

System Name: East Linton WTP

Municipality: Township of Georgian Bluffs

Drinking Water System Category: Large Municipal Residential

The Township of Georgian Bluffs borders the City of Owen Sound to the south, west and north. The Township is located in the northwest part of the County of Grey, entirely in the Grey Sauble Source Protection Area. The Georgian Bay shoreline surrounds the Township to the east and north. The Township has a mix of urban, rural and agricultural land including commercial/industrial development and several defined settlement areas, as well as many recreation areas. In 2011, the population was 10,404, a decrease of 1.0% from 2006. The main towns are Shallow Lake (population 447) and Kilsyth (population 100). Smaller settlement areas include Keady, Rockford, Springmount, Jackson, Balmy Beach, and Clavering.

The Township of Georgian Bluffs is currently operating a total of three separate municipal water supply systems, of which two are groundwater-based and one is surface water-based. The current groundwater-based systems include the Pottawatomi Village Drinking Water System and the Shallow Lake Drinking Water System, both of which are designated as GUDI*. The surface water based system is the East Linton system. No new drinking water systems are planned. A fourth surface water system, Presqu'ile has recently been decommissioned but is included in this report because it appears in the approved Terms of Reference document.

The East Linton and Area Water Treatment Plant (WTP) currently services approximately 321 connections. The area is in Phase 1 of a planned development that will result in the addition of 557 equivalent residential units. In the future, it is expected that once Phase 2 of the expansion is completed, the WTP would service up to 1500 equivalent residential units. In February 2011, the Presqu'ile drinking water system's distribution was connected to the East Linton and Area WTP's distribution (MOE Inspection Report 2011). It is classified as Great Lakes (Type A) intake for a large municipal residential system.

The East Linton WTP facility uses a treatment process involving chemically assisted coagulation, flocculation, dual media filtration, ultraviolet disinfection, and chlorine disinfection. Treated and backwash water pumped from the site is sent to an in-ground reservoir. Backwash water is collected and decanted to a percolation lagoon. Standby power is available for the treatment plant but not provided for the low lift pumping station. Chemicals used in the treatment process include polyaluminum chloride as a coagulation agent and sodium hypochlorite for disinfection purposes. The facility is categorized as a large municipal drinking water system.

The intake for the East Linton WTP is located at 44.6433° latitude and 80.9297° longitude. The intake crib has an approximate depth of 4.3m, at a lake depth of 4.9m. The approved intake capacity is 786 m³/day.

*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.



East Linton building



Intake



Georgian Bay

