

ATTRIBUTE	VALUE/DESCRIPTION	¹⁰ REFERENCE(S)
¹ Aquifer Identification		
BC MOE Number:	463	WRA, BC MOE, 2007
Descriptive Location (Name):	Kelowna Area; SE, E, and NE of Kelowna	ACW, BC MOE, 2007
² BC MOE Classification:	IC	WRA, BC MOE, 2007
Aquifer Type:	Confined	ACW, BC MOE, 2007
Aquifer Dimensions		
¹ Approximate Size (km ²):	61 km ²	ACW, BC MOE, 2007
³ Estimated Avg. Thickness (m):	Unconfirmed, possible average: 25m	Draft pump test data, BC MOE, 2007
³ Est. Avg. Bottom Depth (m):	Unconfirmed	
Stratigraphy and Geology		
³ Aquifer Materials:	Sand and gravel	ACW, BC MOE, 2007
³ Overlying Materials:	Confined by glaciolacustrine clay or till, thickness from 1 m to 99 m (avg = 22 m). (Note that the prime difference between aquifer 463 and 464 is that the confining layer for 463 is approx. 7 m thicker than 464).	ACW, BC MOE, 2007
³ Underlying Materials:	Possibly till	ACW, BC MOE, 2007
⁴ Aquifer Depositional Environment:	4b	ACW, BC MOE, 2007
⁵ Water Well Statistics		
Number of Wells in Aquifer:	Approximately 145	ACW, BC MOE, 2007
Average Well Depth (m):	44 m (range: 6 to 155 m)	ACW, BC MOE, 2007
Average Yield (L/s):	8 L/s (range: 0.06 L/s to 63 L/s)	ACW, BC MOE, 2007
Average Depth to Water (m):	19 m (max. 91 m), some artesian wells.	ACW, BC MOE, 2007
Aquifer Hydraulic Properties and Information		
⁶ Hydraulic Conductivity (m/s):	10 ⁻⁴ to 10 ⁻³ m/s (23 tests)	Draft aquifer test analyses, BC MOE, 2007
⁶ Transmissivity (m ² /s):	10 ⁻² to 10 ⁻¹ m ² /s (23 tests)	Draft aquifer test analyses, BC MOE, 2007
⁶ Storativity or Specific Yield:	S _s = 10 ⁻⁴ to 10 ⁻³ (1 test)	Draft aquifer test analyses, BC MOE, 2007
⁷ Hydraulic Communication with Other Aquifers:	Possibly proximal Kelowna area aquifers (464, 462, 466, 467, 472).	Inferred for this report.
⁸ Recharge Processes:	Inferred types: C, E, possibly B	ACW, BC MOE, 2007. Inferred for this report.
⁹ Other Aquifer Information		
Models:	Stratigraphic 3-D model in progress	GSC, 2007, pers. comm..
Geochemical Data:	None Identified	
Flow Direction/Gradient:	Unconfirmed	
Associated Watersheds:	Bellevue Cr., Mission Cr., Kelowna Cr. Residual Areas: E-4, E-5	Map 5, Appendix I of this report.

ACW = Draft Aquifer Classification Worksheets, WRA = Water Resources Atlas, WL = well logs (from Wells Database)

The above Aquifer Information Table is part of the report: Groundwater and Hydrogeological Conditions in the Okanagan Basin, British Columbia, A State-of-the-Basin Report, by L. Neilson-Welch and D.M. Allen, December, 2007. Aquifer Information Tables are subject to all limitations discussed in the report as well as limitations and footnotes listed at the end of this appendix.