

Project Name: J.W. Oliver Pollution Control Center Expansion and Upgrade

Location: Prince Albert, Saskatchewan

Owner: City of Prince Albert

Prime Consultant: Reid Crowther & Partners (Calgary)



Plant Facility: In 1998, the City of Prince Albert embarked on a major upgrade to the J.W. Oliver Pollution Control Center (wastewater treatment plant) to achieve secondary treatment by implementing a Conventional Activated Sludge process. In this process, the wastewater passes through primary and secondary clarifiers to remove solids, two aerobic bioreactors to digest organic solids and finally through a chlorination system for disinfection prior to release to the river. In addition to the process expansion, the control system for the existing plant was incorporated into a new MCC and SCADA system.

Delco Automation’s Scope of Work:

Designed, engineered, manufactured, and commissioned PLC/HMI based SCADA system, and wired and commissioned the new Motor Control Center (MCC) for the waste water treatment plant.

Technology: A Modicon Quantum PLC performs the process control and monitoring for the SCADA. Modbus Plus communications are used to connect various skid equipment to the Quantum PLC. Two Pentium-class workstations running National Instruments Lookout™ SCADA software provide the operator interface.

