

## CASE STUDY

# Radial Flow (RF)

Big Creek WWTP  
Big Creek, Georgia

## THE PROBLEM

The Big Creek Wastewater Treatment Plant in Georgia faced persistent odor complaints from nearby residential neighborhoods. Like many treatment facilities, Big Creek needed an effective solution to remove hydrogen sulfide (H<sub>2</sub>S) and other odor-causing compounds from the air through gas-phase filtration.

When evaluating odor-control technologies, the plant had to consider their unique constraints: limited available footprint and the need to accommodate an exceptionally high airflow. These factors made traditional odor-mitigation systems difficult to implement.

After reviewing multiple options, Big Creek identified PureAir's Radial Flow system as the only solution capable of meeting both the spatial limitations and their performance demands.



## THE SOLUTION

The Radial Flow unit's unique design generates a turbulent airstream through the media banks, enabling a significantly higher airflow capacity and more efficient gas-phase filtration. This level of performance was not offered by others in the industry. Big Creek was excited to work with a local manufacturer, with PureAir's plant located only a few miles away in Atlanta, Georgia. The details of the unit include:

- RF-13-17-2 constructed of HDPE was chosen to treat 25,000 CFM of malodorous air
- FRP BLOWTHRU blower with 10HP
- Mist and Grease Filter
- Sulphasorb XL™ chemisorbant media

The system delivered the efficiency and capacity required to effectively eliminate odors and address community concerns. As a result, odor complaints from the surrounding community have been eliminated.