

Pilot-Scale BioViper™ System

Mobile Pretreatment of Food & Beverage Wastewater

If you've been considering your options for onsite treatment, a BioViper™ pilot study allows you to 'test the waters' before investing in a full-scale system.

All waste streams are not alike. Before investing in a pretreatment system, it makes good economic sense to conduct a pilot test on your wastewater stream, at your facility. Without it, you run the risk of having a system that is either over- or under-sized—an often costly mistake. By having Baswood conduct a pilot-scale study with our mobile biological pretreatment system, the appropriate full-scale BioViper™ system design parameters are defined to maximize the efficiency of the process while ensuring your treatment objectives are achieved.

With the high BOD (biological oxygen demand) typically found in food & beverage processing wastewater, some form of pretreatment is often required to meet ever more stringent municipal discharge limits and reduce related surcharge fees. However, most pretreatment systems have high energy demands, produce large amounts of solids, and need constant operator interface. The BioViper™ is a low energy, cost effective alternative that produces minimal solids and operates virtually odor free, while providing exceptional BOD removal.



Why perform a BioViper™ pilot study?

- All wastewater streams are unique and respond to treatment technologies in different manners
- Best option for properly sizing a full-scale system, reducing overall project cost
- Determines actual operating costs and surcharge savings
- Provides you with a better understanding of the technology and its operating requirements

The Baswood BioViper™ Pilot System utilizes our patented, proprietary technology — Aerobic/Anaerobic Integrated Microbial Succession (AIMS) — to specifically handle high-strength waste streams from food & beverage processing, replicating the performance of a full-scale installation. Our goals with every pilot study go well beyond the evaluation of our technology — we characterize your waste streams and their variability, determine how your wastewater will respond to treatment, assess the need for ancillary equipment, establish operating costs and select the size and operating factors for a full-scale BioViper™ treatment system.

BioViper™ Mobile Pilot System Features

- Completely self contained with simple process connection requirements
- Influent pumping system with pre-screening
- On-line process instrumentation including flow rates, pH, temperature and TSS
- pH adjustment and nutrient addition systems
- On-site testing capabilities include COD, TSS, VSS, DO, and nutrients
- Influent and effluent composite sampling devices
- Optional effluent clarification system with solids discharge pump
- Climate controlled laboratory/office space
- Remote system operation and monitoring with call-out alarm system

About Baswood

Baswood offers an environmentally responsible, lower total cost alternative for wastewater treatment and biosolids management. Our proven, patented technologies provide effective treatment of municipal and industrial wastewater streams. Founded in 2004, the company delivers innovative, technology-based solutions that produce results. Our systems are compact, customizable, and require less energy and limited manpower to operate.



System Specifications

Size: 40'l x 8'w x 9'h
(custom shipping container)

Loads: 3 to 8 kg COD/m³

Electrical Requirements:
480 VAC, 3 Phase, 100 Amps

Skid Mounted



For additional information

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