

West Branch Pump Station



Project Overview & Background

The Montgomery and Muncy boroughs of Lycoming County, Pennsylvania, have experienced significant population growth over the past few years. In the mid-2000s, the West Branch Regional Authority (WBRA) faced major concerns about an aging, failing sanitary sewer infrastructure that struggled to handle increased loads. The WBRA required a new pump station to improve the efficiency and sustainability of the sanitary sewer system and to meet future demands.

Initially, the WBRA selected a concrete Pump Station to upgrade their 23 miles of collection and interceptor sewers; however, after a thorough design and cost analysis, it was determined that a Weholite® Pump Station would yield significant cost reductions in capital, installation, and Life Cycle Costs (LCC). This is due to Weholite's projected service life of 100+ years, and its ability to resist corrosion, H₂S, and pH. Additionally, Weholite's lightweight nature delivers savings in project costs, as minimal machinery and labour were required for installation.

Infra Pipes' sales and engineering team worked closely with Excel Fluid Group, as well as the WBRA's project team, to provide a custom-designed prefabricated 11'/3355m diameter x 30'/9m deep Weholite RSC250 structural polyethylene quad Wet Well with 4 submersible pumps, surfacemounted valve assembly, electrical wiring, and a subsurface low-pressure discharge.

Since the Wet Well was prefabricated, no internal plumbing or cast-in-place base work was required. Instead, it was dropped in place, with only the inlet and outlet piping that needed to be connected. The Wet Well was chosen for its long-term design life, versatility, installation speed, and reduced overall project cost. Installation just took 2 days, after which the system was fully operational.

System, Partners & Timeline

Owner	Consultant	Engineer	Contractor
West Branch Regional Authority	Excel Fluid Group	Larson Engineering Group	Clark Construction

STORAGE SYSTEM REQUIREMENTS

- 30'/9m deep 132"/3355mm RSC250 Weholite® Wet Well
- Wehopanel Top - Pedestrian Rated
- Wehopanel Base & Buoyancy Counter
- HDPE Encapsulated Pump Base
- Quad Submersible Pumps
- Surface Mounted Valve Assembly

