

ALTERNATIVE E&S BMPs and PCSM SCMs

Revised, February 11, 2026

Introduction

The Pennsylvania Department of Environmental Protection (DEP) and delegated county conservation districts (CCDs) periodically receive requests for alternative erosion and sediment control (E&S) best management practices (BMPs) as part of applications or Notices of Intent (NOIs) for Chapter 102 permits. 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) stormwater control measures (SCMs) 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 SCMs (not identified in the Stormwater BMP Manual).

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

This document will be updated periodically as new alternative BMPs/SCMs are reviewed. Note that all alternative BMPs/SCMs 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 SCMs. The following describes the columns in each table:

- **Alternative BMP** – The general name of the alternative BMP or SCM.
- **Comments** – DEP's review comments on the alternative BMP or SCM.
- **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 SCM in relation to stormwater: Water Quality (WQ), Rate Control (RC), and/or Volume Management (VM).
- **DEP Review Date** – The date on which DEP finalized its review of the alternative BMP or SCM.
- **Example** – If applicable, DEP will list the name of a product or technology that illustrates an example of the listed alternative BMP/SCM 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/SCM 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 BMP or PCSM SCM, the applicant of a project seeking to use the alternative BMP/SCM or the manufacturer of the BMP/SCM must complete and submit the **Alternative BMP Submission Form** ([Word](#)) ([PDF](#)) to DEP. DEP will not review an alternative BMP/SCM 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. DEP highly recommends that the alternative BMP/SCM review be completed prior to an applicant proposing the BMP/SCM in a permit application for a specific project. DEP attempts to complete all reviews of alternative BMPs/SCMs within 90 days of receipt of a complete form and attachments.

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Approved Alternative E&S BMPs

| Alternative E&S BMP | Description / Comments | ABACT – HQ | ABACT – EV | DEP Review Date | Example |
|--|---|---------------|---------------|-----------------------|---|
| Use of Wood Chips in Compost Socks | Tests show wood chips are as effective as compost for filtering sediment. | Yes | No | 4/1/2012 | Refer to Page 65 of the E&S Manual for compost sock installation. |
| Use of Kiln Dried Wood Chips in Compost Socks | Tests show kiln dried wood chips are as effective as compost for filtering sediment. This should follow the same standards as a compost sock. | Yes | Yes | 12/14/2020 | Siltworm |
| Use of Switchgrass in Compost Socks | Tests show switchgrass is as effective as compost for filtering sediment. This is a direct replacement for compost sock and should follow the same standards. Additionally, a sock can be filled with a combination of switchgrass and compost. There is no restriction on the ratio of switchgrass to compost. | Yes | Yes | 3/1/2017, 5/8/2019 | Big Switch Sock SwitchSock |
| Use of Switchgrass/Corn Stover mix in Compost Filter Socks | Testing shows that the addition of Corn Stover in amounts up to 25%, by volume, does not change the filtering characteristics of the filter sock compared to compost filter sock. This filter sock should follow the slope lengths shown in Figure 4.2 and sock fabric specifications in Table 4.1 of the E&S Manual. | Yes | Yes | 9/14/2021 | |
| Use of Rice Hulls in Compost Filter Socks | Testing shows that rice hulls when used as a filler material for filter sock provides a high level of TSS removal and provides the secondary benefit of hydrocarbon removal. This filter sock is a direct replacement for compost filter socks and should follow the slope lengths shown in Figure 4.2 and sock fabric specifications in Table 4.1 of the E&S Manual. | Yes | Yes | 9/14/2021 | |

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| Alternative E&S BMP | Description / Comments | ABACT – HQ | ABACT – EV | DEP Review Date | Example |
|------------------------------|--|---------------|---------------|--------------------|--|
| Trenchless Curved Silt Fence | Trenchless Curved Silt Fence as a perimeter E&S BMP utilizes a trenchless installation and a curved design for stability. This technology is considered equivalent to Reinforced Silt Fence when a 25-inch design height is used with a stake embedment depth of 12 inches and with 8-foot spacing; and equivalent to Super Silt Fence when a 28-inch design height is used with a stake embedment depth of 18 inches and with 4-foot spacing. The slope length charts for Reinforced Silt Fence (25-inch height) and Super Silt Fence (28-inch height) in the E&S Manual should be used. | N/A | N/A | 10/22/21 | New Pig Trenchless Curved Silt Fence Installation & Maintenance |
| Composite Filter Fence | Testing shows that this filter fence product results in water quality treatment equivalent to a compost filter sock. This composite filter fence, CFF, is 28-in. above the surface of the ground, with the material trenched into the existing soil (similar to silt fence) or the optional trenchless installation method may be used. This filter fence is supported by spaded stakes at 5-ft. spacing. The 28-in. filter fence will use slope lengths equivalent to a 32-in. compost filter sock from the PA DEP E&S Pollution Control Program Manual 2012, figure 4.2 . Additional sizes available are 16-in CFF using 18-in filter sock slope lengths, 21-inch CFF using 24-inch filter sock slope lengths, and 48” using the super silt fence slope lengths (figure 4.3 from the E&S manual 2012). | Yes | Yes | 10/29/2024 | Siltron Fence - MKB Enterprises |

