

## CONOCOCHIEAGUE ENHANCED NUTRIENT REMOVAL

**STATE PROGRAM:** Maryland Department of Environment

**ASSISTANCE RECIPIENT:** Washington County

**ASSISTANCE AMOUNT:** \$1.4M



### PROJECT DESCRIPTION

The Conococheague WWTP reduced nutrient pollution in the Potomac River and Chesapeake Bay through an enhanced nutrient removal (ENR) upgrade. The project expanded treatment capacity from 4.1 to 4.5 MGD, reduced nitrogen discharges from 8.0 mg/L to 3.0 mg/L, and reduced phosphorus discharges from 2.0 mg/L to 0.3 mg/L. Nutrient loading was reduced by approximately 62,000 pounds for nitrogen, a 60% reduction, and about 21,000 pounds for phosphorus, an 84% reduction. The Maryland Water Quality Financing Administration (MWQFA) provided a loan for approximately \$1.4 million, along with \$462,415 in principal forgiveness, toward the total upgrade cost of \$32 million. As of March 2019, MWQFA has funded ENR implementation at all 67 of Maryland's major wastewater treatment plants that have flow greater than 500,000 GPD. These ENR changes have exceeded nutrient reduction goals established for the Chesapeake Bay through the Chesapeake Bay TMDL plan and the Chesapeake Bay Program Watershed Implementation Plan.

To read more about this case study, please visit [https://www.epa.gov/sites/default/files/2019-11/documents/pisces\\_2019\\_compendium.pdf](https://www.epa.gov/sites/default/files/2019-11/documents/pisces_2019_compendium.pdf).