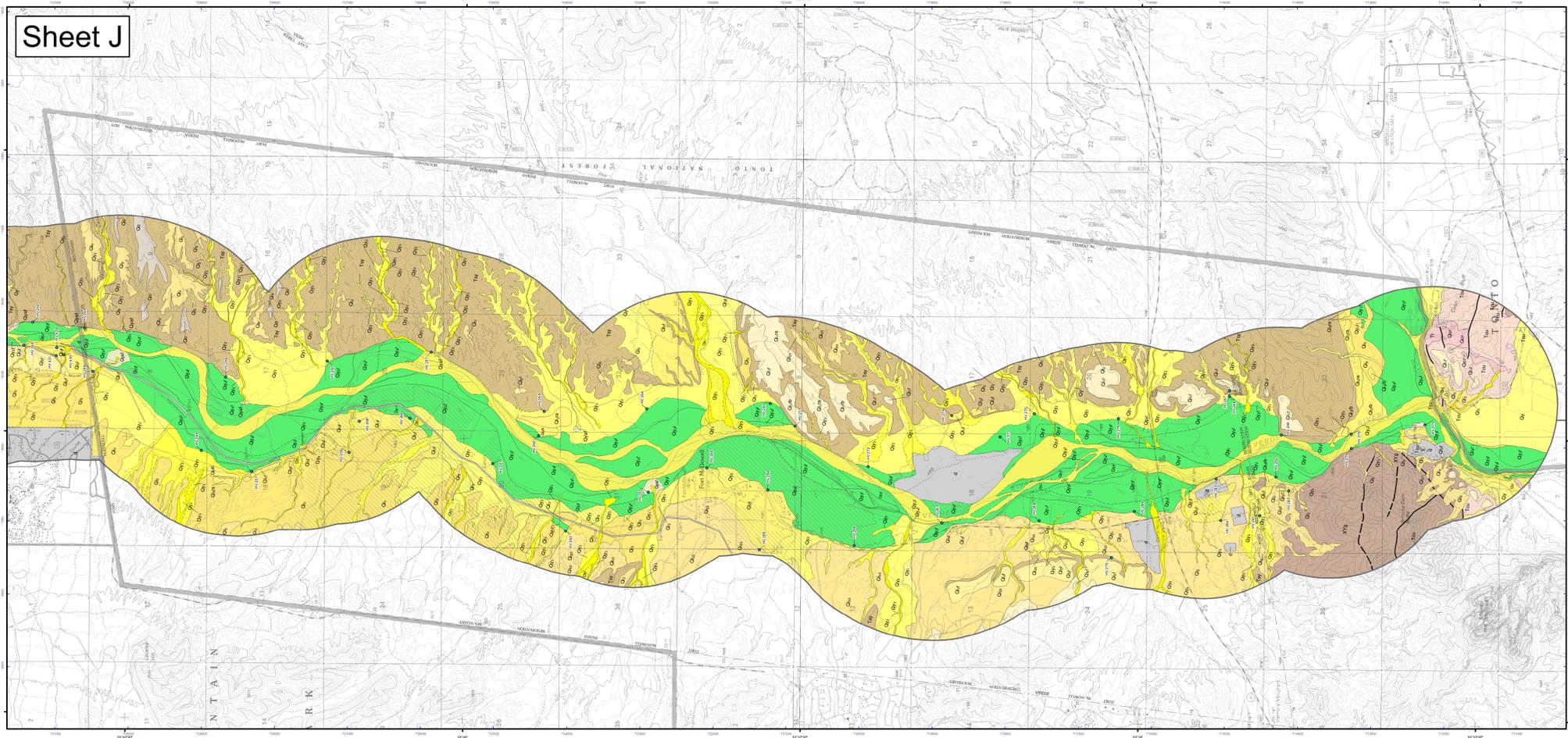
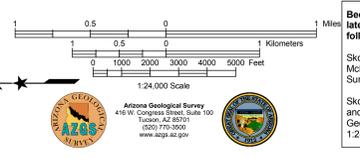


