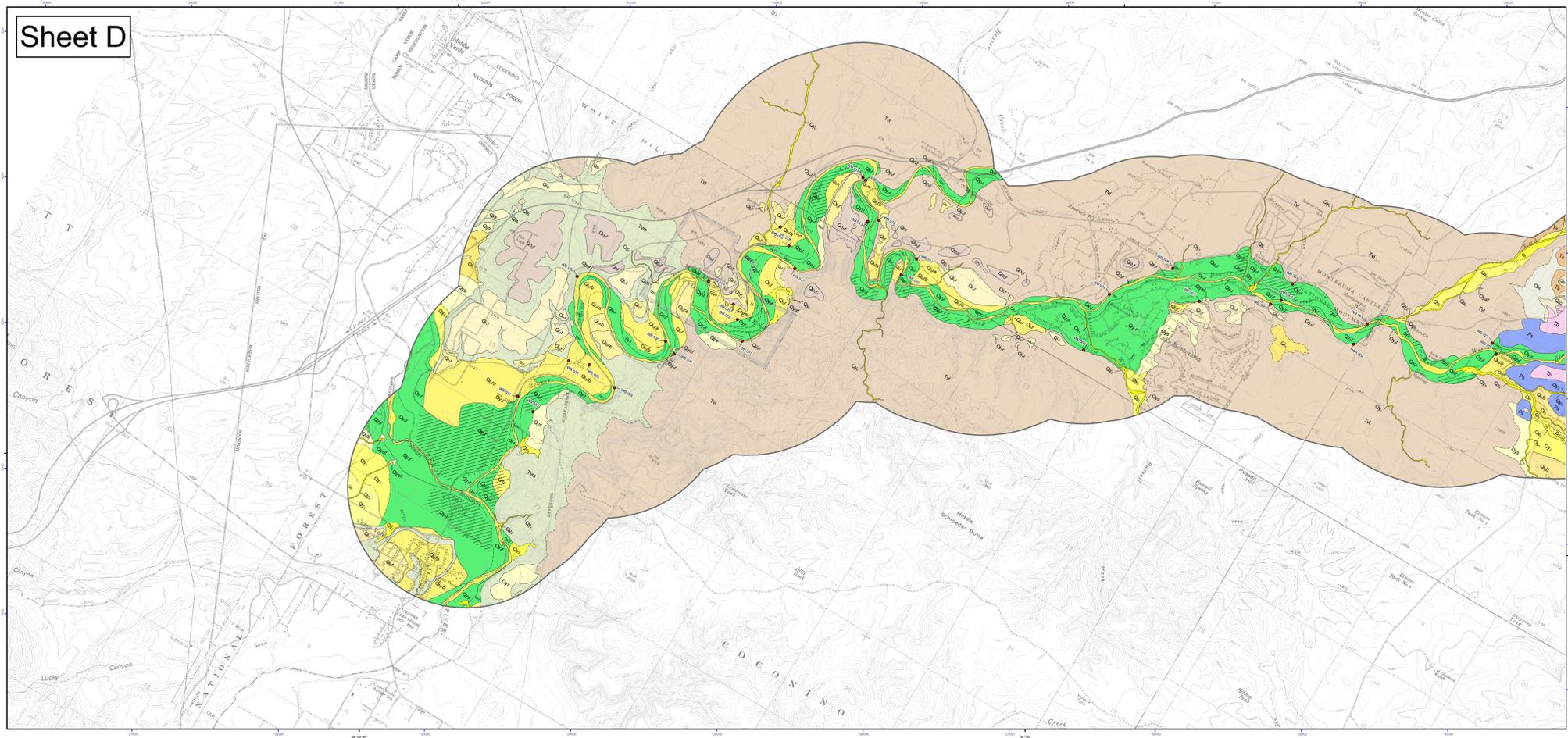


Sheet D



Map Unit Descriptions

Other units	River Alluvium	Piedmont Alluvium	Conocmic Basin Deposits	Bedrock units
Qa Quaternary fill/clay talus and colluvium - unconsolidated to weakly consolidated, very poorly sorted angular rock debris deposited at the base of bedrock slopes	Qar Active river channel deposits - unconsolidated, poorly to very poorly sorted sand to boulder deposits in active river channels. Deposits in narrow canyon reaches are very thin to discontinuous, deposited on underlying bedrock. Deposits are typically unvegetated to lightly vegetated and exhibit no soil development	Qm 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	Tm Late Miocene to Pliocene Verde Formation, lacustrine carbonate facies - fine-grained, laminated plays and lacustrine deposits	Tb Tertiary basalt, undivided - Tertiary basalt flows, associated older cones and pyroclastic rocks, intrusive basalt, and mafic rocks
Qp Paved areas - historically or actively paved fields, irrigated pastures, and other lightly disturbed ground	Qbr Bedrock lined river channel - portions of the active channel where flow passes directly over exposed bedrock. A discontinuous layer of pebbles to boulders may be present but smooth, polished bedrock lines the channel bottom	Qol Late Holocene alluvium - unconsolidated, very poorly sorted silt to cobble low terrace and overbank channel deposits	Tr Late Miocene to Pliocene Verde Formation, lacustrine carbonate facies - fine-grained, laminated plays and lacustrine deposits	Sa Sandstone, undivided - Sandstone, volcanic sandstone, nonmetastar turbid beds, and interbedded mudstone to cobble conglomerate
Qf Flood channel and low terrace deposits - unconsolidated sand, gravel, silt and clay deposits on bars, flood channels, and low terraces. Deposits form tightly vegetated in-channel bars, channels occupied by flow in flood events, and small gravel terrace terraces less than 4 feet above the active channel	Qhr Historical river terrace deposits - unconsolidated, poorly sorted sand, gravel, silt and clay deposits on low terraces and high bars within the modern floodplain	Qol Late Holocene alluvium - older terrace deposits located along incised drainages, broad low-relief distal fan deposits extending into Holocene river alluvium, and infrequently active tributary drainage deposits	Ps Supai Formation - Permian and Upper Pennsylvanian mudstone, siltstone, sandstone, limestone and dolomite	
