



Miami Beach Biofilter

Presented to:



Presented by:
Derek Webb, P. Eng,
May 13, 2025

BIOREM

EXPERIENCE, INTEGRITY, PERFORMANCE.



>> Project Team



- Air emissions and odor control systems engineering and manufacturing
- 30+ years of proven performance
- 2,400+ installations worldwide



- Water and wastewater treatment construction
- Superior project delivery
- Operational since 2007



BIOREM installation in Miami Beach, FL

PROJECT OVERVIEW

City of Miami Beach

Job No. L17801: Lift Station 31 Odor Control Installation

Project Scope:

Odor control in a dense, urban setting
Pumping station upgrades

Project Location:

Slightly southwest of Washington Avenue and 3rd Street
intersection (295 Washington Avenue)

Objectives:

1. Remove nuisance odors and prevent noise
2. Blend infrastructure seamlessly into neighborhood
3. Minimize maintenance requirements





Community- friendly BiofiltAIR®

Interactive Video

Artist video rendition



PROJECT OVERVIEW

COEXISTENCE WITH CURRENT INFRASTRUCTURE

- ✓ Designed to reduce any odors associated with the collection system and pumping station
- ✓ Designed to reduce noise
- ✓ Maintains location of existing utilities and minimizes construction work
- ✓ Designed to keep equipment out of sight and secure
- ✓ Preserves existing oak trees, and incorporates landscaping elements



Site plan for job no. L17801 showing proposed location of BIOREM system

TECHNOLOGY OVERVIEW

BIOFILTAIR™

Community air filter

- ✓ Designed with aesthetic, Cuban mosaic tiles to blend with community infrastructure
- ✓ Landscaping around the filter to transition structure into community
- ✓ No moving parts or entranceways- all equipment secured
- ✓ Noise-reduction features throughout the construction
- ✓ Harnesses the power of mother nature to eliminate odors. Very low maintenance required.



