



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

www.deq.virginia.gov

Stefanie K. Taillon
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director

August 19, 2025

Sarah Matin
Water Quality Manager-Southeast
Advance Drainage Systems, Inc.
4640 Trueman Blvd.
Hilliard, OH 43026

Re: Assignment of Percent Removal Efficiencies for Total Phosphorous
Arcadia™ Hydrodynamic Separator

Transmitted electronically: sarah.matin@adspipe.com

Dear Ms. Matin,

The Department of Environmental Quality (DEQ) received the Proprietary Best Management Practice (BMP) Registration Statement and supporting documentation for the **Arcadia™ Hydrodynamic Separator** on August 12, 2025. DEQ has reviewed the application and supporting documentation in accordance with § 62.1-44.15:28 of the Virginia Erosion and Stormwater Management Act (VESMA), 9VAC25-875-590 of the attendant regulation and 8.4.1 of the Virginia Stormwater Management Handbook.

9VAC25-875-590.D 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.” DEQ has obtained the current General Use Level Designation (GULD) certificate from Washington State’s Technology Assessment Protocol – Ecology (TAPE) program or the current certification from the New Jersey Department of Environmental Protection (NJDEP) for the **Arcadia™ Hydrodynamic Separator**.

The **Arcadia™ Hydrodynamic Separator** is approved for use in Virginia to meet the VESMA water quality design criteria requirements and has been assigned a total phosphorus (TP) pollutant removal efficiency of **20%** at a filtration hydraulic loading rate of 60.0 gpm/ft². 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 (VRRM) spreadsheet to demonstrate compliance with VESMA water quality design criteria requirements.

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If you have any questions regarding this letter, please contact Tony Angueira at (804) 584-6265 or by e-mail at antony.angueira@deq.virginia.gov.

Sincerely,

A handwritten signature in black ink that reads "April Rhodes". The signature is written in a cursive, flowing style.

April Rhodes
Program Manager, Office of Stormwater Management
Virginia Department of Environmental Quality
1111 East Main Street, Suite 1400
Richmond, Virginia 23219
(804) 698-4000

cc: OSWM, DEQ-CO