

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



January 18, 2001

Mr. Wayne Peyton, Manager
Clearstream Wastewater System, Inc.
P.O. Box 9337
Beaumont, Texas 77709
FAX: 409-755-6500; www.clearstreamsystems.com

Subject: Approval of Plans and Specifications for 500, 600, 750, 1000 and 1500 gallons per day Clearstream Fiberglass Aerobic Treatment Units Models 500-N, 600-N, 750-N, 1000-N, and 1500-N, and Generic Approval of plans and specifications for 500, 600, 750, 1000 and 1500 gallons per day Clearstream Concrete Aerobic Treatment Units Models 500-NC, 600-NC, 750-NC, 1000-NC and 1500-NC for use in North Carolina, ATU-14, 15, 16, 17, 18, 19, 20, 21, 22 and 23

Dear Mr. Peyton:

We have completed our review of information initially received from Clearstream September 5, 2000, and revised information received through January 17, 2000, in support of your application for state approval. Plans and specifications for:

1. Clearstream's Fiberglass Models 500-N (rated for 500 gallons per day), 600-N (rated for 600 gallons per day), 750-N (rated for 750 gallons per day), 1000-N (rated for 1000 gallons per day), and 1500-N (rated for 1500 gallons per day), are found to be acceptable by the On-Site Wastewater Section and are hereby approved under On-Site Wastewater Section Approval Numbers ATU-14, ATU-15, ATU-16, ATU-17 and ATU-18, respectively, dated January 16, 2001, in accordance with Rule 15 NCAC 18A .1957(c). For Model 500-N (ATU-14), the unit shall be preceded by a State-approved septic tank or another settling tank which may subsequently be State-approved with liquid capacity of at least 250 gallons. In accordance with Rule .1957(c)(4), these units which are designed for a daily flow rate of greater than 500 gallons per day shall be preceded by a State-approved septic tank or another settling tank which may subsequently be State-approved with liquid capacity at least equal to the rated capacity of the unit, or 600, 750, 1000 and 1500 gallons, (ATU-15, 16, 17, and 18), respectively.

The imprints that will identify the manufacturer, serial numbers, and capacities of the referenced units will be CWS ATU-14 500; CWS ATU-15 600; CWS ATU-16 750; CWS ATU-17 1000 and CWS ATU-18 1500, respectively. The imprint will be located to the right of the opening on the outlet end of the tank.

2. Generic plans and specifications for your Clearstream Concrete Models 500-NC (rated for 500 gallons per day), 600-NC (rated for 600 gallons per day), 750-NC (rated for 750 gallons per day), 1000-NC (rated for 1000 gallons per day), and 1500-NC (rated for 1500 gallons per day) are found to be **generically** acceptable by the On-Site Wastewater Section and are hereby approved under On-Site Wastewater Section Approval Numbers ATU-19, ATU-20, ATU-21, ATU-22, and ATU-23, respectively, dated January 16, 2001, in accordance with Rule 15 NCAC 18A .1957(c). These units are proposed to be installed within specially constructed precast concrete tanks utilizing forms provided by Clearstream which are designed in accordance with these approved plans. For Model 500-NC (ATU-19), the unit shall be preceded by a State-approved septic tank or another settling tank which may subsequently be State-approved with liquid capacity of at least 250 gallons. In accordance with Rule .1957(c)(4), these units which are designed for a daily flow rate of greater than 500 gallons per day shall be preceded by a State-approved septic tank or another settling tank which may subsequently be State-approved with liquid capacity at least equal to the rated capacity of the unit, or 600, 750, 1000 and 1500 gallons, (ATU-20, 21, 22, and 23), respectively.

Please note that no Concrete Aerobic Treatment Units are to be constructed or used in North Carolina pursuant to this generic approval until the specific manufacturer/distributor for each proposed unit is identified and assigned a unique imprint and serial number. The imprint shall be located to the right of the opening on the outlet end of the tank. Application for specific approval shall be submitted to this office. This must include for each unit the proposed trash trap design (with a liquid capacity of at least 250 gallons per day for the 500 gpd model, and liquid capacity of at least the unit's rated capacity for all larger models).

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 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).

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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.

If you have any questions pertaining to this approval 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: On-Site Wastewater Section, Raleigh and Regional Staff
Farnell Shingleton
Ben Davis