Artist rendition – exterior detail

TECHNOLOGY OVERVIEW

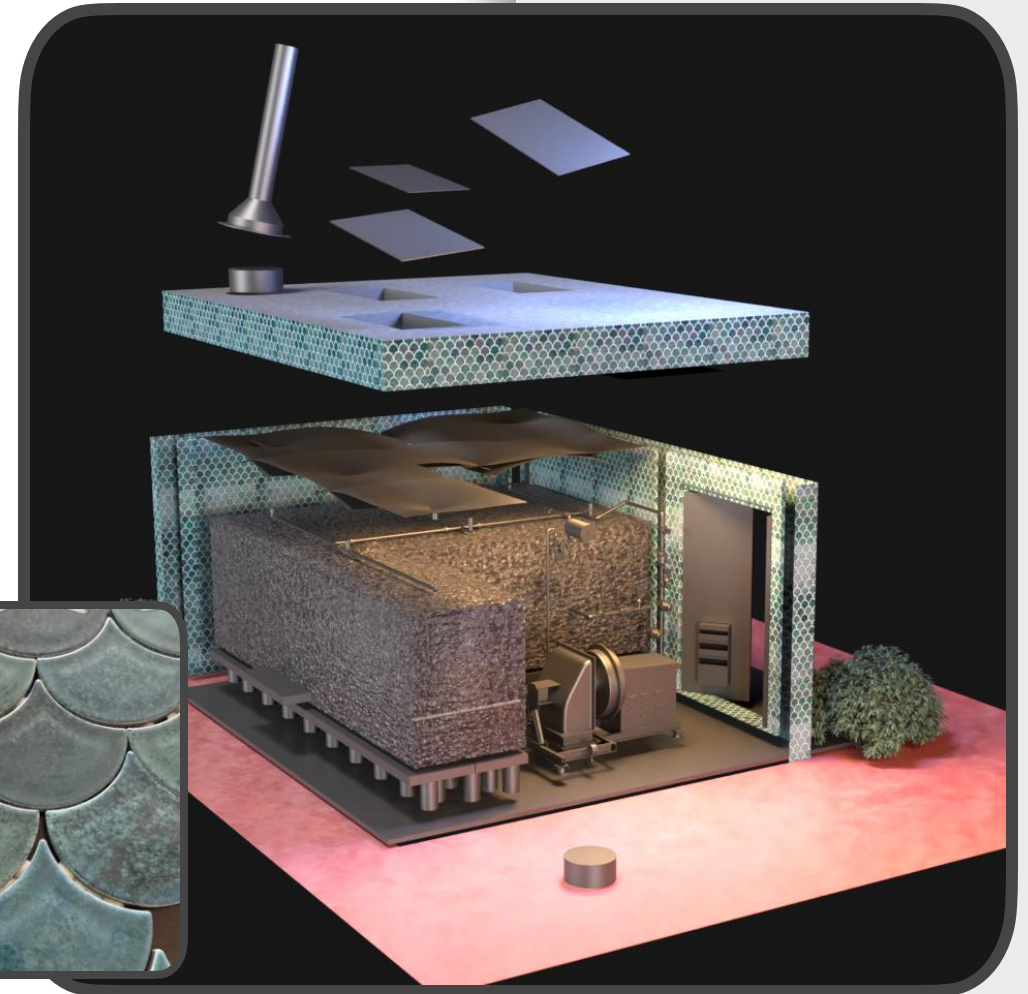
BIOFILTAIR™

Improving air quality

- ✓ Dimensions: 14.7' x 12' x 9' (L x W x H)
- ✓ High-density concrete walls and acoustical louver to reduce noise
- ✓ High-efficiency fan
- ✓ Long-lasting, filter media to destroy odors
- ✓ Fully automated and low maintenance
- ✓ Stainless steel and corrosion-resistant construction
- ✓ Architectural tile finish for the exterior



