

System Name: Clifford Well Supply
Municipality: Town of Minto
Drinking Water System Category: Large Municipal Residential

The Town of Minto is located along the north-western boundary of Wellington County. The northern portion of the Municipality lies within the Saugeen Valley Source Protection Area while the remainder is part of the Maitland Valley Source Protection Area. In 2011, the population was 8334, which was a decrease of 2% from 2006. The main towns are Palmerston (population 2518) and Harriston (population 2034). Smaller villages include Clifford, Greenbush and Drew.

There are two municipal drinking water systems in the Town of Minto that are within the Saugeen Valley Source Protection Area: the Minto Pines Subdivision and the Clifford Well Supply. No new drinking water systems are planned.

The Clifford Well Supply is owned and operated by the Town of Minto. Clifford represents one of the smaller urban settlements in Minto, with an estimated population of 790. The community is largely a residential and commercial centre that services the surrounding agricultural community. Some highway commercial development is evident along Highway 9. Clifford is located along Highway 9, near the north-western border of the Town of Minto and the County of Wellington.

The Clifford Well Supply consists of three drilled wells, two well houses, an elevated 1275m³ storage tank, and a distribution network of water-mains. The watermains range in diameter from 100mm to 150mm. The municipal water system is also used for fire protection and has approximately 46 fire hydrants throughout the distribution system. In the event of a prolonged power outage, a portable generator, which can be moved to well house No. 1 to supply back-up power, is available at the Public Works shed (MOE Inspection report for Clifford, 2009).

All used wells are non-GUDI. Well No. 2 was under the direct influence of surface water (GUDI), and was plugged and abandoned on Dec. 13, 2005 by Well Initiatives Ltd.

Well Name	Clifford Well 1	Clifford Well 3	Clifford Well 4
Well Depth	52.4m	35.7m	43.3m
Uncased Interval	not known	32.3 - 35.7m	41 - 43.3m
Design Capacity (CoA)	1308.96m ³ /day	1313.28m ³ /day	1313.28m ³ /day
Permitted Rate (PTTW)	131m ³ /day	655m ³ /day	1309.248m ³ /day
Modelled Pumping Rate	300m ³ /day	416m ³ /day	0 m ³ /day
Treatment	Filtering (sodium silicate for iron sequestering), 12 percent sodium hypochlorite disinfection		



Clifford Standpipe

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Number of Users Served	711 persons
Aquifer	Bedrock
Permitted Rate (PTTW)	319.68 m ³ /day
Average Annual Usage	358m ³ /day