

## ALTERNATIVE E&S AND PCSM BMPs

Revised, December 13, 2018  
Version 1.3

### Introduction

The Pennsylvania Department of Environmental Protection (DEP) and delegated county conservation districts (CCDs) periodically receive requests for alternative best management practices (BMPs) as part of applications or Notices of Intent (NOIs) for erosion and sediment control (E&S) permits and NPDES permits under 25 Pa. Code Chapter 102. E&S BMPs and design standards are identified in DEP's *Erosion and Sediment Pollution Control Program Manual* ("E&S Manual") (363-2134-008). DEP's regulations at 25 Pa. Code §§ 102.4(b)(7) and 102.11(b) provide that DEP may approve alternative E&S BMPs (not identified in the E&S Manual). Post-construction stormwater management (PCSM) BMPs and design standards are identified in DEP's *Stormwater Best Management Practices Manual* ("Stormwater BMP Manual") (363-0300-002). DEP's regulations (25 Pa. Code § 102.11(b)) also recognize that DEP may approve alternative PCSM BMPs (not identified in the Stormwater BMP Manual).

The purpose of this document is to identify the alternative BMPs that have been reviewed by DEP and provide the results of that review. Applicants may utilize this information during the design and BMP selection phase of project development. If an alternative BMP in this document has been approved by DEP and is selected for an earth disturbance project, the reviewer of the permit application may accept the BMP as approved under Chapter 102 and no further review by DEP is necessary unless the reviewer believes the proposed BMP differs from the BMP described in this document.

This document will be updated periodically as new alternative BMPs are reviewed. Note that all alternative BMPs reviewed by DEP are listed – both those that are approved and those that have been disapproved. There are three tables of BMPs in this document: 1) Approved Alternative E&S BMPs; 2) Disapproved Alternative E&S BMPs; and 3) Approved Alternative PCSM BMPs. The following describes the columns in each table:

- **Alternative BMP** – The general name of the alternative BMP.
- **Comments** – DEP's review comments on the alternative BMP.
- **ABACT (HQ/EV) (used in E&S tables only)** – antidegradation best available combination of technologies. For stormwater discharges in watersheds classified as High Quality (HQ) or Exceptional Value (EV) under Chapter 93, ABACT must be used if non-discharge alternatives are not available. The table identifies whether the listed alternative BMP qualifies as ABACT in HQ and EV watersheds ("Yes" or "No").
- **Function (used in PCSM table only)** – The function of the BMP in relation to stormwater: Water Quality (WQ), Rate Control (RC), Volume Control (VC), and/or Recharge.
- **DEP Review Date** – The date on which DEP finalized its review of the alternative BMP.
- **Example** – If applicable, DEP will list the name of a product or technology that illustrates an example of the listed alternative BMP and, if available, provide a link to the product or technology.

**NOTE** – The identification of an example product or technology is not an endorsement by DEP of the product or technology, and is provided solely to assist the reviewer in understanding the BMP reviewed by DEP.

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**New Alternative BMP Proposals**

To request that DEP's Bureau of Clean Water review a new alternative E&S or PCSM BMP, the applicant of a project seeking to use the alternative BMP or the manufacturer of the BMP must complete and submit the **Alternative BMP Submission Form** ([Word](#)) ([PDF](#)) to DEP. DEP will not review an alternative BMP without receipt of a complete Alternative BMP Submission Form and all applicable attachments as specified on the checklist to that form.

Completed forms should be sent via email to [RA-EPALTERNATIVEBMP@pa.gov](mailto:RA-EPALTERNATIVEBMP@pa.gov). DEP highly recommends that the alternative BMP review be completed prior to an applicant proposing the BMP in a permit application for a specific project. DEP attempts to complete all reviews of alternative BMPs within 90 days of receipt of a complete form and attachments.

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Alternative E&S BMP	Description	ABACT - HQ	ABACT - EV	DEP Review Date	Example
Portable Sediment Tank w/Inclined planes for sediment removal	Tests have shown this BMP to be more effective than a sediment filter bag along with the capabilities to remove oils from the flow.	Yes	Yes	6/14/2014	<a href="#">Aqualete WTS2000</a>
Sump & Compost Filter Sock at Waterbar Outlet on Utility Lines	Used to filter runoff from ROW before being discharged.	Yes	Yes	8/27/2014	<a href="#">Example Diagram</a>
Float Skimmer Attached to Ridged Pipe	Information submitted shows device effectively regulated discharge from impoundments	Yes	Yes	9/02/2014	<a href="#">Marlee Float™ Skimmer</a>
Inlet Filter Mat	Coir mat that is a replacement for an Inlet Filter Bag. Tests show that the mat meets removal efficiencies of Inlet filter bags.	Yes	No	4/18/2016	<a href="#">Diamond Sock Inlet Filter Mat</a>
Prefabricated HDPE channels	Prefabricated HDPE channel sections will not erode and can be easily cleaned and maintained.	No	No	8/09/2016	<a href="#">SmartDitch</a>
Alternative Rock Construction Entrance (has an additional 50' (non-special protection) or 100' (special protection) of rolled 2RC)	The rolled 2RC will provide a stable surface to turn into, helping to preventing tires from getting stuck while entering. Will also help to eliminate the AASHTO #1 from being drug onto the road.	Yes	Yes	12/01/2016	<a href="#">Example Diagram</a>