

Project Description - The Sandy Run watershed is located in Broad Top Township in northeastern Bedford County, Pennsylvania. The 2001 Watershed Implementation Plan for the combined Six Mile Run and Sandy/Longs Run watersheds listed 42 acid mine discharges (AMD) within the watershed. The SAO-D10 AMD discharge is located along the mainstem of Sandy Run which is included on the Pennsylvania Department of Environmental Protection's (PA DEP) 303(d) list for metals and pH impairment resulting from AMD. Discharge SAO-D10 annually contributes 1.5 tons of iron, 1.0 ton of aluminum, and 17.0 tons of acidity to the pollution load to Sandy Run.

Project Timeframe - April 01, 2016 through February 28, 2018

Project Goals - Construction of passive treatment system will be completed consisting of a flushable limestone bed followed by a settling pond. The finished system will remove 8.2 lbs/day of iron; 5.5 lbs/day of aluminum and 162.2 lbs/day of acidity.

Pictures



Project Results – Completed construction of a flushable limestone pond (275 ft X 75 ft) and settling pond (275 ft X 75 ft). Post-construction data, when compared with historic data, show an average 4.1 S.U. increase in pH, a 153.0 mg/l increase in alkalinity, a 375.5 mg/l decrease in acidity, an estimated 18.5 mg/l decrease in total iron, an estimated 13.0 mg/l decrease in total aluminum, and an estimated 0.9 mg/l decrease in total manganese. As indicated by the data, the system has exceeded the anticipated design goal of 90% reduction of iron, aluminum, and acidity.

Project Costs - \$400,000 EPA Section 319(h) plus an additional \$5,787 in matching funds from Broad Top Township.

Partners - Broad Top Township