GEOLOGIC MAP OF THE SAINT DAVID 7½ QUADRANGLE, COCHISE COUNTY, ARIZONA

Ann Youberg and Joseph P. Cook
Arizona Geological Survey
Geologic Map 48 (DG-M48), version 2.0
April 2009

1:24,000 scale

Citation for this map:

Map Unit Descriptions

Map Symbols

- Deposits associated with slightly higher paleovalleys in the San Pedro valley. These deposits have distributary drainage patterns and are mantled with pebbles, sand, and finer sediment. Terraces have planar surfaces, but small poorly-sorted sand, pebbles, and cobbles with some boulders to moderately-sorted sand and gravel.

- Older Holocene. Older Holocene consists of alluvial deposits extending beyond the modern reach of the San Pedro River, including levees and old river channels. These deposits are typically mantled with pebbles, sand, and gravel. Terraces along major washes tend to be broad to very rounded ridges of relict alluvial fans. Qi1 deposits are composed of very rounded pebble, cobbles and sand. Generally this unit was found within QTsp but at many locations may be found accompanying QTsl. Qi2 deposits commonly the highest standing deposits in the proximal piedmont. Qi3 terraces along major washes are mantled with pebbles, sand, and cobbles with some boulders to moderately-sorted sand and gravel. Qi3 fans and terraces are lower in elevation than adjacent older Holocene deposits. Qi3 terraces along major channel drainages have large unvarnished open fine gravel lags or pebble and cobble deposits. Qi3 terraces along major channel drainages typicall exhibit weak to moderate rock varnish. Qi3 terraces along major channel drainages throughout the study area, and isolated alluvial fans at the base of the piedmont.

- Older Holocene. Older Holocene consists of alluvial deposits extending beyond the modern reach of the San Pedro River, including levees and old river channels. These deposits are typically mantled with pebbles, sand, and gravel. Terraces along major washes tend to be broad to very rounded ridges of relict alluvial fans. Qi1 deposits are composed of very rounded pebble, cobbles and sand. Generally this unit was found within QTsp but at many locations may be found accompanying QTsl. Qi2 deposits commonly the highest standing deposits in the proximal piedmont. Qi3 terraces along major washes are mantled with pebbles, sand, and cobbles with some boulders to moderately-sorted sand and gravel. Qi3 terraces along major channel drainages have large unvarnished open fine gravel lags or pebble and cobble deposits. Qi3 terraces along major channel drainages typicall exhibit weak to moderate rock varnish. Qi3 terraces along major channel drainages throughout the study area, and isolated alluvial fans at the base of the piedmont.

- Remnant surfaces of deeply dissected relict alluvial fans found only on the upper piedmonts. Where preserved Qo soils are strongly developed in isolated areas. Qo soils are commonly found on gently sloping surfaces and along wash banks. Well-preserved Qi1 surfaces have moderately to very well-developed soils. Qi2 and Qi3 terraces are mantled with poorly-sorted sand, pebbles, cobbles and boulders. These deposits are mantled with pebbles, sand, and finest sediment. Terraces along major washes tend to be broad to very rounded ridges of relict alluvial fans. Where preserved Qo soils are strongly developed in isolated areas. Qo soils are commonly found on gently sloping surfaces and along wash banks. Well-preserved Qi1 surfaces have moderately to very well-developed soils. Qi2 and Qi3 terraces are mantled with poorly-sorted sand, pebbles, cobbles and boulders. These deposits are mantled with pebbles, sand, and finest sediment. Terraces along major washes tend to be broad to very rounded ridges of relict alluvial fans. Where preserved Qo soils are strongly developed in isolated areas. Qo soils are commonly found on gently sloping surfaces and along wash banks. Well-preserved Qi1 surfaces have moderately to very well-developed soils. Qi2 and Qi3 terraces are mantled with poorly-sorted sand, pebbles, cobbles and boulders. These deposits are mantled with pebbles, sand, and finest sediment. Terraces along major washes tend to be broad to very rounded ridges of relict alluvial fans. Where preserved Qo soils are strongly developed in isolated areas. Qo soils are commonly found on gently sloping surfaces and along wash banks. Well-preserved Qi1 surfaces have moderately to very well-developed soils. Qi2 and Qi3 terraces are mantled with poorly-sorted sand, pebbles, cobbles and boulders. These deposits are mantled with pebbles, sand, and finest sediment. Terraces along major washes tend to be broad to very rounded ridges of relict alluvial fans. Where preserved