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| Alternative E&S BMP | Description / Comments | ABACT - HQ | ABACT - EV | DEP Review Date | Example |
|---|---|---------------|---------------|--------------------|---|
| Multi-Layer Geotextile Filter Fence | Testing provided shows that this filter fence product results in water quality equivalent to a compost filter sock. This filter fence is 16-in., 21-in. or 28-in. above the surface of the ground, with the material trenched into the existing soil (similar to silt fence). This filter fence is supported by spaded stakes at 5-ft. spacing. The 16-in. filter fence will use slope lengths equivalent to an 18-in. compost filter sock; the 21-in. filter fence will use slope lengths equivalent to a 24-in. compost filter sock; the 28-in. filter fence will use slope lengths equivalent to a 32-in. compost filter sock. | Yes | Yes | 8/22/2018 | Siltron Fence - MKB Enterprises (Siltron Details) |
| Chinking sock or toe sock | A 4" filter sock, compost or switchgrass, that is used in place of the blown in material for sock placement. Cotton or other material listed on the fabric specifications for a sock (Table 4.1) may be used. Contact between the chinking sock the large sock and the ground should be managed by staking at a 10' max spacing using a 1"x1"X18" min stake. It is desirable to also pinch the chinking sock between the ground and the large sock (see example). | N/A | N/A | 9/5/2018 | BEG Chinking Sock Detail |
| Belted Strand Retention Fabric Fence (in lieu of Standard Silt Fence) | In field use, it appears to be as effective as standard silt fence. | No | No | 4/1/2012 | Silt Saver BSRF |
| Stacking Compost Socks to equal larger diameter Compost Socks | Stacking of socks has already been approved when used in compost sock traps. | Yes | Yes | 4/1/2012 | Refer to Page 35 of the E&S Manual for proper stacking. |
| Foam Trench Breakers | This BMP has already been approved by FERC and was successfully demonstrated in a field test. | N/A | N/A | 10/1/2011 | Spray Foam Solutions |

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| Alternative E&S BMP | Description / Comments | ABACT - HQ | ABACT - EV | DEP Review Date | Example |
|---|---|---------------|---------------|--------------------|---|
| Public street sweeping with a vacuum sweeper and rolling of dirt and gravel roads at the end of each workday (or more frequently as needed); manual cleaning of tires prior to site egress. | Topography or the absence of electricity and water can make wash racks infeasible in some locations. Vacuum sweepers can remove accumulated sediment from streets before it is washed into surface waters. Tires can be cleaned off manually with a broom prior to exiting. Rolling of dirt roads can stabilize areas affected by tracked mud. Requires continuous maintenance. This alternative BMP is a substitute for wash racks in special protection watersheds. | Yes | Yes | 8/1/2012 | |
| Use of Forebays and Turbidity Barriers (i.e., Silt Curtains) in lieu of Required Surface Area for Sediment Basins | Already approved for traps. Fulfills the purpose for increased surface area, making sediment basins more efficient and reducing thermal pollution. If Turbidity Barriers are used, they must conform to the specifications in DEP's E&S Manual. | Yes | Yes | 8/1/2012 | Refer to Page 177 of Chapter 6 of the PA Stormwater BMP Manual for forebay design recommendations |
| Sock Diversions | Approved conditional upon infill material being modified to reduce permeability and promote vegetative growth. | N/A | N/A | 12/12/2012 | Filtrexx MKB Diversion Sock |
| HDPE Composite Mat for wetland crossings | Tests show product to be safe, non-toxic, and stable. Product is easily transported, stored, and installed, and it is reusable. | N/A | N/A | 9/13/2013 | Dura-Base® Mat |
| Staked Compost Sock Ring surrounding pumped water filter bag | Compost sock ring will increase efficiency of sediment removal of the pumped water filter bag while providing additional water quality benefits. | Yes | Yes | 10/10/2013 | Example Diagram |

