

Casino Rama WTP

The water treatment plant serves the Chippewas of Rama First Nation community located approximately 10 km. northeast of Orillia, Ontario. The project was concerned with plant expansion and a complete upgrade of the Instrumentation, Control and SCADA system of the entire plant.

The work included design, development, implementation and commissioning of the Instrumentation, Control and SCADA system on an operating plant. Where required, existing instruments were replaced. The automation/SCADA system was replaced. The project included supplying all hardware, including control panels. Plant control was automated (closed-loop control) for normal as well as abnormal conditions.

While local controls are provided, the primary Operator interface for monitoring and control is through the SCADA system.

The control and monitoring system is based on Allen-Bradley PLCs and Wonderware SCADA software. A remote link to the water tower is provided for control and monitoring.

Specific control algorithms were developed for chemical system control to meet stringent requirements. Further, discharge pumping schemes were also developed to cope with emergency situations.

