



*Commonwealth of Virginia*

***VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY***

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Travis A. Voyles  
Acting Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus  
Director  
(804) 698-4020

May 17, 2022

Mr. David Scott  
Shawcor  
7901 Xerxes Ave. South  
Minneapolis, MN 55431

Transmitted electronically [david.scott@shawcor.com](mailto:david.scott@shawcor.com)

Re: Assignment of Percent Removal Efficiencies for Total Phosphorus  
**HydroChain™ Vortex Filter (HCVF)**

Dear Mr. Scott:

The Department of Environmental Quality (Department or DEQ) received the Proprietary Best Management Practice (BMP) Registration Statement and supporting documentation for the **HydroChain™ Vortex Filter (HCVF)** on March 15, 2022. The Department has reviewed the application and supporting documentation in accordance with § 62.1-44.15:28 of the Code of Virginia and 9VAC25-870-65 D of the Virginia Stormwater Management Program (VSMP) Regulation.

Section 65 D 2 of the VSMP Regulation states, "Any proprietary BMP approved for use after July 1, 2020, must meet the requirements of § 62.1-44.15:28 A 9 of the Code of Virginia." The Department based its decision on the New Jersey Department of Environmental Protection Certification for the **HydroChain™ Vortex Filter (HCVF)**.

The **HydroChain™ Vortex Filter (HCVF)** is approved for use in Virginia to meet the VSMP water quality design criteria requirements and has been assigned a total phosphorus pollutant removal efficiency of **40%**. This information will be posted on the Virginia Stormwater BMP Clearinghouse website. This device and the assigned removal efficiency can be manually added into the Virginia Runoff Reduction Method spreadsheet to demonstrate compliance with VSMP water quality design criteria requirements.

If you have any questions regarding this letter, please contact Robert E. Cooper, P.E. at (804) 965-4875 or e-mail at [Robert.Cooper@deq.virginia.gov](mailto:Robert.Cooper@deq.virginia.gov).

Sincerely

A handwritten signature in blue ink that reads "Erin Ervin Belt".

Erin Ervin Belt  
Office of Stormwater Management