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| Alternative E&S BMP | Description / Comments | ABACT – HQ | ABACT – EV | DEP Review Date | Example |
|---|--|---------------|---------------|--------------------|---------------------------------------|
| Filter inserts for Cross Culverts | For use as a backup BMP in culverts or other pipes when used per manufacturer’s recommendations. A recommended maximum tributary drainage area = 1 acre. Filter insert should be used in conjunction with other sediment control/removal BMPs, not as the sole BMP for a disturbed area. Filter inserts should only be used where sufficient area exists to allow for ponding of water above the pipe. Filter inserts alone are not ABACT, but can be used to raise another non-ABACT BMP (e.g., silt fence) to ABACT for HQ (but not EV). | No | No | 11/12/2012 | Sedjacket™ |
| Curled Wood Sediment Logs | This BMP was already approved for use in other watersheds. The evidence supports their use as ABACT for HQ. Sediment removal potential is high compared to other similar BMPs. Since the water quality benefits derived from compost socks is not provided, ABACT designation is not extended to EV watersheds. | Yes | No | 12/18/2012 | Curlex® Sediment Log® |
| Inverted Discharge Rate Skimmer | For use as a dewatering skimmer in sediment basins and traps where peak flows must be delayed to avoid flooding downstream. | Yes | Yes | 1/30/2013 | Reverse Q Pond Outlet |
| Compost Sock Diversions in lieu of Waterbars on surface waterline ROWs for Oil & Gas drilling | Usually no earthmoving during installation of surface waterlines, so no material from which to construct waterbars. Clearing/grubbing in wooded areas means protective cover removed from soils, so BMP needed to direct runoff off ROW. | No | No | 2/13/2013 | Example Diagram |
| 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 | Aqualete WTS2000 |

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| Alternative E&S BMP | Description / Comments | ABACT - HQ | ABACT - EV | DEP Review Date | Example |
|---|---|-----------------------|-----------------------|----------------------------|---|
| Sump & Compost Filter Sock at Waterbar Outlet on Utility Lines | Used to filter runoff from ROW before being discharged. | Yes | Yes | 8/27/2014 | Example Diagram |
| Float Skimmer Attached to Ridged Pipe | Information submitted shows device effectively regulated discharge from impoundments | Yes | Yes | 9/2/2014 | Marlee Float™ Skimmer |
| 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. This filter mat is limited to a drainage area of ½ acre, equivalent to an Inlet Filter Bag. | Yes | No | 4/18/2016 | Blackhawk Inlet Filter Mat |
| Inlet Filter Mat | Coir and textile mat that lies on top of the inlet and is held in place by magnets. The mat is a replacement for an Inlet Filter Bag. This filter mat is limited to a drainage area of ½ acre, equivalent to an Inlet Filter Bag. | Yes | Yes | 12/18/26 | Grizzly Storm Drain Filter Mat Sediment & Oil Control |
| Inlet Filter Mat | Fabric mat the rests on top of the inlet grate held in place with strong magnets. The testing showed the mat meets the removal efficiencies of Inlet Filter Bags. This filter mat is limited to a drainage area of ½ acre, equivalent to an Inlet Filter Bag. | Yes | No | 8/9/23 | Flo-Water EZ-Flo, EZ-Flo CC, EZ-Flo OF, and EZ-Flo CCOF |
| Prefabricated HDPE channels | Prefabricated HDPE channel sections will not erode and can be easily cleaned and maintained. | No | No | 8/9/2016 | SmartDitch |
| Alternative Rock Construction Entrance (has a combination of 2RC and AASHTO #1) | The rolled 2RC will provide a stable surface to turn into, helping to prevent tires from getting stuck while entering. Will also help to eliminate the AASHTO #1 from being drug onto the road. | Yes | Yes | 12/1/2016 | Example Diagram |