Sheet J



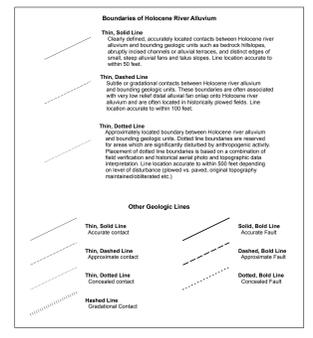
Map Unit Descriptions

- Other Units**
- d** Flooded areas - historically or actively flooded fields, irrigated pastures, and other lightly disturbed ground
 - h** Disturbed ground - heavily disturbed ground due to agriculture, extensive excavation, mining activity, or construction of earth dams
- River Alluvium**
- Qva** Active river channel deposits - unconsolidated, very poorly sorted sandy to cobbly beds in active river channels
 - Qvc** Flood channel and low terrace deposits - unconsolidated sand, gravel and silt deposits on bars, low terraces and flood channels
 - Qv** Historical river terrace deposits - unconsolidated sand, gravel and silt deposits on low terraces that were abandoned early in the Holocene
 - Qv1** Late Holocene to historical river terrace deposits - silt, clay, sand and minor gravel terrace deposits slightly above the early historical floodplain
 - Qv2** Late to early Holocene river terrace deposits - silt, clay, sand and minor gravel terrace deposits up to 25 m above the active river channel
 - Qv3** Late Pleistocene river terrace deposits, younger member - gravely, sandy river terrace deposits up to 25 m above the active river channel
 - Qv4** Late Pleistocene river terrace deposits, older member - gravely, sandy river terrace deposits up to 25 m above the active river channel
 - Qv5** Middle to late Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits
 - Qv6** Middle to late Pleistocene river terrace deposits, younger member - high-standing, gravely, sandy river terrace deposits
 - Qv7** Middle Pleistocene river terrace deposits, older member - high-standing, gravely, sandy river terrace deposits
 - Qv8** Middle Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits
 - Qv9** Early Pleistocene river terrace deposits, undivided - Well rounded indurated pebbles in cobbles river gravels
- Piedmont Alluvium**
- Qp** Modern stream channel deposits - active channel deposits composed of very poorly sorted sand, pebbles, and cobbles with some boulders to moderately sorted sand and pebbles
 - Qpa** Late Holocene alluvium - unconsolidated, very poorly sorted silt to cobbly low terrace and overbank channel deposits
 - Qpb** Late Holocene alluvium, active fan deposits - active portions of young fan deposits exhibiting distributary drainage patterns
 - Qpc** Late Holocene alluvium - plane terrace deposits located along incised channels, broad level terraced fan deposits overlapping onto Holocene river alluvium, and infrequently active tributary drainage deposits
 - Qpd** Holocene alluvium - Holocene alluvium, undivided
 - Qpe** Late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with moderate soil development
 - Qpf** Middle to late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with strong soil development
 - Qpg** Middle to late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with strong soil development
 - Qph** Early Pleistocene alluvial fan deposits, undivided - High, moderately consolidated gravely deposits with strong soil development
- Conozoic Basin Deposits**
- Tm** Late Miocene to Pliocene deposits - moderately to strongly indurated conglomerate and sandstone basin fill deposits
 - Tol** Conglomerate, breccia, and sandstone undivided - Middle Tertiary interbedded red-colored, matrix supported breccia, and clast supported conglomerate, sandstone, and minor siltstone and limestone (Shapiro, 1990)
- Bedrock Units**
- Tt** Tertiary basalt, undivided - Tertiary basalt flows, associated cinder cones and pyroclastic rocks, intrusive basalts, and mafic rocks
 - Ti** Tertiary tuff, undivided - Felsic ash flow tuff, pumice, and siliceous flows
 - Tik** Tertiary intermediate volcanics, undivided - Hornblende and biotite tuffs, tephritic, dacite, andesite, and associated volcanic and sedimentary rocks
 - Xg** Proterozoic granite, undivided - Fine to coarse grained granitoids, quartz monzonite, porphyry myelite ash flows, mylonite, and gneissophyre
 - Xms** Proterozoic sedimentary, metasedimentary, and metamorphic rocks, undivided - Quartzite, sandstone, and metapelitic rocks
- Other Geologic Lines**
- Thin, Solid Line** Accretion contact
 - Thin, Dashed Line** Approximate contact
 - Thin, Dotted Line** Generalized contact
 - Thin, Dash-dot Line** Unconformity
 - Solid, Bold Line** Active Fault
 - Dashed, Bold Line** Approximate Fault
 - Dotted, Bold Line** General Fault
 - Dash-dot, Bold Line** Coarsest Fault
- Bedrock and surficial geologic mapping for areas outside the lateral limits of Holocene river alluvium was compiled from the following sources:**
- Skotnicki, S. J., 1995, Geologic map of the Fountain Hills / Mount McDowell area, Maricopa County, Arizona: Arizona Geological Survey Open-File Report 95-11, 28 p., 1 sheet, scale 1:24,000.
- Skotnicki, S. J., 1996a, Geologic map of portions of the Fort McDowell and McDowell Peak quadrangles, Maricopa County, Arizona: Arizona Geological Survey Open-File Report 96-11, 20 p., 1 sheet, scale 1:24,000.

