DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
NEW YORK STATE DEPARTMENT OF HEALTH

OPEN-FILE REPORT 82-83
(SHEET 4 OF 7)

AQUIFER THICKNESS

By

Henry R. Anderson

EXPLANATION

TILL HILL--surrounded by aquifer

10 — LINE OF EQUAL SATURATED THICKNESS OF AQUIFER--dashed where approximately located. Interval in feet, varies as shown on map

AREAS LACKING SUBSURFACE DATA

A—A' LINE OF SECTION--see sheet 2, "Geologic Sections"

AQUIFER BOUNDARY--delineates aquifer material in study area dashed where approximately located

DRAINAGE DIVIDE--approximates the ground-water divide

00481000 COMMUNITY WATER SYSTEM WELL OR WELL FIELD--numbered by New York State Department of Health

02-32 WELL OR TEST HOLE--with seconds of latitude-longitude from well numbered by U.S Geological Survey used to draw "Geologic Sections," sheet 2

X WELL OR TEST HOLE--used for control

NOTE

Aquifer thickness represents the estimated saturated thickness of permeable sediments from the water table to the top of the till or bedrock. The sediments range from very fine sand to coarse gravel. Discontinuous deposits of lake silt and clay in the aquifer material and for convenience are considered part of the aquifer. For example, near Lake Neatahwanta, Fulton city wells tap a coarse gravel aquifer at a depth of 40 feet, below a lake silt and clay unit.

Relatively thick units of gravel occur along the Oswego River and are tapped by the Fulton well field and Great Bear wells (east of the river, south of Fulton). Hydraulic continuity between the river and gravel is excellent. See also the geologic sections on Sheet 2.

SCALE 1:24 000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

LOCATION OF AREA

BASE FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION BALDWINSVILLE, N.Y., 1978; FULTON, N.Y., 1975; HANNIBAL, N.Y., 1974; LYSANDER, N.Y., 1978; AND PENNELLVILLE, N.Y., 1975; 1:24,000

GEOHYDROLOGY OF THE GLACIOLACUSTRINE AQUIFER IN THE FULTON AREA, OSWEGO COUNTY, NEW YORK

HYDROLOGY MAPPED IN 1981

1982