CASE STUDY

PROJECT NAME
St. Martin High School

DESIGN FLOW
35,000 Gallons Per Day

PROCESS USED
ECOPOD Fixed Film Media

DEGREE OF TREATMENT
Surge Tank
Pre-Treatment
Reactor
Dosing
Drip Disposal

WASTE TYPE
Domestic

LOCATION
Ocean Springs, Mississippi

ECOPOD and Drip Disposal System to Equalize Varied Daily Flow Rates

SUMMARY
The treatment system at this site consisted of (2) E1750 ECOPOD units installed in poured in place concrete tanks. It is designed for a flow rate of 35,000 GPD of 210 mg/L BOD and 210 mg/L TSS domestic waste, treating down to 30/30 mg/L. The facility is a public high school located on the Mississippi Gulf Coast. Because schools provide certain hours of peak flows and other hours of little to no flow, a flow equalization tank was installed before the treatment reactor tanks at a volume of 28,034 gallons, to ensure the peaks will not reduce the efficiency of the treatment system. The purpose of the flow equalization system is to store the effluent at peak flow and process it to the ECOPOD treatment system throughout a 24 hr period, as the biology is most efficient when being “fed” consistently throughout the day. The flow equalization tank was preceded by a 14,393 gallon primary tank. A drip disposal system was also supplied by Delta Environmental, complete with effluent pump chamber, headworks, tubing, controls and all necessary valves and fittings. Concrete tanks supplied by others.

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