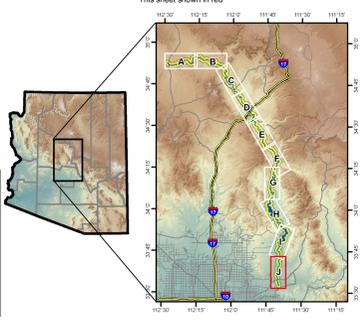


SURFICIAL GEOLOGIC MAP OF THE VERDE RIVER CORRIDOR, CENTRAL ARIZONA

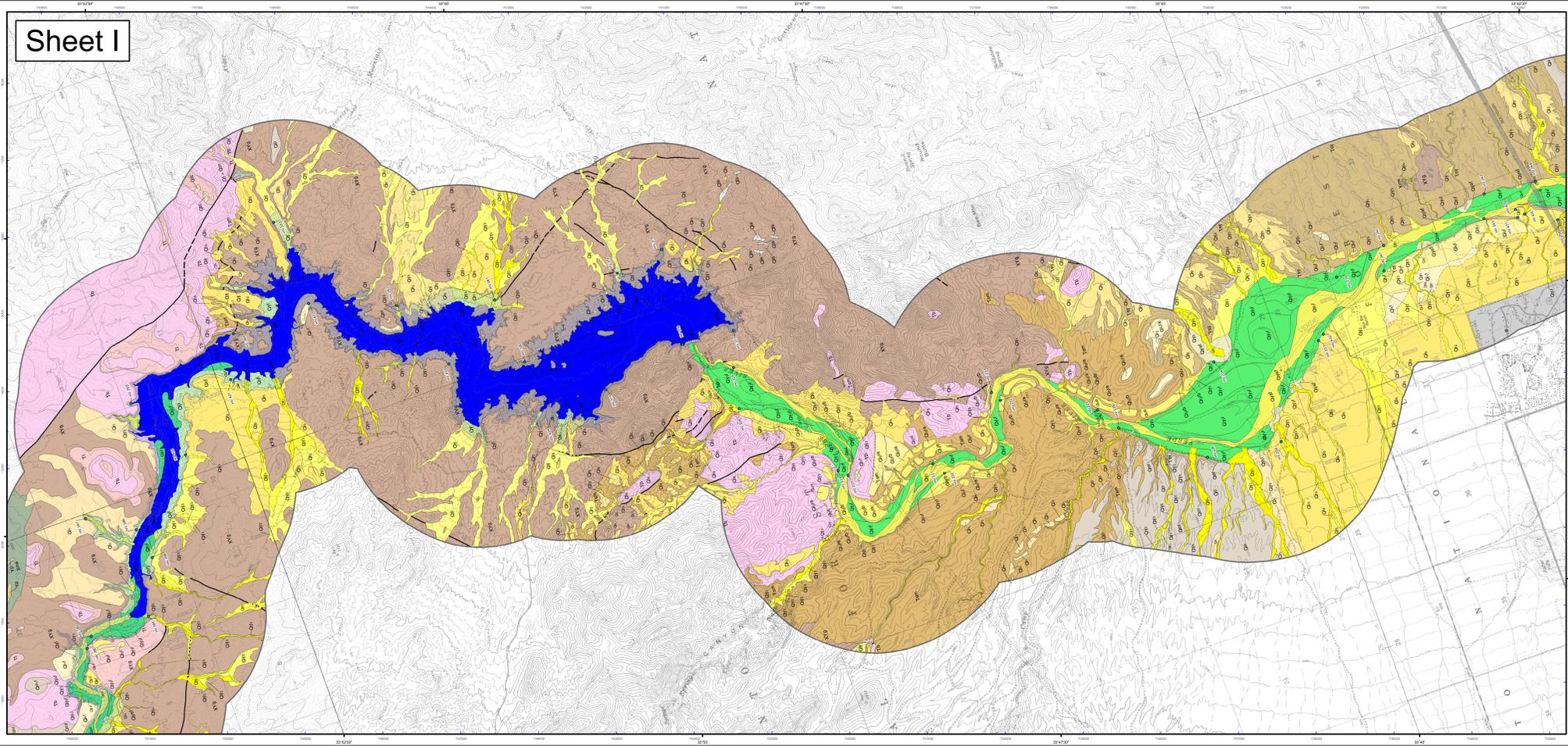
by
Cook, J.P., Bigio, E.R., Youberg, A.,
Peartree, P.A. and House, P.K.
June 2010
Arizona Geological Survey
Digital Map DM-RM-J
Funding for this project was provided by the
Arizona Department of Water Resources
USGS 24k quadrangle series topographic base maps
North American Datum of 1983. Projection and 1000-meter
grid ticks (blue). Universal Transverse Mercator, zone 12.



