Annual Inspections are conducted for BMPs under DelDOT’s maintenance obligation and the condition of the BMP is rated as A, B, C or D:

- **A**: No maintenance, or minor observations.
- **B**: Minor maintenance generally handled by Maintenance District staff.
- **C**: Major maintenance generally handled by a contractor.
- **D**: Failing BMP in need of a retrofit.

### Target and Measures

BMP maintenance is regulated by the DNREC Sediment & Stormwater Program and our MS4 Permits* issued by DNREC. While there is not a prescribed target to obtain, annual inspections are required and a maintenance program that keeps the BMPs in a state of good repair. Our current condition average for all our BMPs is an A, however current funding projections bring the condition average to a B over 15 years, as seen in **Performance Projections** on the next page.

### Inventory & Condition

**BMP Inventory**

- Biofiltration Swales: 13
- Wet Pond: 15
- Sand Filter: 45
- Dry Pond: 60
- Filter Strip: 18
- Infiltration Trench: 10
- Bioretention Area: 10
- Infiltration Basin: 8
- Sediment Forebay: 4
- Wet Swale: 13
- Miscellaneous: 244
- Constructed Wetlands: 627

**BMP Conditions**

- A: 1%
- B: 20%
- C: 47%
- D: 32%

### Age Distribution

- Pre-1992: 6
- 1998-2002: 161
- 2008-2012: 152
- 2013-2017: 151
- 2018-Present: 26
- Unknown: 9

**New BMPs**

- 6
- 61
- 161
- 94
- 152
- 151
- 26
- 9

**Past BMPs**

- New BMPs
- Past BMPs

### State of Good Repair

Annual Inspections are conducted for BMPs under DelDOT’s maintenance obligation and the condition of the BMP is rated as A, B, C or D:

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- **B**: Minor maintenance generally handled by Maintenance District staff.
- **C**: Major maintenance generally handled by a contractor.
- **D**: Failing BMP in need of a retrofit.

### Targets and Measures

BMP maintenance is regulated by the DNREC Sediment & Stormwater Program and our MS4 Permits* issued by DNREC. While there is not a prescribed target to obtain, annual inspections are required and a maintenance program that keeps the BMPs in a state of good repair. Our current condition average for all our BMPs is an A, however current funding projections bring the condition average to a B over 15 years, as seen in **Performance Projections** on the next page.

### Stormwater Best Management Practices (BMPs)

**Description:** DelDOT is responsible for over 600 stormwater best management practices (BMPs), also known as stormwater treatment facilities, that have been accepted into our maintenance responsibility, with another 200+ currently in design or construction. The BMPs provide water quality and/or quantity measures for our roadway improvement projects. The NPDES Program oversees the BMPs once a project is accepted by DelDOT Maintenance & Operations. Minor maintenance is provided by the Maintenance Districts and major maintenance is contracted by the NPDES Program. The NPDES Program also contracts out the annual inspections of the BMPs.

**Annual Budget:** Funding varies by year. Average current funding allows for the annual inspections, minor maintenance, and approximately 1.2% of the BMPs to have major maintenance performed annually. As the **Performance Projections** show in the next page, ideally funding would be increased to maintain the overall BMP condition as an A average.

**Asset Valuation:** Using major maintenance costs as the replacement costs, the value of the current BMP inventory is approximately $25.2M. Initial construction and right-of-way costs would enhance that value.

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* Phase I and Phase II Municipally Separate Storm Sewer (MS4) Permits
Risks affecting the state of maintenance on DelDOT’s stormwater BMPs include:

- **Natural impacts** due to flooding and intense rainfall; beavers and other nuisance wildlife; tornados and high wind damage; invasive species that clog or reduce BMP capacity.
- **Human impacts** due to vehicular accidents or tire rutting; excessive trash.
- **Political impacts** due to the public requesting more frequent or additional maintenance than required; drainage or flooding concerns to be addressed shifting maintenance priorities.
- **Aging infrastructure** impacts causing inlet or outlet pipes to fail; excessive sediment accumulation; soil or landscaping replacement.
- The most detrimental risk is the rising number of BMPs in our inventory without an increase in maintenance staff and budget.