



Administration Building

The Upgrade accommodates on-site receiving of septage and equalization of septage loading to the WPCP and incorporates modern mechanical screening, fine bubble aeration, and UV disinfection.



Stage I and II Digester Building

Water Pollution Control Plant Upgrade Municipality of Meaford

In 2003, 1995, the Ainley Group was retained by the Municipality of Meaford to upgrade the WPCP to receive septage, and other related improvements. The scope of the upgrade included an 80m³ septage holding tank, automated billing system and a 24-hour paced septage dosing schedule. A new fine bubble aeration system including variable speed blowers requires only 30% of the electrical energy used by the former aerators. The upgrade included a mechanical fine screen/washer/compactor and bin storage building. The existing chlorine contact tank did not permit dechlorination, and was converted to a UV disinfection system to comply with the Provincial water quality objectives for a non-toxic discharge.

During the course of the work, it was necessary to make repairs to the existing concrete tanks, weirs and underground electrical ducts. Even though the repairs were more extensive than anticipated, they were completed within the original budget.

Project Facts

Client: Municipality of Meaford

Scope of Work:

- Needs study, approvals and detailed design
- Construction supervision, training and commissioning.

Design Criteria:

Design Flow:	3,910 m ³ /d (ADF)
Septage (ADF):	80 m ³ /d
Screen Capacity:	100 L/sec
New blowers:	Three at 133 L/s @ 65 kPa
UV:	5,760 m ³ /day

Project Cost: \$1,100,000 (2004)