



COMMONWEALTH of VIRGINIA

Karen Shelton, MD  
State Health Commissioner

Department of Health  
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RICHMOND, VA 23218

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March 4, 2024

Mr. Lonnie Welch  
Clearstream Wastewater Systems, Inc.  
P.O. Box 7568  
Beaumont, Texas 77726  
[lonnie@clearstreamsystems.com](mailto:lonnie@clearstreamsystems.com)

VIA ELECTRONIC AND REGULAR MAIL

RE: 50% TN Reduction Approval of Clearstream N Series

Dear Mr. Welch:

We have completed our review of your request for listing of Clearstream's N series (600N, 800N, 1000N, and 1200N) wastewater treatment units as "Generally Approved" under the Virginia Department of Health's (VDH's) GMP #2013-01 for 50% Total Nitrogen (TN) reduction.

The complete submittal for review consists of the following:

1. An application, dated January 29, 2024, for 50% TN reduction approval
2. A letter from NSF, dated November 22, 2006, certifying that the subject units are capable of consistently meeting the TN effluent criteria
3. Spreadsheet of NSF 40 test data for influent and effluent nitrogen components

The submittal was reviewed in accordance with GMP 2013-01. Twenty-six tests were included in the NSF 40 evaluation. The influent and effluent testing results indicate an average TN reduction of 86% (> 50%).

Based on our review, VDH approves the Clearstream 600N, 800N, 1000N, and 1200N for listing as "Generally Approved" for 50% TN reduction under GMP #2013-01. Note that general approval of the 1200N unit applies only when used for a design flow of less than or equal to 1,000 gpd.

If you have any questions, please contact Stephen Elgin at [Stephen.elgin@vdh.virginia.gov](mailto:Stephen.elgin@vdh.virginia.gov) or (804) 263-5263.

Sincerely,

DocuSigned by:  
  
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Lance Gregory  
Director,  
Division of Onsite Water and  
Wastewater Services

Cc: Stephen Elgin, PE, Technical Services Engineer