

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

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August 13, 2014

David K. Paylor Director

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Ms. Lisa Lemont, CPSWQ Hydro International 94 Hutchins Drive Portland, Maine 04102

Re: Assignment of Percent Removal Efficiencies for Total Phosphorus

Dear Ms. Lemont,

Molly Joseph Ward

Secretary of Natural Resources

Thank you for your submittal of the Manufactured Treatment Device (MTD) Registration Form and supporting documentation for the Up-Flo Filter® with CPZ media. The MTD information provided was reviewed for the purpose of assigning a pollutant removal efficiency for total phosphorus (TP). This review was performed in accordance with the Guidance Memo Number 14-2009 titled "Interim Use of Stormwater Manufactured Treatment Devices (MTDs) to meet the new Virginia Stormwater Management Program (VSMP) Technical Criteria, Part IIB Water Quality Design Requirements". The review process included the analysis of the documents submitted and any other publically available reports.

In addition to the registration form, a performance study was also submitted for review. This study is in support of the approval letter from the State of New Jersey that certifies the Up-Flo Filter[®] with CPZ media has a removal rate of 80% total suspended solids. Consistent with Guidance Memo Number 14-2009, the Up-Flo Filter[®] with CPZ media is receiving an event mean concentration percent TP removal efficiency of 40%. If in the future TP data is submitted, the Department will review and determine if an increase in the removal efficiency is justifiable to the maximum allowable removal efficiency of 50%. As stated in the guidance memo, this information will be posted on the Virginia Stormwater Clearinghouse website. This MTD and the assigned removal efficiency can be manually added into Virginia Runoff Reduction spreadsheet to demonstrate compliance with Runoff Reduction Method.

If you have any questions regarding this information, please contact Robert E. Cooper, P.E. at (804) 698-4033 or e-mail at Robert.Cooper@deq.virginia.gov.

Sincerely

Fred K. Cunningham

Director

Office of Water Permits