Tile closeup



Artist rendition – exploded view

TECHNOLOGY OVERVIEW

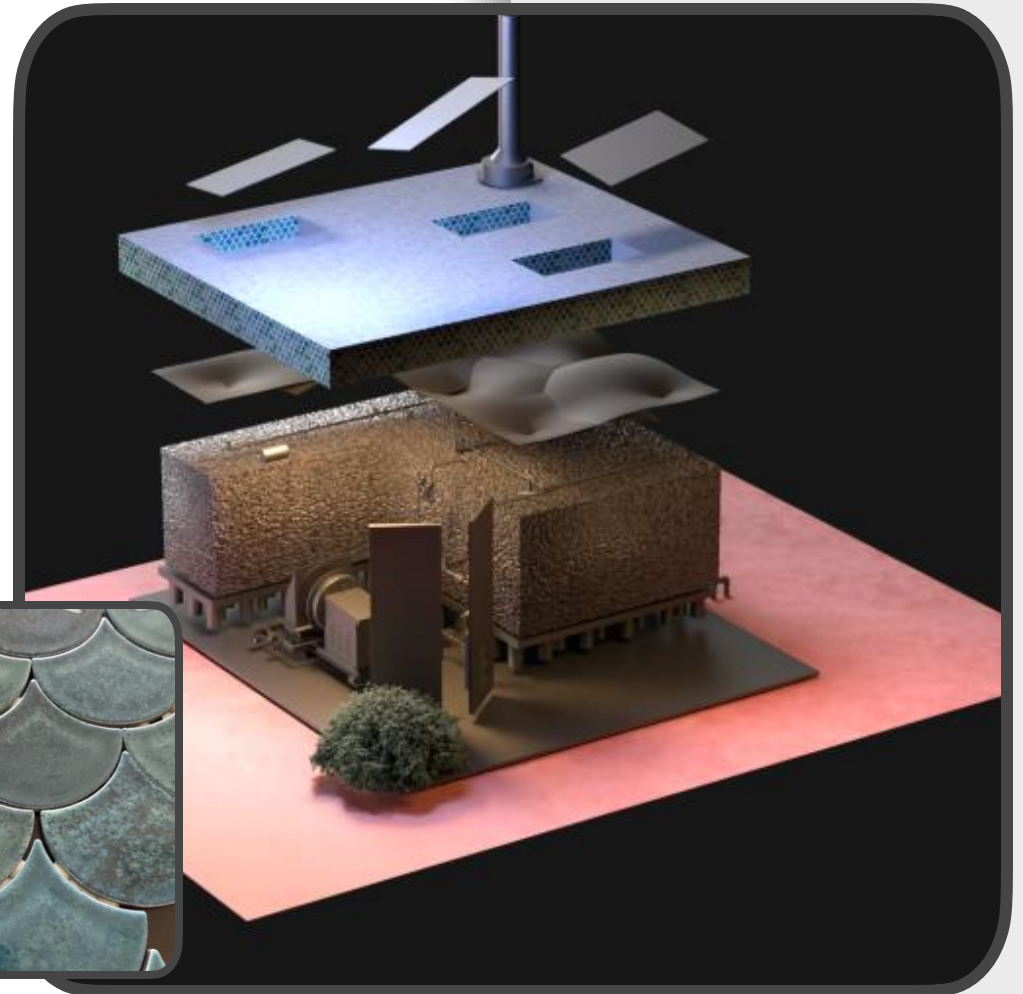
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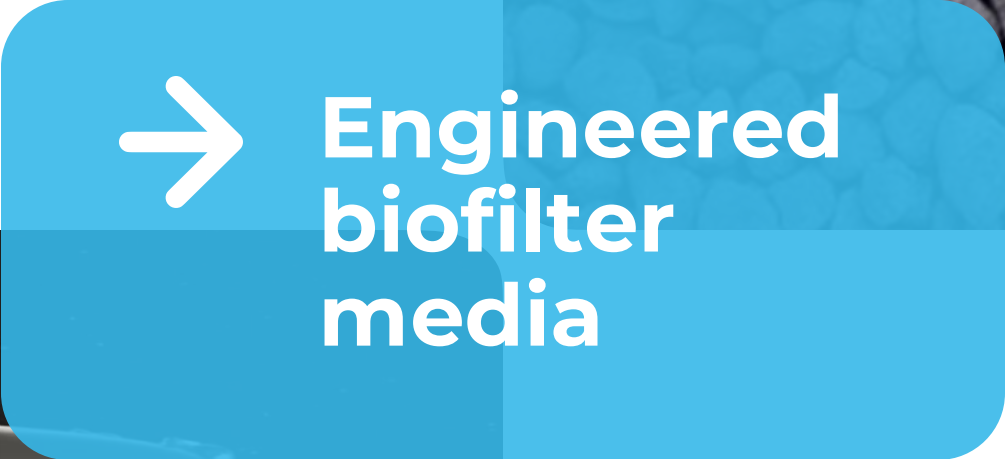
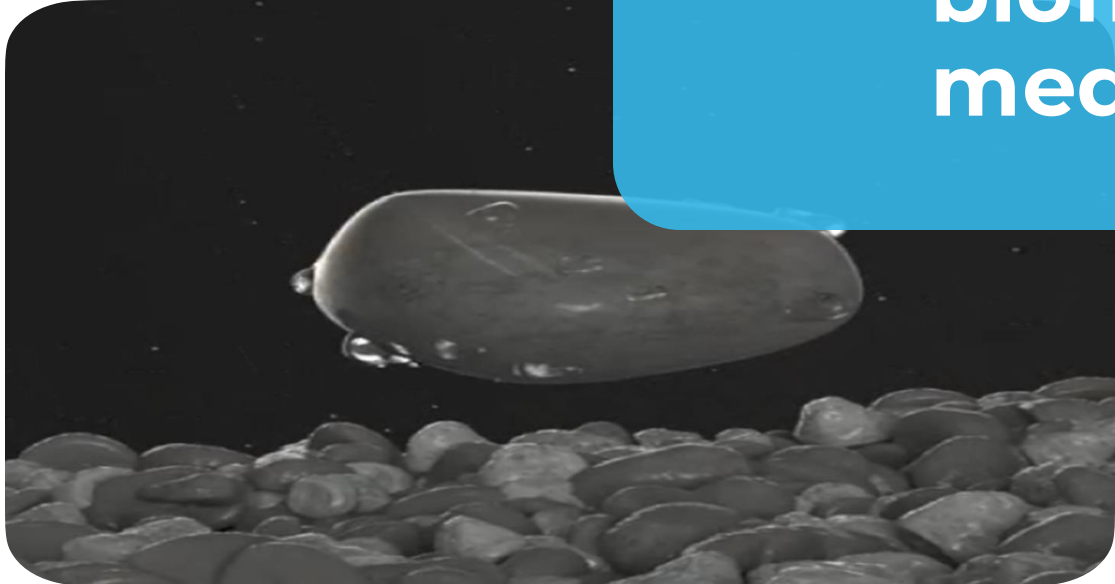
Tile closeup



Artist rendition – exploded view

BIOSORBENS®

- ✓ Developed for H₂S and total odor removal
- ✓ 20-year life expectancy.
- ✓ Energy efficiency and total contaminant destruction



Engineered biofilter media



THE BENEFITS

- ✓ Harnesses the power of mother nature
- ✓ Energy efficient
- ✓ No waste or byproducts produced
- ✓ Low maintenance

CASE STUDIES

Intentionally Unobtrusive Integrated into the landscaping



GRANDVIEW HEIGHTS
British Columbia, Canada

CASE STUDIES

Intentionally Unobtrusive Blends into the Park



ANKENY PUMP STATION
Portland, Oregon

CASE STUDIES

Intentionally Unobtrusive Utilizes available space efficiently



20TH AVENUE PUMP STATION
Salt Lake City, Utah



➔ **Thank you!**



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