

Lagoon City Sewage Treatment Plant Expansion

Client: Township of Ramara

Year: 2009



SERVICES PROVIDED

This assignment involved the design of civil structures (reinforced concrete tankage) and masonry buildings related to the sewage plant expansion. The founding soil conditions were found to be poor (layers of peat and silty clay over bedrock at a depth of 9.0 metres). To achieve the most economical foundation system, two different approaches were utilized. Where the elevation of the base slab of the tank was close to the elevation of the peat/silty clay layer, the peat was removed to the silty clay layer and the structure “floated” on an engineered fill pad placed on the silty clay. Where this method was uneconomical due to the amount of soil to be removed and replaced, grade beams and/or base slabs on end bearing piles were utilized.

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