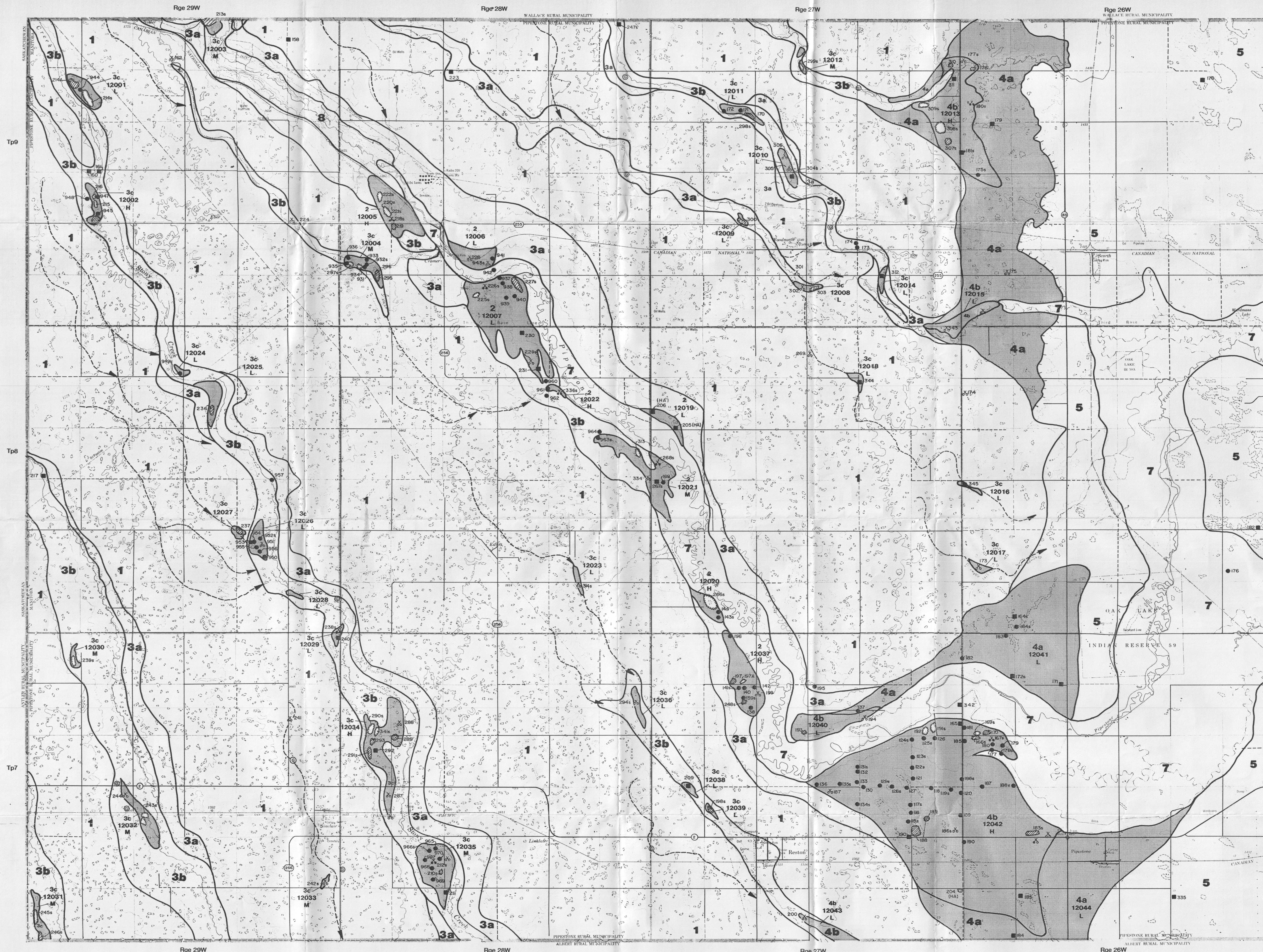
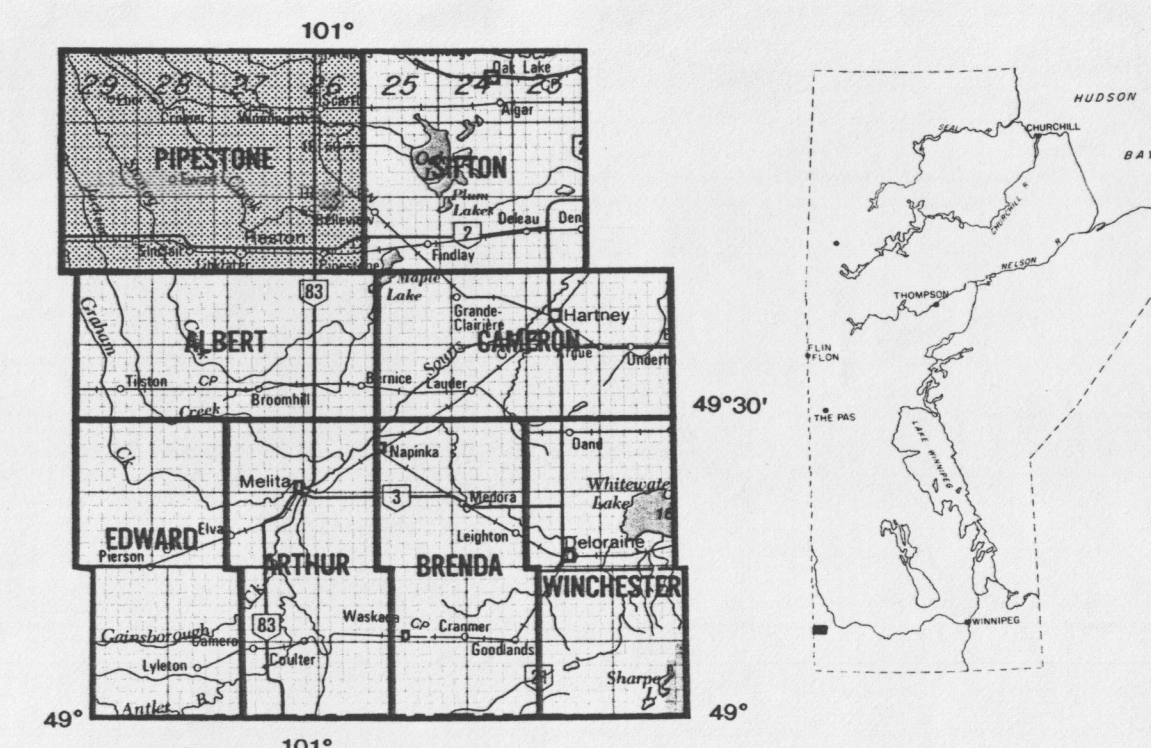
- (H) High (M) Moderate (L) Low

Deposit Symbol

- 3c Deposit type
- 12001 Deposit number
- L Production potential

INDEX MAP

Part of 62F/6, 62F/7, 62F/10, 62F/11, 62F/14 & 62F/15.



Geology by H. Groom

Cartography by L. Villeneuve

The base for this map is taken from N.T.S. Maps 62F/6(1980), 62F/7(1987), 62F/10(1980), 62F/11(1980), 62F/14(1980), 62F/15(1980). Her Majesty the Queen in Right of Canada with permission of Energy, Mines and Resources Canada.

To accompany Aggregate Report AR93-1

Scale 1:50 000

KILOMETRES 0 1 2 3 4 5