

Carbon Hill Installation Announcement



Entex installed a WavTex module in a new pretreatment tank ahead of Carbon Hill, Illinois' overloaded recirculating sand filter (RSF). This gave the aging filter media relief from BOD loadings beyond its original design. The village relies on scattered primary tanks to keep TSS in check, but organic loading alone was overwhelming the filter.

The single WavTex module was installed in November 2025. It was built with EnTextile media on a stainless steel frame and was sized for a 0.016 MGD design flow. It targets BOD reduction from 750 mg/L to under 200 mg/L and ammonia from 60 mg/L to under 20 mg/L.

Application

Provide relief for the overloaded RSF and year-round nitrification

Solution

Install a single WavTex module in a new pretreatment tank

Objective

Give the RSF relief from BOD overload.

Effluent Goals:

- BOD < 200 mg/L
- NH₃-N < 20 mg/L