

WEST BRANCH PUMP STATION

Submersible Pump Station Wet Well



<http://www.westbranch-ra.org/about-us/>

The West Branch Regional Authority (WBRA) in Montgomery, Pennsylvania required a new pump station to meet current and future sanitary sewer demands.

Infra Pipe supported the WBRA's project team by providing an 11' diameter x 30' deep Weholite RSC250 structural polyethylene quad submersible pump station wet well. The Weholite wet well was chosen for its long term design life, versatility, speed of installation, and reduced overall project cost. Infra Pipe provided wet well design, fabrication, and on-site support during installation.

Uponor's Weholite RSC250 wet well is manufactured from structurally reinforced profile wall polyethylene meeting ASTM F894. The completely prefabricated polyethylene wet well offers a

100-year design life and is immune to H₂S, pH, corrosion, and abrasion.

The Weholite wet well is extremely versatile and this system was custom designed to meet WBRA's requirements. Infra Pipe worked with the Excel Fluid Group to custom design and prefabricate the Weholite wet well to support a total of four submersible pumps, surface mounted valve assembly, and subsurface low pressure discharge.

Location: Montgomery, PA

Owner: West Branch Service Authority

Engineer: Larson Engineering Group

Consultant: Excel Fluid Group

Contractor: Clark Construction

System Details

106,000 Gallons of Rainwater Storage

150 LF of 11-foot Diameter Weholite Cistern

19-foot Deep Vertical Pump Station

Hydrodynamic Primary Pre-filtration

Integral Filtration Riser

100 Micron Post Filtration

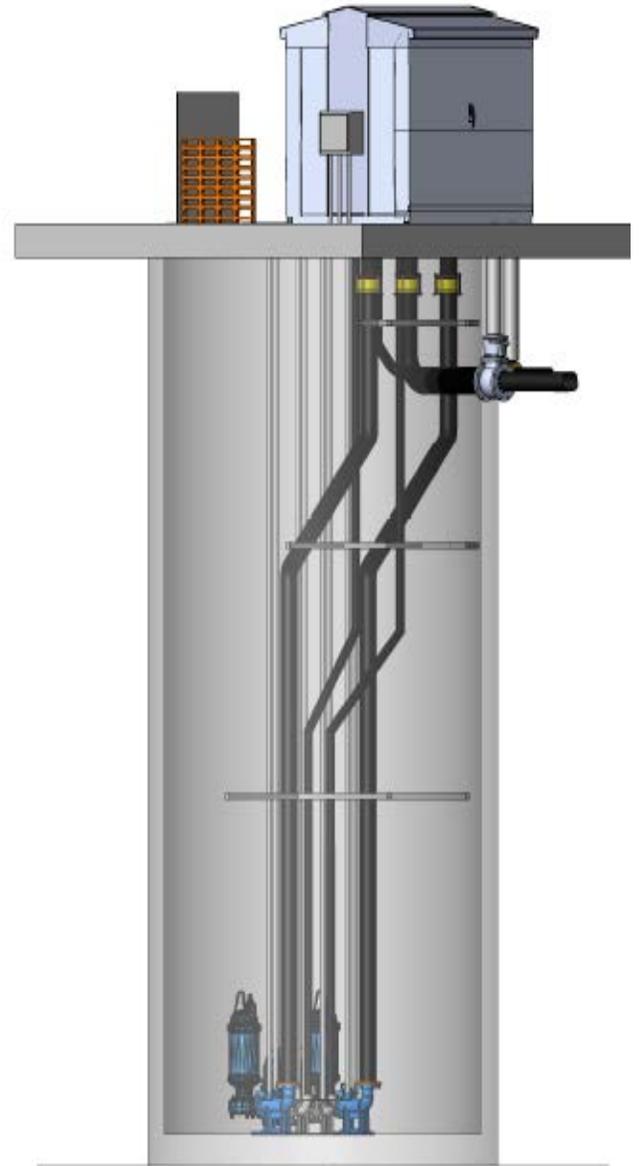
Variable Frequency Drive Pump

Human Machine Interface Control Panel

WEST BRANCH PUMP STATION SUBMERSIBLE PUMP STATION WET WELL

Uponor's Weholite wet well was delivered to the project ready to set, connect, and backfill.

The Weholite system's discharge piping, inlets, outlets, break away fittings, guiderails, and buoyancy countermeasure base were completely prefabricated under strict ISO 9001 quality control standards. All fabricated welds were pressure tested to be leak free prior to shipment.



The Weholite wet well was delivered to the project requiring no internal plumbing or cast-in-place base work. The wet well vessel was ready to be set, connected, and backfilled immediately upon delivery.

The rapid installation of the Weholite system decreased the overall project cost and improved project safety.