Qh Late Holocene to historical river terrace deposits - unconsolidated, poorly sorted silt, sand, clay and gravel deposits on terraces adjacent to the modern floodplain. Surfaces are typically planar with subtle or terraced relief	Qyl Late to early Holocene river terrace deposits - unconsolidated, poorly sorted silt, sand, clay and gravel deposits on slightly higher terraces adjacent to the modern floodplain. Surfaces typically are planar with local gully development	Qol Late Holocene alluvium - older fine-grained deposits derived primarily from the Verde Formation		
Qm Late Pleistocene river terrace deposits, younger member - gravely, sandy river terrace deposits up to 65 feet above the active river channel	Qom Late Pleistocene river terrace deposits, older member - gravely, sandy river terrace deposits up to 65 feet above the active river channel	Qol Late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with moderate soil development		
Qm Middle to late Pleistocene river terrace deposits, younger member - high-standing, cobbly to sandy river terrace deposits exhibiting moderate to strong clay development and calcareous carbonate accumulation	Qom Middle to late Pleistocene river terrace deposits, older member - high-standing, cobbly to sandy river terrace deposits exhibiting moderate to strong clay development and calcareous carbonate accumulation	Qol Middle to late Pleistocene alluvial fan and terrace deposits, younger member - weakly consolidated sandy gravel deposits with strong soil development typically inset into slightly older Q2 and Q2a deposits		
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Qm Early Pleistocene river terrace deposits, younger - very high standing, old river terrace deposits, lower level and mafic rocks	Qom Early Pleistocene river terrace deposits, middle - very high standing, old river terrace deposits, middle level			

Bedrock and surficial geologic mapping for areas outside the lateral limits of Holocene river alluvium was compiled from the following sources

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SURFICIAL GEOLOGIC MAP OF OAK CREEK, WET BEAVER CREEK, WEST CLEAR CREEK, FOSSIL CREEK, AND THE EAST VERDE RIVER, CENTRAL ARIZONA

by Cook, J.P.
October 2010
Arizona Geological Survey
Digital Map DM-RM-3D
VERSION 1.0

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.

Boundaries of Holocene River Alluvium

This Solid Line
Clearly defined, accurate bedrock contacts between Holocene river alluvium and bounding geologic units such as bedrock outcrops, alluvial fans, and older alluvium. Line location accurate to within 50 feet.

This Dashed Line
Solid or dashed contacts between Holocene river alluvium and bounding geologic units. These boundaries are also associated with the older alluvial fan or terraced river terrace. Line location accurate to within 100 feet.

