

Aquifer Information Table

Aquifer 464

| ATTRIBUTE | VALUE/DESCRIPTION | ¹⁰ REFERENCE(S) |
|---|--|---|
| ¹ Aquifer Identification | | |
| BC MOE Number: | 464 | WRA, BC MOE, 2007 |
| Descriptive Location (Name): | Kelowna, central to NE 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): | 69 km ² | ACW, BC MOE, 2007 |
| ³ Estimated Avg. Thickness (m): | Unconfirmed | |
| 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 to 85 m (avg = 15 m). (Note that the prime difference between aquifer 463 and 464 is that the confining layer for 463 is on average 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 212 | ACW, BC MOE, 2007 |
| Average Well Depth (m): | 29 m (range: 3 to 155 m) | ACW, BC MOE, 2007 |
| Average Yield (L/s): | 9 L/s (range: 0.06 L/s to 139 L/s) | ACW, BC MOE, 2007 |
| Average Depth to Water (m): | 6 m (max. 20 m), some artesian wells. | ACW, BC MOE, 2007 |
| Aquifer Hydraulic Properties and Information | | |
| ⁶ Hydraulic Conductivity (m/s): | Unconfirmed | |
| ⁶ Transmissivity (m ² /s): | Unconfirmed | |
| ⁶ Storativity or Specific Yield: | Unconfirmed | |
| ⁷ Hydraulic Communication with Other Aquifers: | Possibly proximal Kelowna area aquifers (463, 462, 467, 465, 469, 470) | 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: | Some data may be available from water purveyors. | Possible contact: Kelowna Joint Water committee |
| Associated Watersheds: | Bellevue Cr., Mission Cr., Kelowna Cr. Residual Areas: E-2, E-3, E-4, E-5 | Map 6, 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.