

Client

Archie McKinlay, AMCT
Township of Plympton
PO Box 400, Wyoming,
Ontario N0N 1T0
(519) 845-3939

Location

Plympton, Ontario,
Canada

Services

- Environmental Impact
- Design
- Contract Administration
- Site Inspection
- Commissioning

Date

1995

Key Personnel

Karl Grabowski, P.Eng.
Hugh Tracy, P.Eng.
Carson Lee, OAA
Jim Fedorkiw, P.Eng.
Johnny Yuk, P.Eng.
John Riggs, CET

Contract Value

\$1.7 Million

Lakeshore Area Wastewater Treatment Plant, Plympton

Scope of Services

Environmental contamination attributable to on-lot disposal systems and the limits it imposed on development was the impetus behind this new centralized wastewater treatment facility and collection system.



Plympton Wastewater Treatment Plant

Project Description

The plant, designed for a population of 5,000, has a capacity of 3,000 cubic metres per day and outfalls to Lake Huron. The process is conventional extended aeration designed to achieve a 15/15/1 milligrams per litre effluent – for biochemical oxygen demand, suspended solids and phosphorus respectively. The process train comprises: mechanical screening, flow equalization, grit removal, fine-pore aeration, chemical phosphorus removal, secondary clarification, ultra-violet disinfection, aerobic sludge digestion and on-site lagoon sludge storage.



Aeration Tank

Results

The plant also acts as the central control location for eight remote pumping stations.