



# Advanced Technologies. Wastewater Solutions.

## Benefits of a Baswood System

- Low life-cycle cost providing a rapid return on investment
- Superior digestion rates resulting in significant savings on BOD and related surcharge fees
- Modular, customizable unit operation with compact footprint and minimal site infrastructure needs, reducing construction risk
- Efficient biosolids digestion that consistently reduces the quantity of sludge to manage and dispose of by 60% or more, minimizing handling costs
- Capable of handling widely fluctuating organic loads
- No need for pretreatment or odor control
- Environmentally friendly system that has a smaller carbon footprint than other systems, minimal odors, and can meet water reuse standards
- Ease of operation and maintenance through use of commercial off the shelf (COTS) components and proven Supervisory Control and Data Acquisition (SCADA)

Baswood can configure economical modular systems as complete treatment alternatives for municipal, agricultural, and industrial facilities, or discrete populations such as small towns, resorts, university campuses, deployed forces, and military bases.

Baswood delivers innovative, technology-based solutions that provide effective BOD removal and biosolids reduction for a wide range of industrial, municipal, and commercial applications. Whether you are facing increasing surcharges from the local sewage treatment facility, or trying to fully manage your own wastewater treatment needs, Baswood has a custom solution designed to meet your specific requirements.

Using patented technologies, Baswood delivers robust, biological systems that are designed to handle high-strength waste streams, have low operational energy demand, and operate virtually odor free. Our advanced treatment systems provide proven, superior performance with lower life-cycle costs.

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Baswood systems significantly lower the life-cycle cost of sludge and high-strength BOD waste processing and handling, while providing short-term return on investment.

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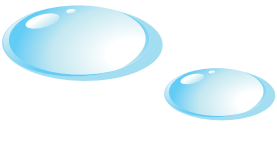


## The Technology

Baswood's patented Aerobic/Anaerobic Integrated Media System (AIMS) maximizes biological treatment efficiency utilizing our patented Dry Cycle Aerobic/Anaerobic Digestion (DCAD) technology. Waste is fed sequentially through a series of mixed biological fixed film reactors. Within each reactor are treatment zones that allow the technology to maximize biological treatment, providing superior or enhanced BOD digestion, as well as biological nutrient removal.

Baswood's systems achieve treatment goals with a reduced hydraulic retention and increase solids retention. These factors, along with the efficiency of our DCAD technology, result in a smaller physical footprint, reduced volume requirement, effective sludge reduction, and lower power demand.

The Baswood systems require significantly less operational horsepower compared to other similar sized aerobic technologies. The units are also internally self-buffering, which translates to avoided chemical costs. In addition, Baswood's proprietary control system is easy to use and can be operated on site or remotely.



## For additional information

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## Market Applications

### Industrial Wastewater Pretreatment

Food and beverage (F&B) manufacturers are faced with sewage discharge limits from the local municipalities due to the typically high BOD content of their effluent. Pretreatment is often needed to meet these ever more stringent discharge limitations and reduce related surcharge fees. Specifically designed to handle high-strength industrial waste streams from F&B processing, the Baswood **BioViper™** offers a preferred combination of cost effectiveness, size, simplicity, and low operating costs to provide optimal pretreatment when compared to traditional treatment technologies. In addition, the BioViper's robust biomass can respond quickly to fluctuating waste loads without upsetting system performance.

### Municipal Biosolid Sludge Management

The Baswood **BioVore™** seamlessly integrates into new and existing municipal wastewater treatment plants to support biosolids/sludge management. Traditional sludge management techniques have high energy demands, use significant quantities of chemicals, and need constant operator interface. The BioVore's digestion process effectively reduces biosolids from primary waste sludge and waste activated sludge (WAS) in a small footprint with limited energy needs. The system successfully reduces POTW sludge volumes by up to 60% without chemicals or nutrients in full-scale municipal wastewater treatment facilities.

### Decentralized Wastewater Treatment (Secondary & Tertiary Treatment)

Baswood also provides an affordable, flexible, and efficient decentralized wastewater treatment solution for small municipalities, planned communities, and hotel and resorts. The Baswood **BioVore™** is combined with proven technologies from existing partners to deliver an effluent that meets the requirements for discharge and reuse, while producing less residuals solids that meet Class B Criteria.

### Animal Feeding Operations

The Baswood **BioSaver™** processes high nutrient swine waste, harvesting the solids as an easily managed beneficial soil amendment and making it easier to operate within the restrictions governing nitrogen and phosphorous loading. The liquid effluent from the treatment of these wastes is easily treated to meet reuse standards for sanitation purposes and can also meet livestock drinking water criteria.

### Rapid Response (Disaster Assistance & Deployed Military)

Baswood's rapid response systems are compact, containerized **BioVore™** units capable of treating 150,000 gpd of municipal-strength wastewater to any theater or point of use. The system can be equipped to treat residual water to tertiary discharge standards or potable water reuse criteria. Baswood provides mobile waste treatment systems to accompany deployed forces, reducing military transportation volume and risk. In natural disaster responses, a portable Baswood system can be used by disaster response or humanitarian assistance agencies for interim treatment capacity until affected POTW systems can be restored to routine operation.