



COMMONWEALTH of VIRGINIA

Department of Health

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Karen Shelton, MD
State Health Commissioner

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R. Christopher Lindsay
Chief Operating Officer

8/2/2023 | 9:17:58 AM EDT

Jeanne Allen
Regulatory Specialist
Infiltrator Water Technologies
4 Business Park Road
Old Saybrook, CT 06475

Re: Approval of Gravelless Products under 12VAC5-610-930.F
Products: Quick 5 Standard and Quick 5 Equalizer 36 Chambers
Initial Request: April 20, 2022
Additional Information Submitted: October 10, 2022

Dear Ms. Allen:

The Virginia Department of Health engineering staff has completed its review of the above referenced products for approval as a gravelless product under 12VAC5-610-930.F.

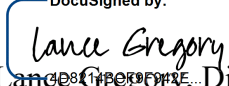
Based upon the information supplied by Infiltrator Water Technologies, the Quick 5 Standard and Quick 5 Equalizer 36 chambers substantially comply with the requirements set forth in 12VAC5-610-930.F and are hereby generally approved as gravelless products. Verification of compliance with the American Association of State Highway and Transportation Officials H-10 loading was provided.

The VDH website will be updated to reflect these additions to the approved gravelless products listing as well as:

- Posting of the updated "Design and Installation Manual for Infiltrator Chambers in Virginia" and dated October 2022.
- The Infiltrator chamber listing will be updated to identify chambers that are approved, but not available in Virginia at this time.

If you have any questions, please contact Marcia Degen at 804-387-1883 or marcia.degen@vdh.virginia.gov.

Sincerely,

DocuSigned by:

Lance Gregory, Director
Division of Water and Wastewater Services

cc: Marcia Degen, Ph.D., P.E., Environmental Technical Services Manager
attachment – Review Memo

Virginia Department of Health

Office of Environmental Health Services

To: Lance Gregory, Division Director
Division of Water and Wastewater Services

From: Marcia Degen, Ph.D., P.E.
Environmental Technical Services Administrator

Date: July 24, 2023

Re: Review of Infiltrator's Quick 5 Standard and Quick 5 Equalizer 26 Gravelless Products

The following information was submitted April 20, 2022:

- Request for approval submitted by Michael Sullivan, PE. Regulatory Project Engineer
- Product illustrations and images
- Engineering opinion of AASHTO H-10 loading
- Design and installation manual dated April 2022
- Draft update of listing of Infiltrator approved gravelless products

VDH comments were relayed September 1, 2022. The comments were (1) why the open bottom per square foot differ between the Quick 4 and Quick 5; (2) Table 1 and Table 3 in the submitted manual do not appear to comply with Table 5.4 of the Sewage Handling and Disposal Regulations 912VAC5-610)

September 28, 2022, David Lentz, P.E. submitted third party testing of the structural load testing.

On October 10, 2022, Jeanne Allen, Regulatory Specialist for Infiltrator, responded to questions and submitted a modified manual to address the issues. The manual is entitled "Design and Installation Manual for Infiltrator Chambers in Virginia" and dated October 2022.

An interim email approval was issued on October 11, 2022, to allow the use of the new design manual and the Quick 5 chambers.

On October 14, 2022, Marcia Degen met with Jeanne Allen to discuss cleanup of the model listing for Infiltrator chambers. Some of the models listed are not available in Virginia, and while Infiltrator wants to maintain the approval, Infiltrator would like those models designated as 'in abeyance' and removed from the public listing. Rather than placing the models as 'in abeyance' and removing them from the listing, VDH will identify those models as approved, but not currently available in Virginia.