DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
NEW YORK STATE DEPARTMENT OF HEALTH

OPEN-FILE REPORT 82-114
(SHEET 3 OF 6)

AQUIFER THICKNESS

By
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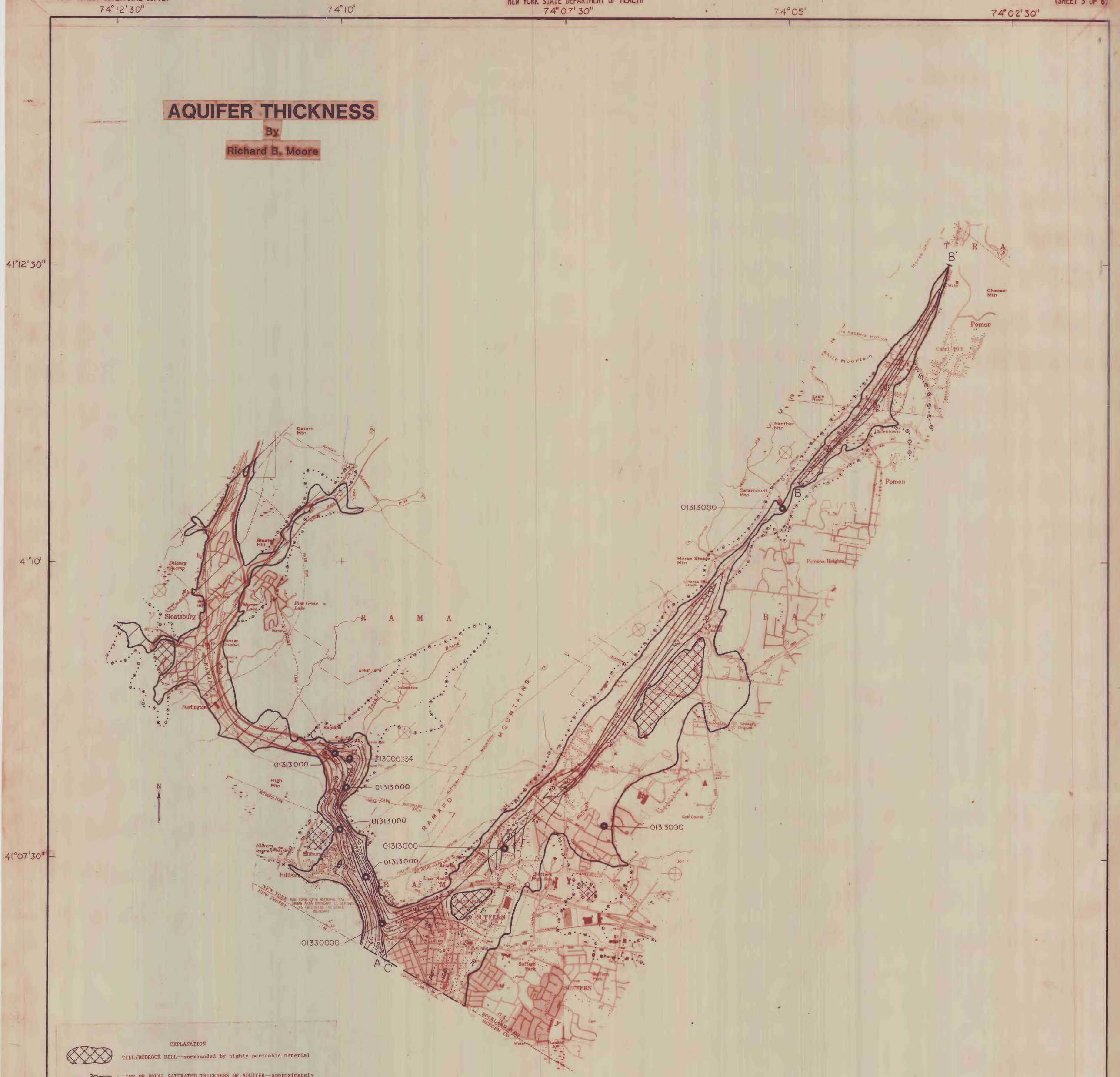


EXPLANATION

TILL/BEDROCK HILL--surrounded by highly permeable material

20 — LINE OF EQUAL SATURATED THICKNESS OF AQUIFER--approximately located, dotted where inferred. Contour interval 20 feet.

AREAS OF INSUFFICIENT DATA

AQUIFER BOUNDARY--dashed where full extent of aquifer is not shown

BOUNDARY OF HIGH PERMEABILITY MATERIAL ADJACENT TO THE AQUIFER--aquifer may partly extend into these areas

A——A' LINE OF SECTION--shown on sheet 1, "Surficial Geology and Geologic Sections"

01330000 COMMUNITY WATER SYSTEM WELL OR WELL FIELD--numbered by New York State Department of Health (number may be same for widely scattered sites in same system)

X DATA POINT--well or test hole (Data points are too numerous to show on map along Ramapo river valley 0.5 to 2 miles upstream from the New Jersey border.)

NOTE

Contours represent the estimated total thickness of saturated sand and gravel from the water table down to till or bedrock of relatively low permeability. The sediments range from very fine sand to coarse gravel with a few lenses of silt and clay.

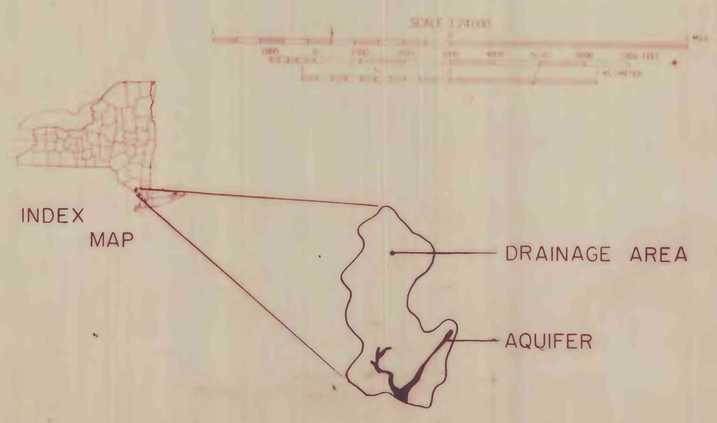
The inferred, dotted contours are drawn to indicate saturated thickness of sediments within a channel in the bedrock surface. The size and location of the buried channel is merely inferred.

REFERENCES CITED

Leggette, Brashears, and Graham, Inc., unpublished well and test hole data.

New York State Department of Transportation, unpublished test hole data.

Perlmutter, N. M., Geology and ground-water resources of Rockland County, New York, with special emphasis on the Newark Group (Triassic): New York State Water Power and Control Commission Bulletin GW-42, 133 p.



BASE FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PARK RIDGE, N.J.-N.Y., 1977; RAMSEY, N.J.-N.Y., 1973;
SLOATSBURG, N.Y.-N.J., 1973; THIELLS, N.Y., 1977.
1:24,000

GEOHYDROLOGY OF THE VALLEY-FILL AQUIFER IN THE RAMAPO AND MAHWAH RIVERS AREA, ROCKLAND COUNTY, NEW YORK

1982

HYDROLOGY MAPPED IN 1981