



Pump Station No. 15 under construction in the west end of Wasaga Beach.

Due to natural topography, it was necessary to construct a new sewage lift-station to service the approximately 49.76 hectares of residential development in the area.



A portion of the residential area to be serviced by the new pump station.

West End Servicing - Pump Station No. 15 Wasaga Beach

The Town of Wasaga Beach has been proactive in extending municipal services (sanitary and water infrastructure) since the late 1970's. In 2004, as part of this ongoing initiative, the Town of Wasaga Beach retained the Ainley Group to provide extensions of the sewage collection and water distribution systems in the West End area. Due to natural topography, it was necessary to construct a new sewage lift-station, designated as Sewage Pump Station No. 15, to service the approximately 49.76 hectares of residential development in the area. The new station will discharge into the existing collection system for Pump Station No. 1. An analysis of the existing collection system verified that Pump Station No. 1 had the capacity to accommodate the increased flow. The pump station is a submersible pump type facility with a wet well. The building itself is a masonry structure with a slab-on-grade and frame roof. A stand-by diesel generator set with an automatic transfer switch was included in the design along with a control system to transmit data to the WPCP SCADA system.

The station has been designed to operate using one pump, with a second pump providing 100% back-up. The station will pump sewage through a 340-m long, 250-mm diameter forcemain to the existing system running parallel with Highway 26; where the sewage flows by gravity to Pump Station No. 1 and then consecutively to Pump Stations No. 2, 3 and 9.

Project Facts

Client: Town of Wasaga Beach

Scope of Work:

- Sewer system analysis
- Preliminary design
- Detailed design
- Agency approvals
- Construction administration:
 - Pump station
 - 200-mm and 300-mm diameter sanitary sewers
 - 250-mm diameter forcemain
 - Watermains
 - Landscaping

Project Cost:

Pump Station: \$640,000 (2004)
Sanitary sewers, forcemain and water mains: \$2,000,000 (2004)

Due to the specialized nature of the work, the pump station was tendered to one contractor the associated sanitary and water main installation was undertaken by another.