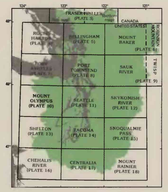
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PROFESSIONAL PAPER 1424–C

Surficial hydrogeologic units for the Mount Olympus quadrangle—PLATE 10

Jones, M.A., 1998, Geologic framework for the Puget Sound aquifer system, Washington and British Columbia



EXPLANATION

Qal **Alluvium (Holocene)**—Grades from clay to gravel, consists predominantly of organic-rich silt to fine sand. The alluvium is generally represented by small discontinuous deposits within smaller river and stream beds; but can be quite extensive in the large river valleys and floodplains; also included are deposits of artificial fill and modified land

Qvm **Vashon moraine deposits (Pleistocene)**—Consist of clay, silt, sand, and gravel; also include mixtures of till and outwash not separately mappable

Qvrg/Qvr **Vashon recessional outwash deposits (Pleistocene)**—Moderately to poorly sorted gravel and sand with small amounts of silt and clay; include ice-contact deposits, glacial outwash alluvium and small amounts of ablation till. Qvrg consists of the coarser deposits and Qvr consists of undifferentiated outwash deposits

Qvt **Vashon till (Pleistocene)**—Predominantly fine-grained deposits consisting of unsorted and unstratified glacial sediments from clay to boulder in size that vary in compaction and composition throughout the Puget Sound Lowland.

Qva **Vashon advance outwash deposits (Pleistocene)**—Consist of stratified and cross-bedded gravels and coarse sands with lenses of silt and clay

Qog **Olympia interglacial deposits (Pleistocene)**—Oxidized orange to dark red, frequently cemented pebble-to-cobble-size gravel consisting of Olympic Mountain derived basalt, graywacke, slate, and sandstone. The gravel also contains thin lenses of discontinuous silt and clay

Qoad **Pre-Vashon alpine glacial deposits (Pleistocene)**—May also include some Olympia nonglacial deposits

Qdp **Pre-Fraser undifferentiated glacial and nonglacial deposits (Pleistocene)**

Bk **Bedrock**—Tertiary and older volcanic, metamorphic, and sedimentary rock, undifferentiated

Hydrogeologic contact

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Base from U.S. Geological Survey
Mount Olympus (1988)
metric quadrangle, 1:100,000
Universal Transverse Mercator projection
Zone 10

SCALE 1:100,000

1 0 1 2 3 4 5 MILES

1 0 1 2 3 4 5 KILOMETERS

SURFICIAL HYDROGEOLOGIC UNITS OF THE PUGET SOUND AQUIFER SYSTEM, WASHINGTON AND BRITISH COLUMBIA, FOR THE MOUNT OLYMPUS QUADRANGLE

By
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