

Geologic Map of the Proposed State Route 95 Realignment Corridor, Mohave Valley, Arizona

Sheet 4 of 5: Parts of the Davis Dam SE
and Oatman Quadrangles

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Arizona Geological Survey Digital Geologic Map 65
(DGM 65)

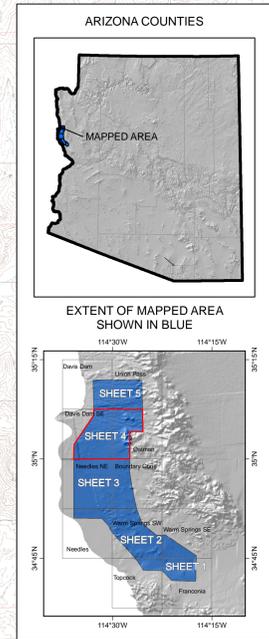
1:24,000 scale

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Map Unit Descriptions

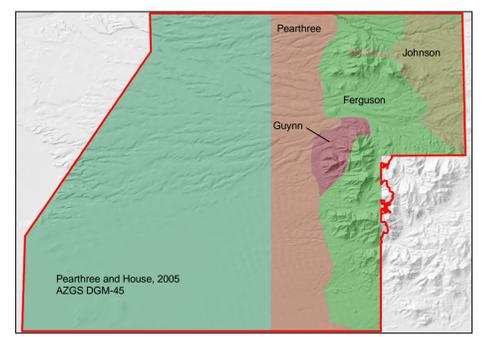
Piedmont Deposits		Bedrock Units	
Qy	Late Holocene alluvium - Sand and gravel deposits in modern tributary channels, bars, low terraces, and alluvial fans	Clc	Hillside colluvium and talus - Very poorly sorted, angular, weakly bedded, hillside deposits associated with bedrock hills
Qy	Early to late Holocene alluvium - Sand, gravel and silt deposits associated with low terraces and recently active alluvial fans	d	Profoundly disturbed areas - Mines, tailings or ponds, and paved roads
Qys	Holocene reworked sand and fine gravel deposits - Young sand and fine gravel deposits derived from older Colorado River deposits	Tb	Basalt lava (Miocene) - Basaltic and andesitic basalt lava
Qy	Holocene alluvium - Holocene sand, gravel and silt deposits, undifferentiated	Tl	Nonwelded felsic tuff (Miocene) - Nonwelded, massive to thick-bedded felsic tuff
Qyl	Early Holocene to late Pleistocene alluvium - Sand, gravel and silt associated with the youngest intermediate terraces	Tdk	Phenocryst-rich dacitic lava (Miocene) - Phenocryst-rich plagioclase, biotite-phyric dacitic lava typically with dark vitric matrix
Qli	Late Pleistocene alluvium - Younger intermediate terraces and sand and silt deposits associated with inactive alluvial fans and terraces	Tdp	Phenocryst-poor rhyolite lava (Miocene) - Phenocryst-poor lava containing <7% feldspar, quartz, and sparse biotite phenocrysts
Qli	Older late Pleistocene alluvium - Intermediate-age gravel, sand and silt deposits associated with extensive relict alluvial fans and terraces	Tqk	Quartz-feldspar porphyry dikes (Miocene) - Porphyry dikes containing euhedral K-feldspar and minor anhedral quartz phenocrysts in an aphanitic groundmass
Qli	Middle Pleistocene alluvium - Oldest intermediate sand, gravel and silt alluvial fan deposits	Tm	Mafic feldspar porphyry dikes (Miocene) - Mafic feldspar porphyry dikes containing feldspar phenocrysts and altered mafic minerals in a medium to dark green aphanitic groundmass
Ql	Middle and late Pleistocene alluvium - Middle and late Pleistocene tributary deposits, undifferentiated	Tk	Feldspar porphyry dikes (Miocene) - Porphyry dikes containing euhedral K-feldspar and minor anhedral quartz phenocrysts in an aphanitic groundmass that ranges from light gray to tan to white
Qo	Early Pleistocene alluvium - Gravel, sand, and silt deposits with strong calcic soil development associated with high relict alluvial fans	Tg	Quartz monzonite and granite porphyry (Miocene) - Felsic porphyry containing euhedral feldspar with fine-grained granitic matrix and sparse, typically hematite altered mafics
QTA	Middle Pliocene to early Pleistocene alluvium - Coarse gravel and sand deposits capping the highest ridges and fan remnants in the upper and middle piedmont, typically with strongly cemented calcic soils	Tgm	Quartz monzonite (Miocene) - Quartz monzonite to quartz monzonite