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| Alternative E&S BMP | Description / Comments | ABACT - HQ | ABACT - EV | DEP Review Date | Example |
|---|--|---------------|---------------|--------------------|---|
| Compost Filter Sock J-Hook | <p>A Compost Filter Sock J-Hook is when a compost filter sock is turned to create a J shape, with the J-Hook usually being at the downslope end of a diversion.</p> <p>In order for the Compost Filter Sock J-Hook to be an alternative BMP, the straight portion of the J-Hook is to be sized/designed as a diversion berm and the hook portion of the J-Hook is to be sized/designed as a compost sock sediment trap.</p> | Yes | Yes | 5/8/2019 | Example Diagram |
| Heavy-duty Woven Geotextile Sediment Fence | <p>Testing shows that this sediment fence product results in water quality equivalent to silt fence. This sediment fence is 30-in. or 34-in. above the surface of the ground, with the sediment fence trenched 6-in. or 8-in., respectively, into the existing soil (similar to silt fence). The 30-in. sediment fence is supported by wooden stakes spaced every 8-ft., while the 34-in. sediment fence is supported by galvanized steel posts and wooden stakes alternating every 5-ft. The 30-in. sediment fence will use slope lengths equivalent to reinforced silt fence, and the 34-in. sediment fence will use slope lengths equivalent to super silt fence.</p> | No | No | 12/12/2018 | <p>Friendly Environment SMARTfence® 36 and SMARTfence® 42</p> |
| Portable plastic barrier primarily used to contain or divert flood water, stormwater, and sediment laden flows. | <p>The barriers are rotationally molded, water filled structural components of a stormwater /erosion system. The product is wrapped with 6-8-ounce geotextile fabric and the sections are linked together. The product may be used as the embankment for sediment basins and traps.</p> | No | No | 5/17/2023 | MuscleWall |

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| Alternative E&S BMP | Description / Comments | ABACT – HQ | ABACT – EV | DEP Review Date | Example |
|---|---|---------------|---------------|--------------------|---|
| Soil Binders and Flocculants with Polyacrylamides | <p>The use of soil binders and flocculants containing polyacrylamides (PAMs) can be effective for stabilizing steep slopes and other disturbed areas when used properly and in accordance with manufacturer’s recommendations. Soil binders with PAMs can be used in conjunction with hydraulic blankets; however, the hydraulic blankets should have a minimum functional longevity of at least one year.</p> <p><u>The following uses do not require Bureau of Clean Water approval before use:</u> Any use of anionic PAMs where treated stormwater will flow into a sediment trap or basin.</p> <p><u>The following uses require Bureau of Clean Water approval before use:</u> Any use of anionic PAMs where treated stormwater will flow directly to surface waters or storm sewers without settlement in a sediment trap or basin, or application directly to sediment traps or basins.</p> <p><u>The following uses are prohibited:</u> The use of any flocculant or material containing cationic PAMs for stormwater treatment.</p> <p>NOTE – Upon cessation of earth disturbance activities the permittee is expected to properly dispose of all sediment or material containing PAMs collected in sediment trap(s) or basin(s).</p> | Yes | Yes | 8/31/2018 | Refer to Page 276 of the E&S Manual for additional guidance on the use and application of PAMs. |

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Disapproved Alternative E&S BMPs

| Alternative E&S BMP | Description | ABACT – HQ | ABACT – EV | DEP Review Date | Example |
|--|---|---------------|---------------|-----------------|---------|
| Solid panels for use as sediment barrier/diversion | Not permeable enough to let runoff through in sufficient quantities to prevent overtopping, and not totally impermeable to prevent uncontrolled runoff. | N/A | N/A | 10/1/2011 | |
| Temporary Diversion Fence (used to channelize and convey runoff) | Temporary fabric is not durable enough and could get torn by debris being conveyed in the channel. Animals could easily compromise the fabric by forming holes in the material. | No | No | 4/18/2016 | |

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Approved Alternative PCSM SCMs

| Alternative PCSM SCM | Description | Function | DEP Review Date | Example |
|---|---|----------|-----------------|--|
| Inlet Filter Bags with Metal Frames configured to fit the Inlet | Information provided showed such bags can remain functional during high runoff conditions conventional inlet filter bags. | WQ | 2/13/2013 | FlexStorm |
| Buoyant Flow Control Devices (BFDs) | Information submitted shows device effectively regulates discharges from impoundments. These devices should be used according to manufacturer's specifications. | RC | 12/17/2014 | Thirsty Duck Constant Q – Lane Enterprises |
| Flat Gravel Pad Detention | Use of subsurface rock to store stormwater under a Well Pad. <u>This is for rate control only.</u> Water quality is to be handled with a different SCM. | RC | 3/07/2017 | Flat Gravel Pad Details |
| Jellyfish Filter | <p>Jellyfish Filter, manufactured by Contech Engineered Solutions, is a stormwater quality treatment technology featuring high flow pretreatment and membrane filtration. This product has been evaluated and determined to have the following pollutant removal efficiencies: 85% for TSS, 50% for TP, and 38% for TN.</p> <p>This device should be used according to manufacturer's specifications.</p> | WQ | 12/13/2018 | Contech Engineered Solutions Jellyfish Filter |

