Proposed PAG-01 NPDES General Permit

Water Resources Advisory Committee
July 25, 2019
Chapter 102 Listening Sessions in 2017 identified a “small project general NPDES permit” as the number one need for both the regulated community and county conservation districts.

Work on PAG-01 began in 2017 to address this need.
• Would apply to earth disturbances less than five acres, subject to additional qualifiers.

• Would be limited to 20,000 SF of impervious surface and 12% of impervious over project site.

• Goal is to simplify preparation and reviews of post-construction stormwater management (PCSM) plans for small projects.
Eligibility Requirements

The following summarizes the eligibility requirements for PAG-01 (not comprehensive):

• Discharges to HQ/EV waters are not eligible
• Discharges to combined sewer systems are not eligible
• Use of PCSM BMPs in areas of known sinkholes or closed depressions is prohibited
Eligibility Requirements (Cont.)

- Soils contaminated above residential Act 2 standards are not eligible
- Projects must be on the same or contiguous tax parcels except off-site support activities
- Non-stormwater discharges are prohibited except certain authorized discharges
- No runoff from off-site impervious areas may flow onto project site
• DEP engaged Villanova University to assist with developing technical criteria for PAG-01.

• Applicants would select one or more of three standards to treat stormwater runoff:
  – Site Restoration (approximate original condition);
  – Rooftop Standard (concentrated flow); and

• Rooftop and Roadway Standards have a suite of BMP alternatives that can be selected.
Objectives of PAG-01

• Limit areas of impervious surface.
• Sustainable green solutions (disconnection practices).
• Remove 1.5-inch storm ("first flush").
• Meet Δ 2 volume and peak rate from 10-, 25-, 50-, and 100-year/24-hour storm events.
BMP Alternatives

• Site Restoration Examples:
  – Projects that will restore the area of earth disturbance to approximate original condition or will otherwise involve no change or a decrease in the area of pre-construction impervious surfaces.
  – Environmental enhancement projects.
  – Demolition projects where vegetation will be established and no redevelopment is planned.
  – Slope stabilization projects not associated with a road maintenance activity.
BMP Alternatives

- Rooftop Standard:

<table>
<thead>
<tr>
<th>Flow</th>
<th>Dry well</th>
<th>Dispersion</th>
<th>1.5” Runoff Capture</th>
<th>Δ 2 volume</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Image1" alt="House" /> <img src="Image2" alt="Road" /></td>
<td><img src="Image3" alt="Dry well" /></td>
<td><img src="Image4" alt="Level Spreader" /></td>
<td><img src="Image5" alt="Vegetated Filter Strip" /></td>
<td><img src="Image6" alt="Berm" /></td>
</tr>
</tbody>
</table>

OR:

| ![House](Image7) | ![Level Spreader](Image8) | ![Vegetated Filter Strip](Image9) | ![Rain Garden](Image10) |

Pennsylvania Department of Environmental Protection
## BMP Alternatives

- **Roadway Standard:**

<table>
<thead>
<tr>
<th>Flow</th>
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</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="House" /></td>
<td><img src="image2" alt="Road" /></td>
<td><img src="image3" alt="Level spreader" /></td>
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<tbody>
<tr>
<td><img src="image6" alt="Gravel verge" /></td>
<td><img src="image7" alt="Vegetated Filter Strip" /></td>
<td><img src="image8" alt="Overland flow path" /></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[Image of BMP Alternatives](image9)

[Logo: Pennsylvania Department of Environmental Protection]
Next Steps

• Currently under review by the Agricultural Advisory Board

• Publication of draft general permit in Summer/Fall 2019
  – Coordination with EPA required

• Publication of final general permit in Winter or Spring 2020