UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MAP SHOWING PIEZOMETRIC CONTOURS FOR THE JORDAN SANDSTONE AND COMBINED INDUSTRIAL AND MUNICIPAL GROUND-WATER PUMPAGE

1 0 10 Miles

EXPLANATION

3.0
2.0
1.0
0.75
0.5
0.25
0.1
0.05

Less than 0.05

Average pumpage in million gallons per day during the years 1949-51

TOTAL 20.1

Total pumpage within the city boundary in million gallons per day

0.8

Areas of concentrated pumpage and pumpage in million gallons per day

Jordan sandstone where exposed or directly overlain by glacial deposits (After Schwartz, 1936)

800

Piezometric contour in spring of 1949 (Modified after Bradley, 1949)

Direction of ground-water flow

MINNEAPOLIS
TOTAL 23.9

SAINT PAUL
TOTAL 20.1

TOTAL 14.6
South Saint Paul

5.4
1.7
0.8
2.8
0.4
2.4
1.4
1.3
0.4
4.4
7.0
2.4
3.8

Base from Minnesota Geological Survey Maps