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

Sheet 2 of 5: Parts of the Needles, Topcock and Warm Springs SW Quadrangles

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Arizona Geological Survey Digital Geologic Map 65
(DGM 65)

1:24,000 scale

June 2009

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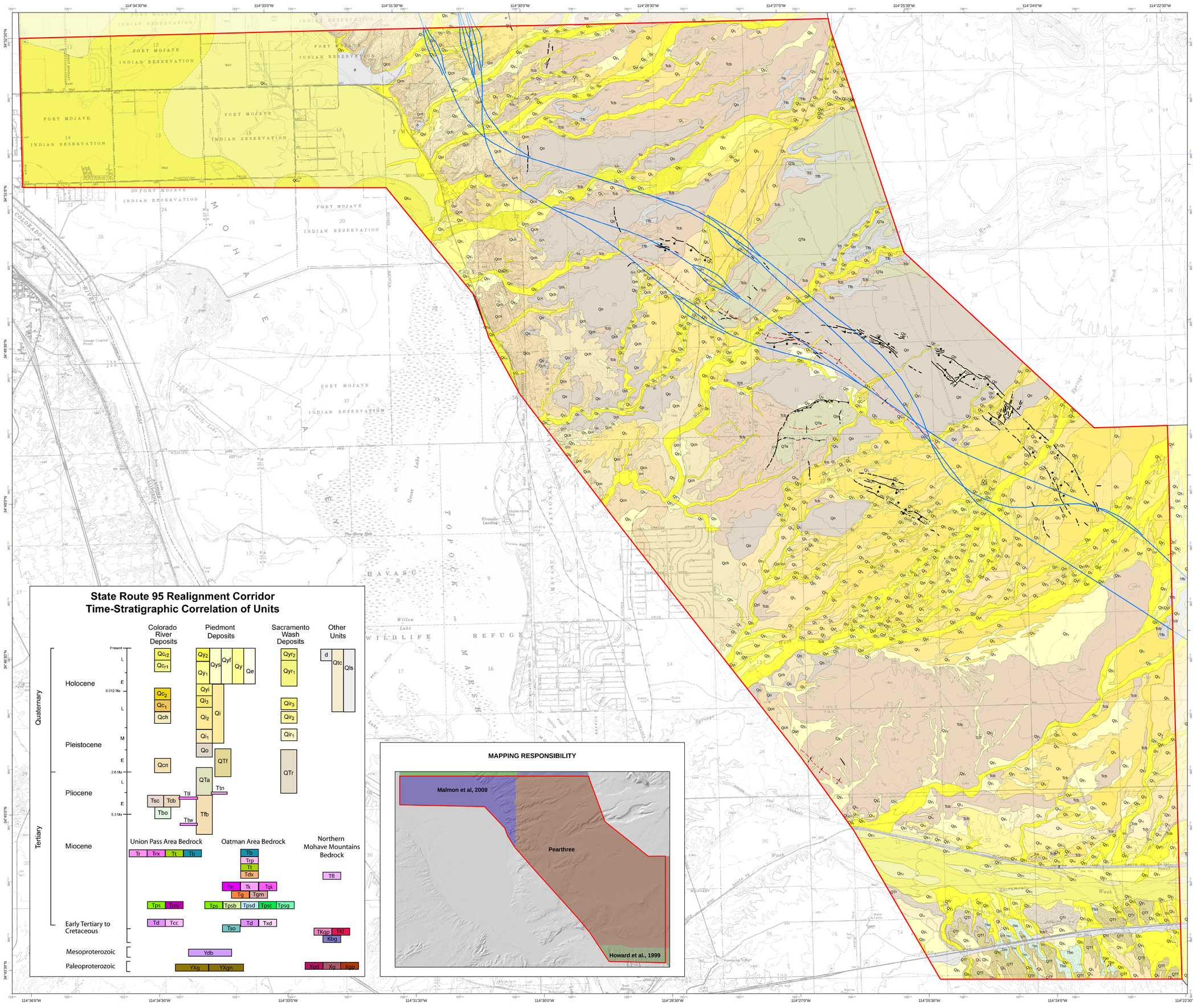


