SURFICIAL GEOLOGIC MAP OF RAINBOW VALLEY, MARICOPA COUNTY, ARIZONA

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Arizona Geological Survey Digital Geologic Map 71 (DGM-71), version 1.0

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(Funding provided by the Flood Control District of Maricopa County and the Arizona Geological Survey)

Sonoran Desert National Monument

Map Unit Descriptions

Piedmont Deposits

- Qyr — **Channels of large tributary washes** - Moderately sorted sand, pebbles, silt, cobbles and some small boulders in channels and bars of larger tributary washes
- Qyr2 — **Smaller active channels, bars and low terraces** - Poorly sorted sand, silt, pebbles, cobbles with some small boulders in small channels, bars, and adjacent low terraces and sheetflood areas
- Qyr1 — **Swales, sheetflood areas, and minor channels** - Moderately sorted silt, sand, minor pebbles and cobbles associated with swales and sheetflood areas
- Qyaf — **Potentially active alluvial fans** - Very poorly-sorted sand, pebbles, cobbles and silt, with some boulders associated with young alluvial fans
- Qyr — **Holocene inactive alluvial fans and terraces** - Moderately-sorted silt, sand, pebbles and cobbles with open to moderately packed pebble surface lags
- Qye — **Holocene eolian deposits over inactive alluvial fans** - Sand, silt and clay eolian deposits over moderately sorted sand, silt, pebbles and cobbles
- Qy — **Holocene sheetflood areas and terraces, undivided**
- Qyi — **Holocene and Pleistocene alluvium in sheetflood areas** - Fine-grained, thin, discontinuous Holocene deposits over late to middle Pleistocene alluvium
- Qiy — **Pleistocene and Holocene deposits on inactive alluvial fans** - Gravelly, varnished Pleistocene deposits with finer-grained Holocene deposits in low areas on inactive alluvial fans and piedmont slopes
- Qls — **Late Pleistocene alluvial fans and terraces** - Moderately dissected, gravelly relict alluvial fans with weak to moderate soil development
- Qls — **Middle Pleistocene alluvial fans** - Dissected gravelly relict alluvial fan deposits with moderate to strong soil development
- Qi — **Pleistocene alluvial fans and terraces, undivided** - Sand, gravel, silt and clay deposits on relict alluvial fans and terraces
- Qo — **Early Pleistocene alluvial fans** - Deeply dissected pebble, cobble, sand and small boulders with variable soil development
- QTa — **Late Tertiary to early Quaternary deposits** - Deeply dissected conglomerates and sandstones indurated with a reddish hematite and carbonate matrix

Axial Valley Deposits

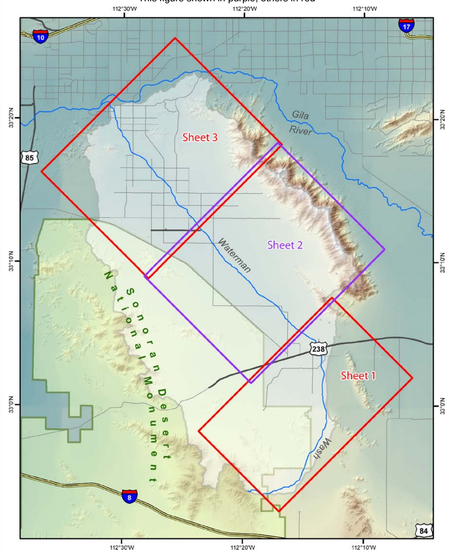
- Qyr — **Modern river channels** - Unconsolidated sand and pebbles in active channels of Waterman Wash and West Prong
- Qyr — **Modern river terraces and bars** - Unconsolidated sand, silt and minor gravel deposits on young terraces and bars in and along the active channels of Waterman Wash and West Prong
- Qyr — **Holocene river terraces** - Young river terrace deposits of Waterman Wash and West Prong

Other Units

- dt — **Ditches and tanks** - Areas altered by excavation of ditches, stock tanks and ponds
- **Bedrock, colluvium and talus** - Bedrock outcrops, very poorly sorted angular colluvium, and coarse, angular talus cobbles and boulders
- d — **Profoundly disturbed areas** - Landfills and aggregate pits

Location Map

Complete study area shown in white
This figure shown in purple, others in red



Map Symbols

- accurate contact
- approximate contact
- gradational contact
- extent of mapped area
- Sonoran Desert National Monument boundary

1:24,000 Scale

1 0.5 0 1 Miles

1 0.5 0 1 Kilometers

0 1000 2000 3000 4000 5000 Feet

Topographic base from USGS 1:24,000-scale Quadrangle Series.
Seamless basemap generated using iGage All Topo Pro Software.
Hillshade generated automatically from NED 10m resolution Digital Elevation Model.

Projection Information:
North American Datum of 1983.
1000-meter Universal Transverse Mercator grid tics, zone 11, shown in blue.

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