

PROJECT DESCRIPTION

Grantee: City Of Covington

Grant: #440-S-13-01

The City of Covington Wastewater Treatment Plant discharges to the Jackson River and ultimately the Chesapeake Bay. The City has enrolled in the Virginia Nutrient Credit Exchange Program to purchase both phosphorus and nitrogen credits to meet Chesapeake Bay discharge limitations. However, a recently enacted lower Jackson River TMDL will limit the discharge of phosphorus to 1,917 pounds during the five-month growing period starting June 2013. To address both this requirement and also to satisfy Bay discharge standards for phosphorus, the City installed a coagulant addition system downstream of the existing trickling filters in order to reduce soluble phosphorus in the wastewater treatment plant effluent to 0.50 mg/L. The system includes a chemical metering and injection system, bulk storage with secondary containment along with the required power, and control system improvements. Nitrogen limitations associated with both the Bay discharge and the lower Jackson River TMDL will be satisfied by the direct purchase of nutrient credits from Mead Westvaco, an adjacent discharger in the affected reach of the lower Jackson River.