Map Unit Descriptions

Piedmont Deposits

- **Qy1** — **Late Holocene alluvium** - Sand and gravel deposits in modern tributary channels, bars, low terraces, and alluvial fans
- **Qy1** — **Early to late Holocene alluvium** - Sand, gravel and silt deposits associated with low terraces and recently active alluvial fans
- **Qyf** — **Fine-grained Holocene deposits** - Fine-grained deposits consist primarily of gray silt, with lesser amounts of sand and clay
- **Qys** — **Holocene reworked sand and fine gravel deposits** - Young sand and fine gravel deposits derived from older Colorado River deposits
- **Qyi** — **Early Holocene to late Pleistocene alluvium** - Sand, gravel and silt associated with the youngest intermediate terraces
- **Qi3** — **Late Pleistocene alluvium** - Younger intermediate gravel and sand deposits associated with inactive alluvial fans and terraces
- **Qi2** — **Older late Pleistocene alluvium** - Intermediate-age gravel, sand and silt deposits associated with extensive relict alluvial fans and terraces
- **Qi1** — **Middle Pleistocene alluvium** - Oldest intermediate sand, gravel and silt associated with relict alluvial fans and terraces
- **Qi** — **Middle and late Pleistocene alluvium** - Middle and late Pleistocene tributary deposits, undifferentiated
- **Qo** — **Early Pleistocene alluvium** - Gravel, sand, and silt deposits with strong calcic soil development associated with high relict alluvial fans
- **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
- **QTf** — **Pliocene to Pleistocene deposits derived from the Mohave Mountains** - Gravelly fan deposits derived from northernmost Mohave Mountains
- **Ttb** — **Late Miocene and Pliocene Black Mountain alluvial fan deposits** - Moderately indurated tributary-fan gravel and sand deposits forming high, eroded ridges

Colorado River Deposits

- **Qcr2** — **Historical flood channel and floodplain deposits** - Sand, silt, and gravel deposits associated with the historical flood channels and floodplain of the Colorado River
- **Qcr1** — **Late Holocene river floodplain deposits** - Sand, silt, and gravel deposits associated with low terraces and relict point bars
- **Qch** — **Late Pleistocene Chemehuevi deposits** - Tan to light reddish-brown, clay, silt, sand and minor gravel deposits
- **Qcn** — **Middle to early Pleistocene river deposits** - Cross-bedded to planar sand beds, rounded to subangular gravel, silt and clay deposits
- **Tcb** — **Early Pliocene Bullhead alluvium** - Weakly to moderately indurated river sand, gravel and minor silt with a substantial component of tributary sand and gravel
- **Tbo** — **Latest Miocene-Early Pliocene Bouse Formation** - Pale white to buff-colored marl and calcareous siltstone, clay, and sandstone

Sacramento Wash Deposits

- **Qyr2** — **Late Holocene channel and bar deposits** - Late Holocene sand, gravel, and minor silt deposits associated with active channels and bars of Sacramento Wash
- **Qyr1** — **Holocene floodplain and terrace deposits** - Holocene sand, gravel and silt deposits associated with the floodplain and low terraces of Sacramento Wash
- **Qir3** — **Younger late Pleistocene terrace deposits** - Gravel, sand and silt deposits associated with low intermediate terraces of Sacramento Wash
- **Qir2** — **Older late Pleistocene terrace deposits** - Gravel, sand and silt deposits associated with intermediate terraces of Sacramento Wash
- **Qir1** — **Middle(?) Pleistocene terrace deposits** - Gravel, sand and silt deposits associated with the highest preserved terraces of Sacramento Wash
- **QTr** — **Pliocene or Pleistocene deposits** - Old sand and gravel deposits of Sacramento Wash

Other Units

- **d** — **Profoundly disturbed areas** - Mines, tailings or ponds, and paved roads

MAP SYMBOL EXPLANATION

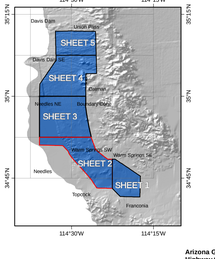
Contacts	Faults
accurate contact	fault, laccurate
approximate contact	fault, approximate
gradational contact	fault, concealed
highway alignments	map sheet boundary

State Route 95 Realignment Corridor Time-Stratigraphic Correlation of Units

MAPPING RESPONSIBILITY

ARIZONA COUNTIES

EXTENT OF MAPPED AREA SHOWN IN BLUE



SCALE 1:24,000

1 0.5 0 1 Miles

0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 Feet

1 0.5 0 1 Kilometers

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