

Headworks Screening System



Case Study Details

Project: Wastewater Treatment Plant Expansion and Upgrade

As part of the capacity expansion at the London, Ontario Oxford Pollution Control Plant, a new headworks facility was included, primarily to provide fine screening of wastewater to a new membrane treatment system.

H2FLOW EQUIPMENT INC. supplied two IPEC rotary screens and two Franklin Miller screenings washer compactor units. Raw sewage is pumped into the rotary drum screens, with the flow passing through to further treatment. The screens are mounted on support structures so that screenings which are captured can fall into hoppers feeding the washer compactors. Solids first pass through an integral grinder and then pass through an auger which washes and separates the soft organics from undesirable solids, which in turn are compacted, dewatered and discharged from an inclined chute into a bin for further disposal.

Screens: Two IPEC Model IFM 72160 Internally Fed Drum Screens, designed to handle a design flow of 710 L/sec (13.5 MIGD) each. Screen openings are 2 mm and the units are approximately 96 inches wide and 254 inches in length.

Washer Compactors: Two Franklin Miller Model Spiralift SC8520 Screenings Conditioners, with integral Taskmaster TM 8520 twin shaft grinder and Spiralift wash press, designed to handle 1.2 m³/hr of screenings from the rotary drum screens.

Engineering Consultant: Stantec

Installation Contractor: Comstock Canada

Start-Up: Summer of 2008