

PROJECT PROFILE



CASS™ - Cyclic Activated Sludge System



Location: Okmulgee, Oklahoma, USA
Client: C P Kelco US Inc.
Type: Industrial Wastewater Treatment Facility
Value: Not Disclosed
Date: Commissioned October 2003

Project Description:

This high strength industrial wastewater treatment facility was executed as design-build-finance-operate (DBFO) by Earth Tech Inc.

The plant comprises inlet flow equalization, pH correction, temperature control, anaerobic UASB process, two **CASS™** SBR basins, tertiary filtration and UV disinfection. Aerobic sludge digester, thickening, dewatering and storage facilities are also provided for waste activated sludge treatment.

The plant is designed for an average flow of 1.0 MGD (3785 m³/d) with a peak flow of 1.5 MGD (5678 m³/d). The **CASS™** SBR produces a high quality effluent from a wastewater with a population equivalent of 250,000.

Design Flow: 1.0 MGD (3785 m³/d) Peak Flow: 1.5 MGD (5678 m³/d).
Influent Conditions: BOD₅ 1080 mg/L, TSS 500 mg/L,
Effluent Standard: BOD₅ 8 mg/L, TSS 15 mg/L,