

Wastewater Treatment Plant Reclaims Effluent Water with ZGF Spring Filter Technology



Wastewater



**ZGF EZ Clean EC700S, 5-Pod
Flowrate: 238 gpm**



**Each Pod contains (7) proprietary
ZGF Spring Filter elements
with 20µ absolute gap**

Customer Challenge:

Woodman Point Wastewater Treatment Plant (WWTP) in West Australia implemented a new bio-scrubber system in the odor control facility. The innovative bio-scrubber system requires a reliable supply of clean water to maintain efficient operation.

Water scarcity in Australia is a significant issue. Woodman Point wanted to invest in a system to enable final treated WWTP effluent to be used as an environmentally responsible, sustainable alternative to expensive clean, drinking-quality service water.

The WWTP has a minimal maintenance staff so the solution could not create a maintenance burden.

ZGF Solution:

A ZGF EC700S, 5-Pod automatic filtration system fitted with 20 µ ZGF Spring Filter elements was installed. The ZGF EC700S automatic filtration system was designed to provide consistent and reliable performance with virtually no operational input while continuously operating. Thus, eliminating the need for a separate stand-by system.

The combination of commercial and operational efficiencies delivered by this system is key to its success in this type of application. The ZGF EC700S requires virtually no maintenance, a small spare parts inventory, and a relatively small footprint that saves expensive real estate.

Results:

- Implementation of the ZGF EC700 filtration system **saves over 340,000 gallons of drinking-quality water per day** which is over 100 million gallons per year
- **Consistently reduces Total Suspended Solids from 200 mg/l down to 5 mg/l**
- The operating costs are minimal because the pump that supplies water to the bio-scrubber provides enough pressure to backwash the EC700S filter