

State of North Carolina
Department of Environment
and Natural Resources
Division of Environmental Health

Michael F. Easley, Governor
Sherri Evans-Stanton, Acting Secretary
Linda C. Sewall, Director
Bill Jeter, Chief



May 1, 2003

Robert J. Rebori
Bio-Microbics, Inc.
8450 Cole Parkway
Shawnee, KS 66227
800-753-FAST (3278); Fax: 913-422-0808; www.biomicrobics.com

Subject: Specific Approval of plans and specifications for 500 gallons per day MicroFAST Aerobic Treatment Unit as manufactured by Gamewell Septic Tank Service for use in North Carolina, ATU-27, and comments on proposed 900 gallons per day unit

Dear Mr. Rebori:

We have completed our review of information received from you, on behalf of one of your North Carolina distributors, in support of an application for state approval. Plans and specifications for your 500 gallons per day "MicroFAST" Model No. 23-001-750 (rated for 500 gallons per day), proposed to be installed with a specially constructed precast concrete tank manufactured by Gamewell Septic Tank Service (STB-920), modified as you have proposed on the attached plans, are found acceptable by the On-Site Wastewater Section and is hereby approved under On-Site Wastewater Section Approval Number ATU-27, dated May 1, 2003, in accordance with Rule 15 NCAC 18A .1957(c).

One copy of the plans and specifications bearing the On-Site Wastewater Section stamp of approval is enclosed; one copy is being retained in our permanent files; and separate copies of the letter and approval are being sent to Gamewell Septic Tank Service and the Caldwell County Health Department.

Note: In conjunction with the attached approved plans, all other requirements included in the plans approved by this office September 17, 1997 for ATU-5 remain applicable (other than the proposed tank being manufactured by Gamewell Septic Tank Service instead of Shoaf Precast Septic Tank, Inc.), including the provision of approved risers extending at least 6-inches above finished grade over the central baffle wall (24-inch diameter), over the FAST unit (6-inch, minimum), and over the outlet for sampling (2-inch diameter, minimum); and control panel location, circuitry and enclosure requirements. .

The imprint that will identify the manufacturer, serial number, and capacity of the referenced unit will be GST/BM ATU-27 500. The imprint will be located to the right of the opening on the outlet end of the

February 17, 2005
Page 2 of 2
tank.

Please note that this approval applies only to Aerobic Treatment Units constructed in accordance with approved plans and specifications; and, if found in non-compliance, an operation permit shall not be issued for the installed wastewater system. In addition, all Aerobic Treatment Units shall be watertight and shall be subject to a watertightness test in accordance with local and state environmental health guidelines. All requirements of Rule .1957(c) shall also met, including the requirement for the manufacturer or manufacturer's licensed representative to certify that the system has been properly installed, and for the owner to execute a contract with a certified wastewater treatment facility operator (subsurface and Grade II wastewater certificates required) prior to operation permit issuance.

Your Aerobic Treatment Units must remain approved and listed in accordance with the standards adopted by the National Sanitation Foundation, Inc. for the Class I residential wastewater treatment systems as set out in Standard 40, as amended, pursuant to North Carolina General Statute GS 130A-342, and applicable sections of Rule .1957(c).

Additionally, all unit manufacturers having a North Carolina State approval are subject to periodic, un-announced inspections of their units and manufacturing process by State and local environmental health officials. Should units be found to not be in compliance with state approved plans or with State wastewater rules (15A NCAC 18A .1900 et. seq.), such units may be permanently identified as being unacceptable for use in North Carolina on-site wastewater systems and the manufacturers of such units may face suspension of approval for their units.

As discussed by phone with Mr. Spears on May 1, 2003, the 900 gpd unit cannot be completed at this time until the proposed tank to be used is identified, and upgraded reinforcement is proposed to be used. Reference should be made to the approval given for the 900-gpd unit to Shoaf Precast Septic Tank, Inc. (ATU-6).

If you have any questions pertaining to this approval and review, or if we may be of further service, please feel free to contact us at the phone number and/or address listed on this letterhead.

Sincerely,

Steven Berkowitz, P.E.
On-Site Wastewater Engineering

cc: Robert Spears, Gamewell Septic Tank Service.
Tony Whitt, Caldwell County Health Department
On-Site Wastewater Section, Raleigh and Regional Staff (via email)