

Map No. 3a
HYDROGEOLOGY
Eastern Newfoundland

Bedrock Hydrostratigraphic Units

Hydrostratigraphic Unit	Lithology	Number of Wells	Well Yield Characteristics (L/min)		Well Depth Characteristics (m)	
			Average	Median	Average	Median
Unit 1 Low to Moderate Yield Siltstone and Shale Strata	Siltstone, shale, with minor volcanic flows and tuffs	5100	20	9	64	61
Unit 2 Moderate Yield Sandstone and Conglomerate	Sandstone, conglomerate, breccia, greywacke, with minor volcanic flows and tuff	2789	22	9	64	56
Unit 3 Moderate Yield Cambro-Ordovician Sedimentary Strata	Shale, siltstone, sandstone, with minor slate and limestone beds	1694	29	14	54	44
Unit 4 Low to Moderate Yield Volcanic Strata	basic pillow lava, flows, breccia and tuff, with minor sedimentary rocks	1819	25	9	67	61
Unit 5 Moderate Yield Plutonic Strata	granite, granodiorite, diorite and gabbro	95	31	14	69	64
Unit 6 Low to Moderate Yield Meta Volcanic Strata	Sericite & chlorite schist derived from felsic and mafic volcanic and sedimentary rocks; minor gneiss and migmatite	168	18	4	61	52

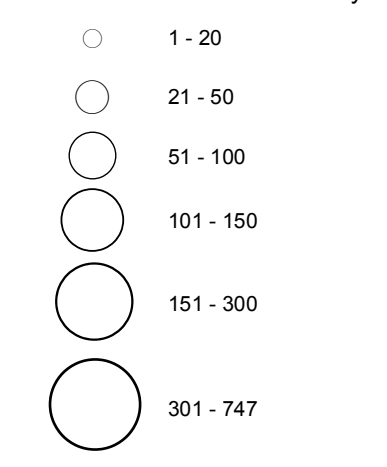
Notes:
1. The data presented are updated to December, 2009. The information was supplied by the DOEC and was recorded by water well drillers as required under the "Well Drilling Regulations", 1982, and amendments.

Surficial Hydrostratigraphic Units

Unit A - Till Deposits
Well yields range from 1.5 litres per minute (L/min) to 227 L/min and averaged 59 L/min. Well depths range from 1.5 metres (m) to 45 m. Includes data from a large number of wells completed in sand or gravel layers within till deposits. Yields from wells completed in fill without sand or gravel lenses are likely to be significantly smaller.

Unit B - Sand and Gravel Deposits
Well yields range from 2 L/min to 270 L/min and averaged 54 L/min. Well depths range from 4.6 m to 40 m.

Number of Wells Listed Per Community



Note: See Appendix II for well descriptions
Elevation in feet above mean sea level. Contour interval approximately 100 feet.

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