

System Name: Owen Sound (R.H. Neath) Water Treatment Plant

Municipality: City of Owen Sound

Drinking Water System Category: Large Municipal Residential

Owen Sound is the largest urban community in Grey County and in this Source Protection Region. The City of Owen Sound is located on the southern shore of Georgian Bay within the Grey Sauble Source Protection Area. In 2006, the population was 21,753, which was an increase of 1.4% from 2001. The City is home to a magnificent harbour and bay, two winding rivers, tree-lined streets, and an extensive parks system. The tree-covered hillsides and ravines are home to a wide variety of flora and fauna. There is one municipal drinking water system in the City of Owen Sound, which is a surface water intake. No new drinking water systems are planned.

The R.H. Neath WTP is a large municipal residential drinking water system that services a population of approximately 22,000 people in Owen Sound as well as a small area to the north-east that lies within the Municipality of Meaford. The rated capacity of the drinking water system is 27,300m³/day. The treatment process includes raw water screening, pre-chlorination for zebra mussel control, flash mixing, coagulation/flocculation, post-chlorination for disinfection, ultraviolet disinfection, and fluoridation. Chemicals used in the treatment process include gaseous chlorine, hydrofluorosilic acid, polyaluminum chloride, and aluminum chlorohydrate (Stantec 2008).

This Great Lakes (Type A) intake at the R.H. Neath WTP is located at a northing of 505436.59 and an easting of 4938152.75, at a measured depth of the intake crib of 11.3m and a lake depth of 12.3m. The intake is a 900mm diameter intake pipe with a bellmouth inlet extending 670m from the intake structure to the low lift pump station screening chamber. It has a 50 mm diameter line for delivery of chlorine solution to a diffuser at the bellmouth inlet for zebra mussel control (Stantec 2008).

The major coastal structures that exist within the study area are related to the commercial harbour in Owen Sound and the Owen Sound Marina. To the northwest of the Owen Sound harbour is the breakwater protection for the Owen Sound Marina. An adjacent smaller area of the marina exists outside the breakwaters to the north and is protected behind separate rubble mound structures.



Owen Sound treatment site



Owen Sound treatment facility



Owen Sound Water Pollution Control Plant



R. H. Neath WTP computer system for monitoring facility