This Dotted Line
Approximate bedrock boundaries between Holocene river alluvium and bounding geologic units. Dotted boundaries are assumed to be based on geologic maps, aerial photographs, and topographic data. Line location accurate to within 100 feet depending on terrain topography (steeply dissected areas).

Other Geologic Lines

This Solid Line
Accurate contact

This Dashed Line
Approximate contact

This Dotted Line
Conjectured contact

Solid Bold Line
Accurate Fault

Dashed Bold Line
Approximate Fault

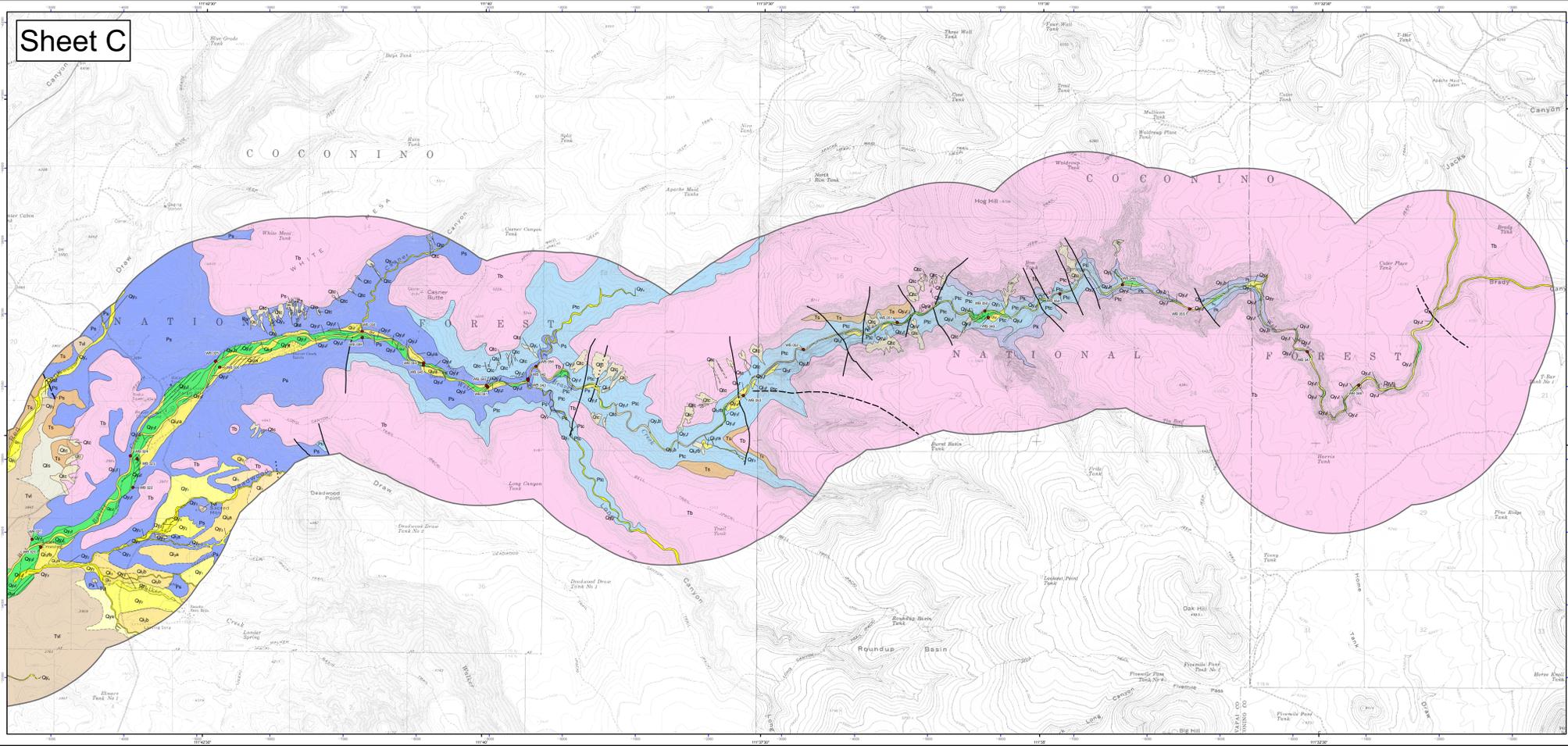
Dotted Bold Line
Conjectured Fault

W
Wellpoint

Location Map

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Sheet C



Map Unit Descriptions

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Digital Map DM-RM-3C
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