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| Alternative PCSM SCM | Description | Function | DEP Review Date | Example |
|-------------------------------|--|----------|-----------------|---|
| Managed Release Concept (MRC) | <p>MRC provides for the controlled release of a portion of the stormwater captured by an SCM, preferably vegetated, at a rate similar to the lateral unsaturated flow to surface waters from undeveloped areas, and management of the post-construction 2-year peak flow back to the pre-construction 1-year peak flow. A PA-licensed Professional Engineer must design any SCM that uses MRC. MRC may be used only under limited situations.</p> <p>NOTE – The MRC Spreadsheet or MRC Simplified Design Spreadsheet (as applicable) must be used for all MRC SCMs starting March 8, 2025. Until then DEP/CCD will accept either the spreadsheets or the MRC Design Summary Sheet (Word / PDF).</p> <p>Important links:</p> <ul style="list-style-type: none"> • MRC Concept Paper • MRC Simplified Design Spreadsheet (XLSX) – Complete for each SCM <u>meeting</u> MRC Simplified Design Standards • MRC Spreadsheet (XLSM) – Complete for each SCM <u>not meeting</u> MRC Simplified Design Standards • MRC Spreadsheet Instructions • MRC Frequently Asked Questions • MRC Design Examples | VM, WQ | 11/18/2024 | See MRC Concept Paper for illustrations |
| End of Pipe Unit | <p>Modular Filtration Unit that utilizes ABtech Industries Smart Sponge technology. This product has been evaluated and determined to have the following pollutant removal efficiencies: TSS 80% and TP 50%.</p> <p>This device should be used according to manufacturer’s specifications.</p> | WQ | 1/2/2019 | EOP Unit -AbTech |

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| Alternative PCSM SCM | Description | Function | DEP Review Date | Example |
|---|---|----------|-----------------|---|
| SmartPAK | <p>Modular filtration cartridges designed for use in smart vault and point treatment applications. The SmartPAK utilizes AB Tech Industries Smart Sponge technology. This product has been evaluated and determined to have the following pollutant removal efficiencies: TSS 80% and TP 50%.</p> <p>This device should be used according to manufacturer's specifications.</p> | WQ | 1/2/2019 | Smart Pak AbTech Industries |
| Up-Flo Filter CPZ Media | <p>Up-Flo Filter CPZ Media uses a treatment train that incorporates gravitational separation of floating and settling materials, screening and filtration of stormwater flows.</p> <p>Removal efficiencies for Up-Flo Filter CPZ Media: TSS 80%, TP 48% and TN 39%.</p> | WQ | 9/4/2020 | Up-Flo Filter CPZ Media |
| Ultra Urban Filter with Smart Sponge technology | <p>The Ultra-Urban Filter is a modular filtration unit designed in a variety of shapes and sizes for use in curb opening and grated inlet storm drains. This product is approved for use with AB Tech Industries Smart Sponge technology. The device should be installed and maintained according to the manufacturer's specifications.</p> <p>Removal efficiencies: TSS 80% and TP 50%</p> | WQ | 12/14/2020 | Ultra Urban Filter with Smart Sponge technology AbTech Industries |
| Kraken™ Filter | <p>The Kraken™ Membrane Filtration System provides a maximum amount of filtration surface area in a compact footprint. The system uses built-in pretreatment followed by high surface area membrane filtration to target particulate pollutants in stormwater.</p> <p>Removal efficiencies: TSS 80% and TP 50%</p> | WQ | 9/9/2021 | Contech Kraken |

