



July 10, 2012

BIO-MICROBICS, INC.  
ALLISON BLODIG  
8450 COLE PKWY.  
SHAWNEE KS 66227

Re: Description: SEWAGE TREATMENT APPARATUS (Tier 3- downsizing & vertical separation credit)  
Manufacturer: BIO-MICROBICS, INC.  
**Product Name: RETROFAST® (consolidates two files--20070365, 20080174)**  
**Model Number(s): 0.25 and 0.375**

**Description: Submerged Fixed Film Aerated Treatment System using attached and suspended growth**

**[FOR PERFORMANCE AND DESIGN PARAMETERS, OR MAINTENANCE, INSPECTION AND PUMPING REQUIREMENTS, SEE ATTACHMENT D. FOR SPECIFIC MANUALS, SEE ATTACHMENTS A, B & C.**

**Product File No: 20120241**

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of July 2017.

This approval is contingent upon compliance with the following stipulation(s):

- Installation and servicing of this product must be in accordance with the manufacturer's instructions. A copy of the manufacturer's installation and servicing instructions must be given to the owner of the system.
- This product must be installed in sewage treatment tanks approved by the Department of Safety & Professional Services, Division of Safety and Buildings for use with this product.
- When this product receives wastewater from dwellings, it will produce an effluent quality with a maximum monthly average value for BOD5 of less than or equal to 30 mg/L, TSS of less than or equal to 30 mg/L TSS and F.O.G. of less than 30 mg/L and fecal coliform of less than or equal to 10,000 cfu/100ml.
- Approval is issued for this product because the design of the product meets the intent of s. SPS 383.15 (6), Wis. Adm. Code that requires other types of sewage treatment tanks be constructed in accordance with s. SPS 383.20, Wis. Adm. Code. The intent of the code is met because this product is expected to provide an acceptable means of treating wastewater when it is installed in a properly designed tank.
- Based on testing data submitted and reviewed by the department, this approval recognizes that this plumbing product will reduce the concentration of Total Kjeldal Nitrogen (TKN) up to 70%.
- AS OF MARCH 1, 2009 ALL ELECTRICAL CONNECTIONS FOR PRIVATE SEWAGE SYSTEMS MUST COMPLY WITH S. SPS 316.300 (FORMERLY S. COMM 16.300) WIRING METHODS.

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- For department approved tanks, see listing on-line at [http://dsps.wi.gov/php/sb-ppalopp/prodcode\\_result.php/STATS/SEWAGE\\_TREATMENT\\_APPARATUS\\_&\\_TANK\\_SYSTEM\\_\[SEE\\_STA\\_-\\_SEWAGE\\_TREATMENT\\_APPARATUS\\_\]](http://dsps.wi.gov/php/sb-ppalopp/prodcode_result.php/STATS/SEWAGE_TREATMENT_APPARATUS_&_TANK_SYSTEM_[SEE_STA_-_SEWAGE_TREATMENT_APPARATUS_])
- Additional information is included as attachment(s) to this letter; see attachment A, B, C and D.

**This approval supersedes the approval issued on 3/20/2008 and 10/22/2010, respectively under product file numbers 20070365, 20080174.**

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file numbers 20070365, 20080174.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Jean M. MacCubbin, CST  
Engineering Consultant--Plumbing Products Review  
DSPS WEST, Safety & Buildings Div.  
PO Box 2658  
201 W Washington Ave.  
Madison WI 53703-2658  
M-F 700-330  
Phone: 608-266-0955; Fax: 608-283-7456  
E-mail: Jean.MacCubbin@WI.GOV