Location Map

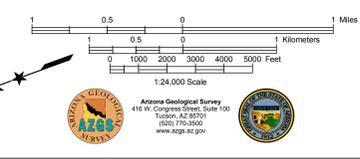


Sheet I



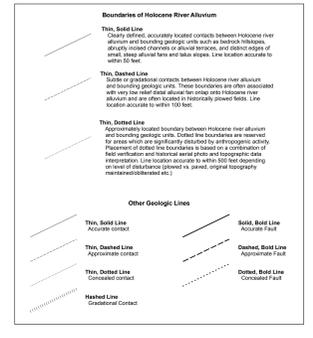
Map Unit Descriptions

- Other Units**
- W** Water - Underlying geology obscured by standing water (Pecks Lake, Horseshoe and Bartlett Reservoir)
 - S** Submerged - underlying unit submerged due to seasonal inundation in Bartlett and Horseshoe Reservoir
 - Qml** Modern lake and marsh sediments - Underlying geology obscured by lake sediments (Pecks Lake, Horseshoe and Bartlett Reservoir)
 - d** Flooded areas - historically or actively flooded fields, irrigated pastures, and other lightly disturbed ground
 - h** Disturbed ground - heavily disturbed ground due to agriculture, extensive excavation, mining activity, or construction of earth dams
 - Qta** Quaternary talus and colluvium - unconsolidated to weakly consolidated, very poorly sorted angular rock debris deposited at the base of bedrock slopes
- River Alluvium**
- Qva** Active river channel deposits - unconsolidated, very poorly sorted sandy to cobbly beds in active river channels
 - Qvc** Flood channel and low terrace deposits - unconsolidated sand, gravel and silt deposits on bars, low terraces and flood channels
 - Qv** Historical river terrace deposits - unconsolidated sand, gravel and silt deposits on low terraces that were abandoned early in the Holocene
 - Qv1** Late Holocene to historical river terrace deposits - silt, clay, sand and minor gravel terrace deposits slightly above the early historical floodplain
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 - Qv7** Middle Pleistocene river terrace deposits, older member - high-standing, gravely, sandy river terrace deposits
 - Qv8** Middle Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits
 - Qv9** Early Pleistocene river terrace deposits, younger - Very high old Verde River terrace deposits, lower level
 - Qv10** Early Pleistocene river terrace deposits, middle - Very high old Verde River terrace deposits, middle level
 - Qv11** Early Pleistocene river terrace deposits, undivided - Well rounded indurated pebbles in cobbles river gravels
- Piedmont Alluvium**
- Qp** Modern stream channel deposits - active channel deposits composed of very poorly sorted sand, pebbles, and cobbles with some boulders to moderately sorted sand and pebbles
 - Qpa** Late Holocene alluvium - unconsolidated, very poorly sorted silt to cobbly low terrace and overbank channel deposits
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 - Qpc** Late Holocene alluvium - plane terrace deposits located along incised channels, broad level terraced fan deposits overlapping onto Holocene river alluvium, and infrequently active tributary drainage deposits
 - Qpd** Holocene alluvium - Holocene alluvium, undivided
 - Qpe** Late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with moderate soil development
 - Qpf** Middle to late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with strong soil development
 - Qpg** Middle to late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with strong soil development
 - Qph** Early Pleistocene alluvial fan deposits, undivided - High, moderately consolidated gravely deposits with strong soil development
- Conozoic Basin Deposits**
- Tm** Late Miocene to Pliocene deposits - moderately to strongly indurated conglomerate and sandstone basin fill deposits
 - Tol** Oligo-Miocene deposits - Moderately to strongly consolidated conglomerate and sandstone deposited in basins during and after late Tertiary loading
- Bedrock Units**
- Tt** Tertiary basalt, undivided - Tertiary basalt flows, associated cinder cones and pyroclastic rocks, intrusive basalts, and mafic rocks
 - Ti** Tertiary tuff, undivided - Felsic ash flow tuff, pumice, and siliceous flows
 - Tik** Tertiary intermediate volcanics, undivided - Hornblende and biotite tuffs, tephritic, dacite, andesite, and associated volcanic and sedimentary rocks
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- Skotnicki, S. J., 1996, Geologic map of the Bartlett Dam quadrangle and southern part of the Horseshoe Dam quadrangle, Maricopa County, Arizona: Arizona Geological Survey Open-File Report 96-22, 21 p., 1 sheet, scale 1:24,000.
- Skotnicki, S. J., and Leighty, R. S., 1998, Geologic map of the Mavenc Mountain 7.5' quadrangle, Maricopa County, Arizona: Arizona Geological Survey Open-File Report 98-14, 18 p., 1 sheet, scale 1:24,000.
- Wrucke, C. T., and Conway, C.M., 1987 Geologic map of the Mazatzal Wilderness and contiguous Roadless Area, Gila, Maricopa, and Yavapai Counties, Arizona: U.S. Geological Survey Open-File Report 87-0664, 22 p., 1 sheet, scale 1:45,000.



SURFICIAL GEOLOGIC MAP OF THE VERDE RIVER CORRIDOR, CENTRAL ARIZONA

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Location Map