Tm	Middle Pliocene Nomiaki tephra	Tps	Peach Spring Tuff (Miocene) - Moderately phenocryst-rich, 2 feldspar, biotite ash-flow tuff
Tl	Pliocene Lower Nomiaki tephra	Tpsb	Peach Spring Tuff megabreccia (Miocene) - Zones within the Peach Spring Tuff containing felsic lithic blocks making up >25% of the tuff
Tlb	Late Miocene and Pliocene Black Mountain fan deposits	Tpsd	Peach Spring Tuff dacitic megabreccia (Miocene) - Zones within the Peach Spring Tuff containing dacitic lithic blocks making up >25% of the tuff
Colorado River Deposits		Tpsc	Peach Spring Tuff conglomeratic megabreccia (Miocene) - Zones within the Peach Spring Tuff containing conglomeratic lithic blocks making up >25% of the tuff
Qcr	Historical flood channel and floodplain deposits - Sand, silt, and gravel deposits associated with the historical flood channels and floodplain of the Colorado River	Tpsg	Peach Spring Tuff granitic megabreccia (Miocene) - Zones within the Peach Spring Tuff containing granitic lithic blocks making up >25% of the tuff
Qcr1	Late Holocene river floodplain deposits - Sand, silt, and gravel deposits associated with low terraces and relict point bars	Tpsp	Peach Spring Tuff andesitic megabreccia (Miocene) - Zones within the Peach Spring Tuff containing andesitic lithic blocks making up >25% of the tuff
Qcr2	Late Pleistocene to early Holocene Colorado River deposits - Sand and gravel deposits associated with low inset terraces along the margins of the Colorado River floodplain	Tp	Heterolithic breccia (Miocene) - Breccia composed of boulders and cobbles of a variety of feldspar-porphyratic rocks
Qcr3	Younger late Pleistocene Colorado River deposits - Sand and gravel deposits associated with a young intermediate terrace along margin of the Colorado River floodplain	Td	Dacitic lava (Miocene) - Dark-colored, phenocryst-rich dacitic lava flows containing euhedral plagioclase, euhedral biotite and chlorite altered mafic phenocrysts
Qch	Older late Pleistocene Chemehuevi deposits	Tso	Sandstone and conglomerate (Miocene) - Argillaceous sandstone and conglomerate interbedded with black mudstone, siltstone and fine-grained sandstone
Tb	Early Pliocene Bullhead alluvium - Weakly to moderately indurated river sand, gravel and minor silt with a substantial component of tributary sand and gravel	Ygs	Coarse-grained granite (Proterozoic) - Coarse-grained to megacrystic biotite granite
Tbo	Latest Miocene-Early Pliocene Bouse Formation - Pale white to buff-colored marl, siltstone, clay, and sandstone	Ygn	Fine- to medium-grained granite and gneissic granite (Proterozoic) - Foliated, fine- to medium-grained granite with minor mafics (mostly biotite)
Other Units			
Qe	Holocene eolian sand deposits - Well-sorted sand dune deposits		



MAP SYMBOL EXPLANATION

Contacts	Faults	Structural Measurements
— accurate contact	— fault, accurate	/ bedding, inclined
- - - approximate contact	- - - fault, approximate	/ bedding, tops known
 fault, concealed	⊠ eutaxitic foliation, inclined
	1/2 fault attitude	∩ flow foliation, inclined
— highway alignments	∧ prospect pit	z gneissic foliation
— map sheet boundary	» mine shaft	∨ overturned bedding
		∖ quartz vein

MAPPING SOURCES



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