

# Wastewater Treatment

## Corrosive Contaminant Risk

Not only is hydrogen sulfide potentially dangerous at high concentrations, but electronic corrosion at these plants can occur when corrosive, acidic gases attack sensitive computer controls and other critical electronics that affect the reliability of plant processes.

### If Not Controlled, Corrosion Leads To:

- Blocked currents
- Brittle connection points
- Overheated systems
- Costly repairs
- Failed boards in control systems
- Plant downtime
- Reduced production efficiency in compressed air systems and increased maintenance costs

## Filtration Solutions



MEGApleat® M8  
(see page 118)



BioCel® VXL  
(see page 143)



SAAF™  
PORTA-Scrubber  
(see page 242)



## Critical Importance of Air Quality

Control rooms are utilized by large-scale wastewater treatment plants to monitor and control plant operations. The control room and network of control equipment are essential to plant operation and enable these plants to maintain the highest efficiency possible. If the control room malfunctions, it can cost a plant tens of thousands of dollars per hour.

Particulate and corrosive gaseous contaminants have become a serious problem for these control rooms, sometimes resulting in catastrophic failures of equipment. These contaminants enter the control rooms in a variety of ways, including outdoor ventilation systems, adjacent interior areas, and with individuals entering and exiting the room.

## Dangerous Odors

Industrial wastewater treatment generates odors that can be strong, persistent, and a nuisance to employees, residents, businesses, and industries located near the wastewater treatment plant. Strong odors develop at several areas within a wastewater treatment facility, such as headworks, primary clarifiers, pump stations, and sewage sludge areas. Nuisance odors often emerge from the following sources: combined sewer overflow (BTEX, TCE, and other VOCs); industrial sewage (benzene, industrial chemical effluents such as amines, and other VOCs); and residential sewage (ammonia, hydrogen sulfide, and mercaptans).

## Optimize Your Environment

Using SAAF™ Tech Tools, a decision science solution program for configuring gas-phase applications, AAF Flanders experts can identify optimal media and equipment solutions. SAAF Tech Tools simplifies the complexities surrounding gas-phase applications through a guided problem solving experience.

A thorough air filter audit of your HVAC Systems is the first step that AAF Flanders takes in order to provide you with professional guidance and analysis for cost savings and risk reduction. By conducting this audit, we will be able to understand your current state and then utilize SAAF Tech Tools and TCO Diagnostic®, advanced analytical software tools, to identify how you can improve air quality, energy savings, and operational flexibility while reducing risk and total cost of ownership.