



EXPLANATION
CORRELATION OF MAP UNITS

Qaf	Qt	Qya	Qya2	Qya1	Qds	} Holocene	} QUATERNARY
Qia	Qoa	Qoa1					
Kg	Kgd	Kgd1	Kd	Kd1	Kd	} CRETACEOUS	
s	m	a				} PRE-CRETACEOUS(?)	

DESCRIPTION OF MAP UNITS

- Qaf ARTIFICIAL FILL—Uncompacted fill from mining operations and solid-waste disposal
- Qt TALUS—Unconsolidated talus deposits in Crestmore quarry area
- Qya YOUNGER ALLUVIUM—Unconsolidated grayish sandy alluvium along Santa Ana River. Subject to reworking by stream flow
- Qya2 YOUNGER ALLUVIUM—Unconsolidated grayish sandy alluvium along Santa Ana River and north side of Jurupa Mountains. Alluvium along Santa Ana River not subject to reworking by stream flow. Alluvium on north side of Jurupa Mountains includes large areas of fine-grained windblown sand
- Qya1 YOUNGER ALLUVIUM—Unconsolidated grayish cobbly and bouldery alluvium of Lytle Creek fan. Relatively fine-grained (pebbly and cobbly) in southern extent; becomes coarser grained (cobbly and bouldery) northward
- Qds DUNE SAND—Unconsolidated grayish to tannish massive fine-grained sand forming stabilized dunes. May include some deposits of Pleistocene age
- Qia ALLUVIUM OF INTERMEDIATE AGE—Unconsolidated tannish cobbly and bouldery alluvium. Occurs as slightly raised deposits through the younger Lytle Creek fan (Qya1). May include some deposits of Holocene age
- Qoa OLDER ALLUVIUM—Mainly indurated tannish to brown sandy to pebbly and cobbly clay-bearing older alluvium. Locally underlain by unconsolidated gray cobbly alluvium
- Qoa1 OLDER ALLUVIUM—Patches of indurated brown pebbly and cobbly clay-bearing alluvium perched in the Jurupa Mountains
- Kg GRANITE—Coarse-grained to pegmatitic off-white biotite granite dikes
- Kgd GRANODIORITE—Medium- to coarse-grained porphyritic gray granodiorite. Generally massive to poorly foliated; contains local schlieren, elongate dark inclusions, and small septa of schist
- Kgd1 GRANODIORITE—Medium- to coarse-grained, equigranular to porphyritic heterogeneous granodiorite and lesser amounts of quartz monzonite and quartz diorite. Contains locally abundant inclusions and schist septa
- Kqd QUARTZ DIORITE—Mainly coarse-grained equigranular gray biotite-hornblende quartz diorite. Generally foliated and contains widespread dark ellipsoidal inclusions
- Kqd QUARTZ DIORITE—Mainly heterogeneous coarse-grained equigranular gray biotite-hornblende quartz diorite and hornblende quartz diorite and common hornblende diorite. Contains widespread and locally abundant dark inclusions
- Kd DIORITE—Mainly coarse-grained equigranular dark-gray hornblende diorite
- Kgb GABBRO—Mainly coarse-grained to locally pegmatitic black hornblende gabbro
- s SCHIST—Mainly interlayered biotite schist and quartzite. Layers mainly one to several centimeters thick. Locally discontinuous calc-silicate-rich amphibolite layers
- m MARBLE—Mainly coarse-grained off-white marble with included masses of calc-silicate rock
- a AMPHIBOLITE—Coarse-grained poorly foliated black amphibolite

Symbols

- Contact. Solid where accurately located; dashed where approximately located
- Strike and dip of foliation and/or layering in plutonic rocks
 - Inclined
 - Vertical
- Strike and dip of foliation and/or layering in metamorphic rocks
 - Inclined
 - Vertical
- Bearing and plunge of minor fold axis in metamorphic rock
- Bearing and plunge of mineral lineation in plutonic or metamorphic rock
- Vertical mineral lineation
- Granitic dike, showing dip

GEOLOGIC MAP OF THE FONTANA QUADRANGLE, SAN BERNARDINO
AND RIVERSIDE COUNTIES, CALIFORNIA

By
Douglas M. Morton
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This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.