



EXPLANATION

Qul
Alluvial and coastal deposits
Sand, gravel, and silt in stream channels and beneath flood plains; silt, clay, sand, and gravel along and near the coast. Coarser materials highly permeable to water.

Qs
Dune sand
In places underlain by Pleistocene beach deposits.

UNCONFORMITY

Qpu
Terrace cover
Reddish-brown sand, sandstone, and probably largely continental.

False Verdes sand
Sand and some silt, gravel, fossiliferous and marine; moderately permeable but largely above water table; crops out only locally at edge of mesa, in road cuts, and in gravel pits.

Unnamed deposits
Silt, sand, and gravel; moderately permeable to water; inferred to crop out only locally at edge of mesa.

LOCAL UNCONFORMITY

Qsp
San Pedro formation
Sand, gravel, silt, and clay; includes Timsa from silt and Loma, most members of base. Thick bodies of sand and gravel yield water especially in many wells.

UNCONFORMITY

Tu
Consolidated rocks
Siltstone, mudstone, diatomite, shale, sandstone, and conglomerate of Tertiary age, undivided; in water-bearing properties described in text. In extreme northern part of area, granite and granodiorite, coarse conglomerate, sandstone, and shale of pre-Tertiary age, undivided; in essentially non-water-bearing.

T
Trace of fault
Dashed where inferred, dotted where concealed by deposits of Recent age; U, upthrown side; D, downthrown side.

Exposed or inferred contact

.....
Approximate location of ground-water barrier not related to known faults

---+---
Crest of anticline
Dashed where uncertain

---+---
Trough of syncline
Dashed where uncertain

---+---
Strike and dip of bed

---+---
Contours on base of water-bearing zones of Pleistocene age, in feet below sea level
Above sea level at and north of the Redondo Hills, as indicated, contour interval 100 feet

●
Active well or open casing
Numbers indicate location, as explained in text

○
Abandoned well
Numbers indicate location, as explained in text

Boundary of coastal zone of Torrance-Santa Monica area

Boundary of area in which locations of wells were verified in field

GEOLOGIC MAP OF THE TORRANCE-SANTA MONICA AREA, CALIFORNIA, SHOWING ALTITUDE OF BASE OF THE WATER-BEARING ZONES OF PLEISTOCENE AGE AND LOCATION OF WELLS (NORTHERN HALF)

Scale 1:31,680
Contour interval 5 feet
Datum is mean sea level