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| Alternative PCSM SCM | Description | Function | DEP Review Date | Example |
|--------------------------------|--|----------|-----------------|----------------------------------|
| Stormwater Drainage Well (SDW) | <p>SDWs are systems involving discharge of effectively treated stormwater to a receiving bedrock aquifer. These systems are most common in areas with carbonate geology and can be an approvable alternative PCSM SCM when the guidelines are followed. Due to their inherent complexity, SDWs can be a costly alternative that may be impractical at many sites. Prospective applicants should schedule a pre-application meeting with DEP’s Major Projects Permitting Division to discuss their project (https://www.pa.gov/agencies/dep/programs-and-services/permitting-coordination/mppd). A key distinction with SDWs compared to other PCSM SCMs is that a PA-licensed Professional Engineer and Professional Geologist must design any SDW system. As noted, SDWs may be used only under limited situations.</p> <p>Important links:</p> <ul style="list-style-type: none"> • Stormwater Drainage Wells as a Post-Construction Stormwater Management (PCSM) Best Management Practice (BMP) • Supplementary Geology and Groundwater Information for Stormwater Drainage Wells (Word) <p>Improved sinkholes are related but significantly different than SDWs. Improved sinkholes are not a PCSM SCM in their own right though in certain situations they may serve as an ultimate discharge point. If used the guidelines provided below should be followed including prospective applicants discussing their project with DEP during a pre-application meeting</p> <p>Important link:</p> <ul style="list-style-type: none"> • Permitting Related to Stormwater Discharges to Improved Sinkholes | VM | 3/18/2022 | Example Diagrams |

Revision History

| Date | Revision Reason |
|-------------|--|
| 2/11/2026 | Added Grizzly Mat – Inlet Filter Mat and changed RPCO to MPPD. |
| 5/12/2025 | Added additional sizes to the Composite Filter Fence. |
| 11/18/2024 | Revised Managed Release Concept (MRC) listing to include two new crediting spreadsheets and an updated MRC Concept Paper. |
| 10/29/2024 | Added Composite Filter Fence as an approved alternative E&S BMPs. |
| 4/19/2024 | Updated links to example BMPs and removed Extruded Sediment Fence because proprietor is no longer in business. |
| 8/22/2023 | Added the EZ-Flo Inlet Filter Mat and its variations to the list. |
| 5/17/2023 | Added portable plastic barrier containment system as an approved alternative E&S BMP. |
| 9/14/2022 | Updated example names and links for the following alternative E&S BMPs: Use of Switchgrass in Compost Socks, Sock Diversions, and Inlet Filter Mat. |
| 8/16/2022 | Revised the name/description for Alternative Rock Construction Entrance (approved alternative E&S BMP). |
| 3/18/2022 | Added Stormwater Drainage Well as an approved alternative PCSM SCM. |
| 10/26/2021 | Added Trenchless Curved Silt Fence as an approved alternative E&S BMP. |
| 9/16/2021 | Added corn stover as a partial filler material in filter sock and rice hulls as a primary filler in filter socks as approved alternative E&S BMPs. |
| 9/10/2021 | Added Kraken Filter as an approved alternative PCSM BMP. |
| 12/14/2020 | Added use of kiln-dried wood chips as an approved alternative E&S BMP and Ultra Urban Filter with Smart Sponge Technology as an approved alternative PCSM SCM. |
| 9/4/2020 | Added Up-Flo Filter CPZ Media as an approved alternative PCSM SCM. |
| 6/17/2020 | Clarified that removal efficiencies apply only to E&S and Chapter 102 permits. |
| 9/12/19 | Added Extruded Sediment Fence (approved alternative E&S BMP) |
| 5/15/2019 | Added and updated the following: A mixture of switchgrass and compost is acceptable for compost socks; SmartPAK – ABTech Industries (approved alternative PCSM BMP); End of Pipe Unit – ABTech Industries (approved alternative PCSM SCM); Compost Filter Sock J-Hook (approved alternative E&S BMP); and updated Managed Release Concept. |
| 12/13/2018 | Added the following: Alternative BMP Submission Form; Managed Release Concept (approved alternative PCSM SCM); Jellyfish Filter by Contech Engineered Solutions (approved alternative PCSM BMP); Heavy-duty Woven Geotextile Sediment Fence (approved alternative E&S BMP); 16-in. height for Multi-Layer Geotextile Filter Fence (approved alternative E&S BMP); and Chinking/toe sock (approved alternative E&S BMP). |
| 8/31/2018 | Addition of Constant Q float, Flat Gravel Pad details, and multi-layer geotextile filter fence. Revised description and example for Soil Binders with Polyacrylamides (previously called Soil binders with Anionic Polyacrylamides). Removed FocalPoint Biofiltration System and Inclined Plate Hydrodynamic Separator from the Approved Alternative PCSM SCM list because DEP determined these devices are covered by the PA Stormwater BMP Manual. |
| 3/29/2017 | Added FocalPoint Biofiltration System as an approved alternative PCSM BMP. |
| 3/21/2017 | Original |