

Muskoka Woods Sewage Treatment Plant

Client: Muskoka Woods

Year: 2000 - 2002



SERVICES PROVIDED

CCTA was retained in 2000 to complete the preliminary and final design, secure approvals, and conduct construction administration and inspection for a new sewage treatment plant for Muskoka Woods in the Township of Muskoka Lakes. The facility we designed has a rated capacity of 465 m³/day, and includes a 15,000 m³ aerated lagoon, a package sewage treatment plant comprising alum addition for coagulation and soda ash addition for alkalinity and pH adjustment, a clarifier system, a 430 m³ sludge storage tank, a 45,000 m³ effluent storage lagoon, an additional 55,000 m³ effluent storage lagoon for future storage, and a 52 Ha effluent spray irrigation field. What makes this facility unique is the lagoons are constructed in naturally formed depressions in the bedrock, requiring no rock blasting or excavation and only limited clay to construct partial berms to provide the necessary volumes. A 145 m long, 9 m high poured-in-place concrete wall was constructed to separate the aerated and effluent lagoon cells. The facility was completed in 2002 for \$1.2 M.

Key Staff: Rod Langford, Bill Van Ryn.



C.C. Tatham & Associates Ltd.
Consulting Engineers

Collingwood

Bracebridge

Orillia

Barrie

email: info@cctatham.com
web: www.cctatham.com