

WEST COUNTY WWTP LIQUID PROCESS PHASE III EXPANSION LOUISVILLE, KY

FINAL PROJECT SCORECARD

Design/Build
contract saves time
and money

Utilize existing
odor control system
to save money

All major sources
of odor contained
and controlled.

This was a design/build project to expand the capacity of the West County WWTP to 30 MGD. WEA teamed with Hall Contracting and GRW Engineers and was responsible for designing the odor control systems for the new sludge holding tanks and the screenings dumpster building. A 12,000 CFM biofilter was designed for the holding tanks. The biofilter was preceded by an in-ground air humidification system and included concrete walls, an air distribution system constructed of high density polyethylene and inorganic media. The media is expected to have a life in excess of 10 years and will provide H₂S and odor removal efficiencies in excess of 99% and 95%, respectively. Air from the new screenings dumpster building will be directed to the existing 14,000 cfm carbon adsorber located near the screenings building to reduce costs. Construction will begin in January 2004 and be completed by the end of 2004.

WEA will provide services during construction including shop drawing review, regular inspections and startup and training services.

**Existing 14,000 CFM
Carbon Adsorber**

