

Date: November 23, 2016

From: Norm Goulet, Chair, Urban Stormwater Work Group  
Tom Schueler, Chesapeake Bay Stormwater Coordinator

To: Matt Johnston and Lucinda Powers, EPA, CBPO  
Ted Tesler, Chair, Watershed Technical Work Group  
James Davis Martin, Co-Chair,  
Water Quality Goal Implementation Team

Re: Transmittal of USWG-Approved Continuous Monitoring and  
Adaptive Control (CMAC) Retrofit Variation.

## **Background**

On November 15, the USWG unanimously approved a proposal to credit the Continuous Monitoring and Adaptive Control (CMAC) technique for retrofitting existing stormwater BMPs, pursuant to the previously approved Stormwater Retrofit Expert Panel Report. The technique utilizes sensors to make real time weather forecasts to make automated decisions to actively manage stormwater storage and flows within existing stormwater ponds to improve their pollutant removal performance.

The CMAC proposal directly maps into two currently approved stormwater retrofit categories:

- (1) enhancement of existing BMPs or,
- (2) conversion of existing BMPs

A description of the CMAC approach and the rationale for integrating it into the retrofit credit system is provided in Attachment A.

The proposal is being forwarded to your committees for informational purposes only, and it is our understanding that no formal action or approval is needed under the BMP review protocol. A few other notes about the CMAC retrofit proposal are provided below:

- CMAC technology can be either proprietary or non-proprietary in nature.
- No additional BMP reporting data are needed for CMAC retrofits beyond the current retrofit reporting requirements that were previously approved by the WTWG and WQGIT.
- No changes in credit duration or retrofit verification are needed to accommodate the CMAC retrofit proposal.

Please do not hesitate to contact us if you have any questions or concerns.