



**Case Study Category:** CostWW

**Case Study Title:** Cost Case Study (Newport News, VA): Pine Avenue Sanitary Sewer Rehabilitation

**Utility Name:** Newport News, VA

**Case Study Abstract:** The replacement of one (1) 48” manhole and one (1) 60” manhole, 727 linear feet of 8” sanitary sewer, 432 linear feet of 10” sanitary sewer, 2,530 linear feet of 4” sanitary sewer laterals, placement of 519 feet of new 4” sanitary sewer laterals, cured-in-place pipe rehabilitation of 1,540 linear feet of 8” sanitary sewer pipe, rehabilitation of 69 vertical feet of existing manholes, associated point repairs, pavement replacement, select material, traffic control, soil and erosion control, cleanouts, concrete work, and bypass pumping.

**Case Study Link:** <http://waterid.org/content/cost-case-study-newport-news-va-pine-avenue-sanitary-sewer-rehabilitation>