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MAP SHOWING DISTRIBUTION AND ESTIMATED THICKNESS OF
ALLUVIAL DEPOSITS IN THE PHOENIX AREA, ARIZONA

Compiled by M. E. Cooley

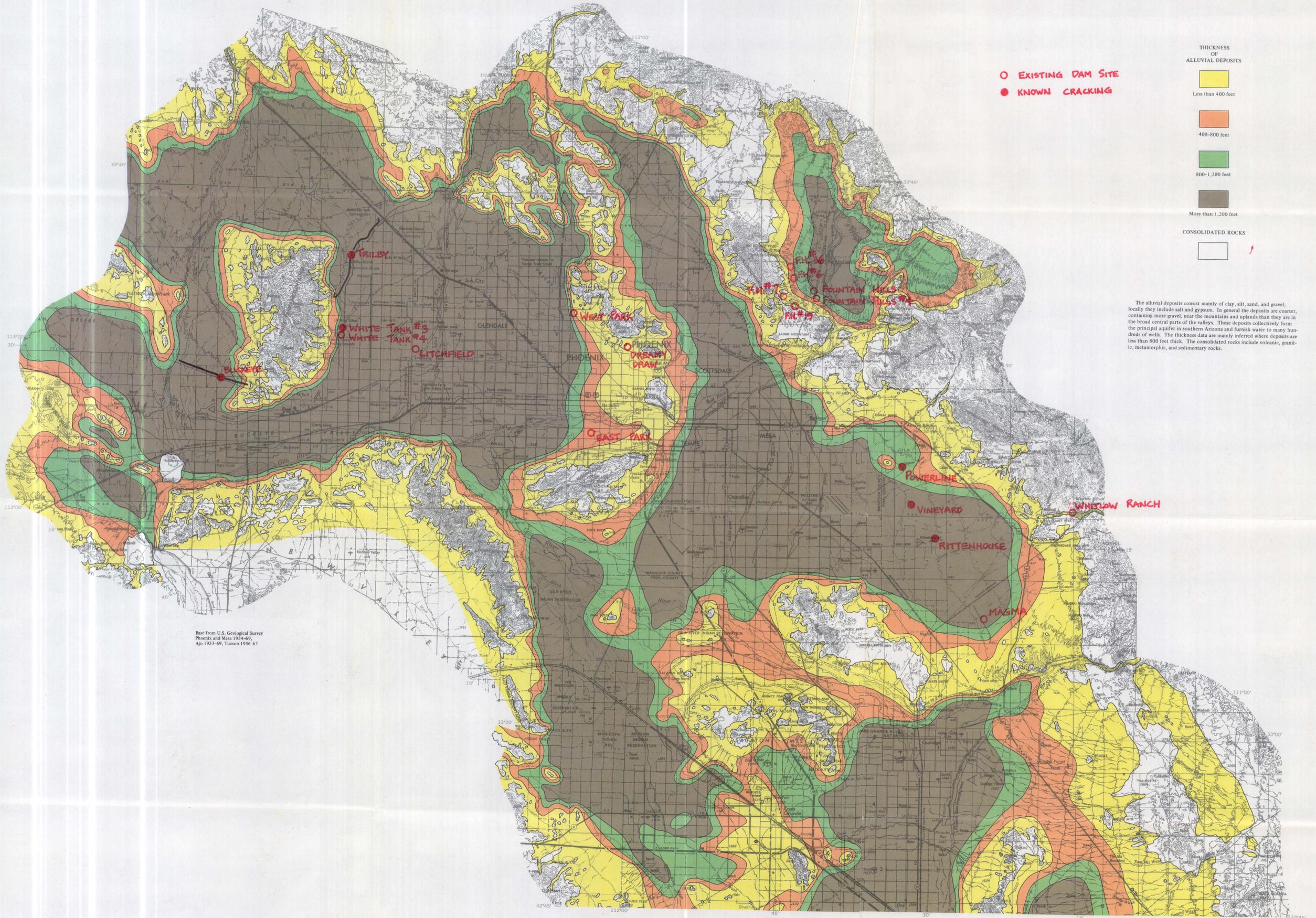
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COOLEY - THICKNESS OF ALLUVIAL DEPOSITS, TUCSON AREA, ARIZ. 1:250,000 MAP I-845-C

~~(2 of 2)~~

MISCELLANEOUS INVESTIGATIONS SERIES
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805.051



○ EXISTING DAM SITE
● KNOWN CRACKING

THICKNESS OF ALLUVIAL DEPOSITS

Less than 400 feet

400-800 feet

800-1,200 feet

More than 1,200 feet

CONSOLIDATED ROCKS

The alluvial deposits consist mainly of clay, silt, sand, and gravel; locally they include salt and gypsum. In general the deposits are coarser, containing more gravel, near the mountains and uplands than they are in the broad central parts of the valleys. These deposits collectively form the principal aquifer in southern Arizona and furnish water to many hundreds of wells. The thickness data are mainly inferred where deposits are less than 800 feet thick. The consolidated rocks include volcanic, granitic, metamorphic, and sedimentary rocks.

Base from U.S. Geological Survey
Phoenix and Mesa 1954-69
Alp 1953-69, Tucson 1956-62

SCALE 1:250 000

0 5 10 15 MILES

0 5 10 15 KILOMETERS

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100-FOOT INTERVALS
DATUM IS MEAN SEA LEVEL
1973 MAGNETIC DECLINATION VARIES FROM 14°00' TO 13°00' EAST

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Interior—Geological Survey, Washington, D.C.—1973—R73328

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