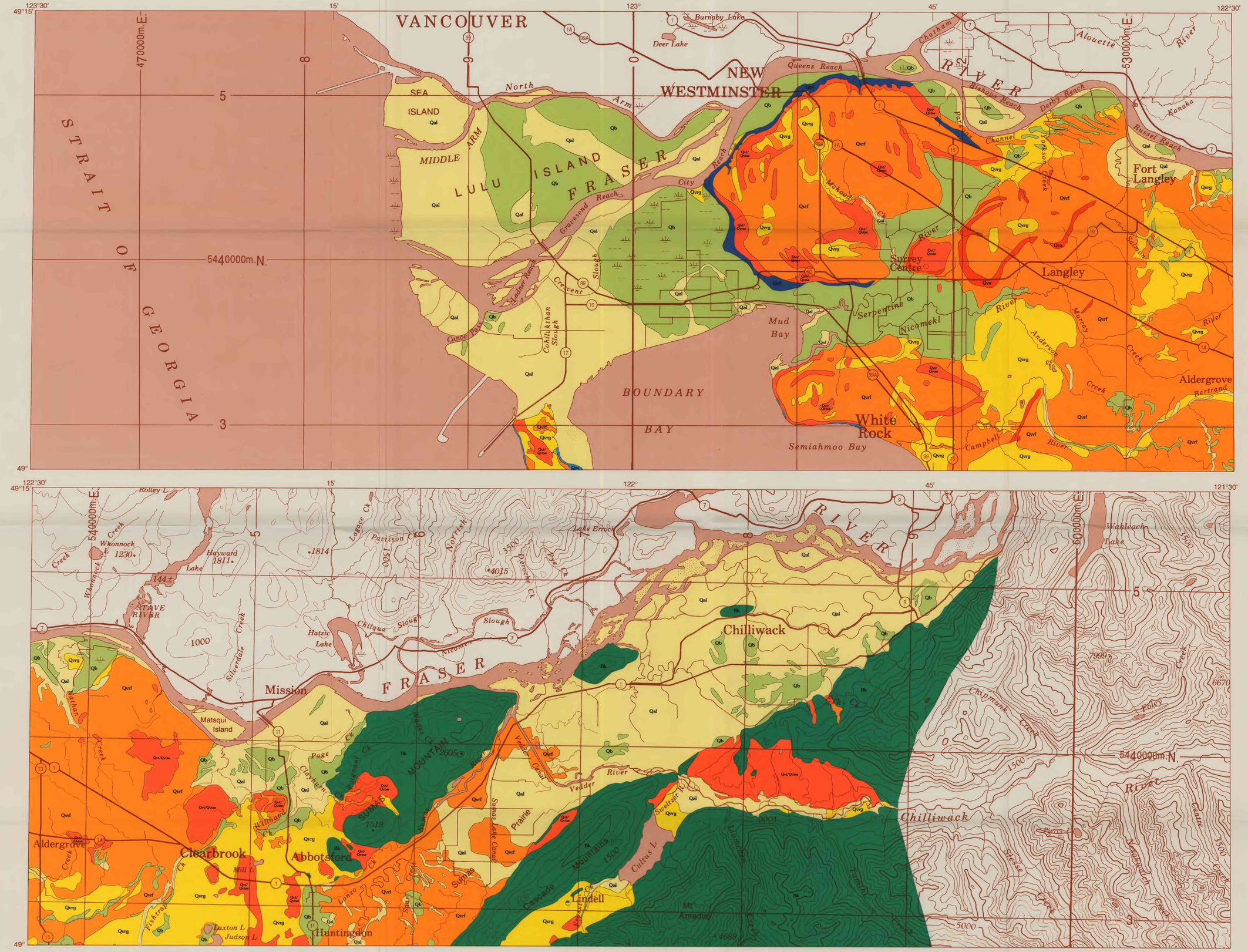
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PROFESSIONAL PAPER 1424–C
Surficial hydrogeologic units for the Fraser Valley—PLATE 3
Jones, M.A., 1998, Geologic framework for the Puget Sound aquifer system, Washington and British Columbia

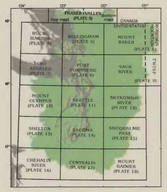


Base modified from National Topographic System
Vancouver (1986); Hope (1986)
metric quadrangles, 1:250,000
Universal Transverse Mercator projection
Zone 10

SCALE 1:100,000

1 0 1 2 3 4 5 MILES

1 0 1 2 3 4 5 KILOMETERS



EXPLANATION

Qal — **Alluvium (Holocene)**—Moderately sorted cobble gravel to poorly sorted gravelly sand, deposited in streambeds, alluvial fans, and floodplains; may also include terrace deposits, landslide deposits, mass wastage deposits, and some older alluvium deposits

Qb — **Marsh, bog, and peat deposits (Holocene)**—Consisting of poorly drained peat and alluvium

Qvrg, Qvrf — **Vashon recessional and Sumas Stade outwash deposits (Pleistocene)**—Moderately to poorly sorted gravel and sand with small amounts of silt and clay. Include some ice-contact deposits, glaciomarine deposits, lacustrine deposits; may also include Bellingham drift and Deming sand deposits from the Everson Interstade. Qvrg consists of the coarser deposits and Qvrf generally consists of the finer deposits

Qvt/Qvtse — **Vashon and Sumas Stade till deposits (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; include the Kulshan drift and some ice-contact deposits

Qva — **Vashon advance outwash deposits (Pleistocene)**—Predominantly consist of a well-sorted, fine-grained sand with lenses of coarser sand and gravel; may also include mass wastage deposits and landslide deposits

Qprs — **Pre-Fraser undifferentiated nonglacial deposits (Pleistocene)**

Qpg — **Pre-Fraser undifferentiated glacial deposits (Pleistocene)**

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

Hydrogeologic contact

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By
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1998

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