

## **JEFFERSONTOWN WWTP ODOR CONTROL IMPROVEMENTS LOUISVILLE, KY**

### **FINAL PROJECT SCORECARD**

- Phased construction** to fit MSD budget
- Low-Maintenance** odor control systems with high odor removal efficiencies
- Follow-up testing** will be conducted to quantify odor reduction
- Carbon adsorption** and **activated sludge diffusion** utilized

The 2.5 MGD Jeffersontown WWTP had received numerous odor complaints from neighbors and the local Air Pollution Control District had issued Notices-of-Violations due to excessive odors being

emitted from the site. WEA first completed an odor study to identify the primary sources of odor and then completed a two-phase design. In the first phase, a cover was installed over a primary sludge tank and the air was captured and treated in a 2,300 cfm carbon adsorber. Phase II of the project included covers over the plant influent channels, grit tanks, primary influent and effluent channels, primary effluent weirs and waste activated sludge holding tank. The air from these sources was collected and treated using carbon adsorption and activated sludge diffusion. These odor control improvements were completed in 2003 at a total cost of about \$600,000. Follow-up odor testing will be conducted in 2004 to quantify total reduction in odor emissions from the site resulting from these improvements.



**2,300 CFM Carbon Adsorber**