CASE STUDY

Drum Scrubber (DS)

City of Camas,
Washington Pump Station

PureAiR
A cleanwater1™ Company

THE PROBLEM

The City of Camas in Washington was experiencing complaints of odors coming from one of their pump stations for the wastewater treatment plant. The malodorous air was mainly a result of hydrogen sulfide from the wastewater at the pump station. The city analyzed a number of different technologies that could treat the air, and a dry scrubber was deemed the best option. Specifically, the city was interested in finding the most economical solution to the problem. The air filtration system went to bid with other pump station upgrade projects.

THE SOLUTION

In order to provide Camas with the most economical odor solution while still providing 99.5% removal efficiency, PureAir proposed their DS-500 system. Having much experience in this exact application, PureAir won the bid, and began to work with Camas on building their air filtration system. The DS-500 was made of high-density polyethylene with a 500 CFM airflow capacity. Other system details are as follows:

- Vessel diameter was 40 inches, with a height of 52 inches
- 1.5 HP, cast aluminum, DRAWTHRU blower
- Mist and grease filter integrated
- 13 ft^3 of Sulphasorb XL™ media and 4 ft^3 of CPS Blend media

The drum scrubber has been successful in removing the odor at the pump station, and Camas continues to rely on PureAir replacement media.