

System Name: Armow Drinking Water System
Municipality: The Municipality of Kincardine
Drinking Water System Category: Large Municipal Residential

The Municipality of Kincardine is located in Bruce County in the Saugeen Valley Source Protection Area. The western portion of the municipality is bordered by Lake Huron. In 2011, the population was 11,174, which was the same as 2006. Seasonal residents add to the population during peak periods. The main towns are Kincardine (population 6,725) and Tiverton (population 705). Smaller villages include Inverhuron, Millarton, Underwood, Armow, and Bervie.

There are five municipal drinking water systems in the Municipality of Kincardine; four are groundwater wells and one is a surface water intake. The groundwater well systems are: Armow Drinking Water System, Scott Point Drinking Water System, Tiverton Drinking Water System (the Dent well and two wells at Briar Hill), and Underwood Drinking Water System. There aren't any GUDI* wells in this group. The Great Lake intake supplies the town of Kincardine. No new drinking water systems are planned.

The Armow Drinking Water System is non-GUDI and consists of a single well located on Part Lot 16, Concession 7, Bruce Township (459008 E, 4893364 N). The well was drilled in September 2005 to a depth of 62.5 meters. The well is equipped with a submersible pump rated at 0.95 L/sec.

The treatment equipment is located inside the Public Works shed, and the well is located outside on the west side of the Public Works shed. The land use in the vicinity of the well is residential and commercial. There are no municipal sanitary sewers. There are known private wells in the area (MOE Inspection Report 2009).

The overburden layer in the vicinity of Armow is typically about 60 meters thick consisting mainly of fine-grained formations. The depth and character of the overburden serves as a secure confining unit. Travel times from the surface to the bedrock can be anywhere from many tens to many hundreds of years.

Treatment consists of an UV light for primary disinfection and sodium hypochlorite for secondary disinfection. Treated water is discharged to the distribution system via a 50 millimeter diameter PVC pipe. The distribution system was installed in 2008 to service nine connections and consists of approximately 830 meters of two-inch PVC water main and five valves. The Armow distribution system was installed in the fall of 2008.

"The Municipality of Kincardine is committed to:

1. Ensuring a consistent supply of safe, high quality drinking water.
2. Maintaining and continually improving the Quality Management System.
3. At a minimum, to meet all relevant legislation and regulatory requirements.
4. Promoting owner and consumer confidence in the safety of the drinking water supply.
5. Promoting resource stewardship, including water conservation.

The Municipality of Kincardine, June 23, 2008" (Source: <http://www.kincardine.net/>)

*GUDI - Well water or groundwater under the direct influence of surface water (GUDI) refers to groundwater supply sources that are hydraulically connected to nearby surface waters, and are thus vulnerable to contamination by pathogens.



Well is inside building



*Armow Roads
Department*

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