



Project Profile

Sequencing Batch Reactor(SBR) Stonewater Creek WRF, Millsboro, DE



Layne Christensen Company designed and constructed a wastewater treatment plant capable of treating a peak flow of 225,000 GPD. After complete permitting and design, the facility was built and ready for operation in May 2005. The system consists of an Aqua-Aerobic sequencing batch reactor and sludge digester.

The plant building encloses an automated inline influent grinder and a three compartment concrete in-ground tank for two SBRs. A booster pumping system discharges the treated effluent to six rapid basins that cover a six acre area. Flows are recorded with influent and effluent mag-meters. The plant building houses an automated control system within a control room, a lab room, and an ADA compatible restroom, all in a climate controlled environment. SBRs provide an economical alternative to traditional processes. Treatment takes place in one tank, costs less than most biological treatments, and can handle a wide array of organic and hydraulic loads. SBRs are ideal for housing developments, small towns, industrial sites, and office complexes.

The Design-Build approach provides process design, permitting, construction, and start-up of treatment facilities in a timely and economical manner.

Project Duration:
9 months

Project Completion:
May 2005

Engineer:
Artesian Wastewater Management, Inc.
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