

PROJECT PROFILE

CASS™ - Cyclic Activated Sludge System



Location: Rogaska Slatina, Slovenia
Client: Lemna International Inc.
Type: Municipal Wastewater Treatment Facility
Value: US\$ 0.35 million
Date: Commissioned May 2003

Project Description:

This three-basin **CASS™** SBR facility is the second phase of the wastewater treatment plant for the famous spa town of Rogaska Slatina in North East Slovenia, on the border with Croatia. The initial phase of the project comprised pumping, screening and de-gritting, but recent environmental legislation has forced the construction of the biological treatment facility. Significant improvement in river quality will be achieved through the high quality effluent discharge.

The second phase comprises pumping station, three **CASS™** SBR basins with SCADA control system, ultra-violet disinfection, and sludge storage lagoon.

The Rogaska plant utilizes fine bubble aeration in the SBR aeration basins and an Allen Bradley Process and Motor Control Center. Dissolved Oxygen Control, Nitrification-Denitrification, and Phosphorus removal techniques are a standard feature of this **CASS™** SBR wastewater treatment plant.

Average Design Flow: 0.47 MGD (1800 m³/d), Peak Flow 1.1 MGD (4200 m³/d)
 Influent Design Conditions: BOD 300 mg/L, TSS 300 mg/L, NH₃N 35 mg/L, TP 12 mg/L
 Effluent Limits: BOD 30 mg/L, TSS 30 mg/L, TKN 8 mg/L, NH₃N 1 mg/L, TP 1 mg/L