

STATE HIGHWAY ADMINISTRATION TMDL PROGRAM

TMDL, which stands for Total Maximum Daily Load, is the maximum level of a pollutant that can be discharged to a body of water without causing it to exceed water quality standards. Under the federal Environmental Protection Agency's Clean Water Act, states are required to establish water quality standards.

The nearly \$600 million (\$598.8M) in the State Highway Administration's (SHA) six-year capital budget (FY 2015 – FY 2020) is a variety of projects to reduce nitrogen, phosphorus and sediment from entering the Chesapeake Bay, including: restoring 62,513 linear feet of streams; planting more than 679,000 trees on 2,717 acres; removing 76 acres of pavement; upgrading 13 stormwater outfalls; and constructing or upgrading 1,780 stormwater treatment facilities to improve the quality of water running off pavement.

By 2020, this historic investment - coupled with \$72 million previously funded in FY 2013 and FY 2014 - will allow SHA to make significant progress in reaching its 2025 TMDL reduction goals:

- Reducing Nitrogen by more than 113,000 pounds per year or 75 percent of SHA's 2025 goal;
- Reducing Phosphorus by more than 13,000 pounds per year or 75 percent of SHA's 2025 goal; and
- Reducing Sediment by 6.5 million pounds per year or 75 percent of SHA's 2025 goal.

SHA has identified numerous project sites (Phase I) and is in the process of identifying additional project sites (Phase II). Per Maryland Department of the Environment (MDE) guidelines, SHA's Watershed Improvement Plan is required to make water quality improvements in the following counties due to the extensive State roadway network (i.e. impervious surfaces): Anne Arundel, Baltimore, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Prince George's, Cecil and Washington.

Phase I – Identified Projects: SHA has identified **1,617** projects located in the 11 MDE-designated counties, including:

- New stormwater treatment facilities: **687** facilities
- Upgrade existing stormwater treatment facilities: **206** facilities
- Acres of trees planted: **435 acres - nearly 108,750 trees**
- Linear feet of streams restored: **60,000 linear feet**
- Acres of pavement removed: **25 acres**
- Stormwater outfalls upgraded: **8**

Phase II – Projects not yet identified:

- New stormwater treatment facilities: **521** facilities
- Upgrade existing stormwater treatment facilities: **366** facilities
- Acres of trees planted: **2,282 acres - 570,500 trees**
- Linear feet of streams restored: **2,513 linear feet**
- Acres of pavement removed: **51 acres**
- Stormwater outfalls upgraded: **5**

Previously funded restoration projects (\$72 million from FY 2013 and FY 2014):

- New stormwater treatment facilities: **405** facilities
- Upgrade existing stormwater treatment facilities: **0** facilities
- Acres of trees planted: **764 acres - 191,000 trees**
- Linear feet of streams restored: **20,301 linear feet**
- Acres of pavement removed: **1 acre**
- Stormwater outfalls upgraded: **0**

This \$600 million investment will support approximately 7,800 green jobs across the State, including: landscaping, stormwater specialists, construction, ecologists, landscape design and engineering.

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