

Low Profile Multi-Stage Biological Treatment

ECS Environmental Solutions offers a full range of odor control systems for municipal odor control.

ECS is a process design company with a team of experienced process engineers with detailed understanding not only in our process technology, but practical experience dealing with plant and collection system challenges.

BioPac DS

The BioPac DS combines high H₂S removal efficiencies with the organic and VOC performance of conventional biofilters.

Additional ECS Offerings

- Chemical Scrubbers
- Degasifiers
- Activated Carbon Systems
- FRP Ductwork Packages
- AMCA Certified Dampers
- Hoods / Cover Systems
- Chemical Storage Tanks
- Sound Attenuation



Standard Feature

- Low profile
- Flexible media options
- Modular FRP vessels
- Low O&M requirements
- No chemicals required
- Low water consumption
- Full service options from ECS
- Conservative total odor performance

Primary Stage

Stage 1 utilizes both structured, synthetic BioPac. The object of this stage is to rough down elevated levels of H₂S to maximize organic removal in the second stage.

Second Stage

Stage 2 utilizes Biopure, and engineered media developed by ECS. ECS provides similar removal characteristics as conventional wood chip biofilters with two primary benefits. ECS will not compact or degrade in an acidic environment and EBRT (quantity of media) is cut in half.

All components are manufactured using high quality materials resistant to the corrosion atmosphere encountered in municipal odor control. Housing is FRP, Vinyl ester with a 100-mil corrosion liner on all internal components.

Biopure pictured to the left. Acid resistant expanded shale and ceramic balls have a special coating chemically bonded to them. Nutrients and buffers help propagate bacterial growth while manipulating bed PH>



BioPac resists compaction, plugging and other mechanical challenges encountered with alternative biotrickling filter medias.

