

FREEZE PROTECTION AT WILLIAMSBURG WATER TREATMENT PLANT



The Hampton Roads Sanitation District (HRSD) was initially created in 1940 to serve approximately 288,000 residents. Today this modern and expansive system handles over 1.7 million residents and treats up to 249 million gallons of water per day. HRSD has 13 major treatment plants and covers a range of 1,160 square miles. Protecting the quality of the Chesapeake Bay and its tributaries was one of the major initiatives in starting HRSD and those efforts continue today. Waco's Newport News office has been located in the Tidewater area since the 1970's and supports the programs that keep the Chesapeake Bay clean and thriving for future generations.

Waco recently completed an insulation project at HRSD's Williamsburg Treatment facility Odor Station A. This station has several pipe sizes from 3" to 16" diameter located outside that needed to be electrically heat traced and insulated to prevent the water and vapors inside from freezing. Waco coordinated with the electrical contractor who was installing the heat tracing. We determined that the most appropriate insulation system would incorporate using a one (1) inch thick closed cell Armaflex foam rubber insulation and an outdoor rated PVC jacket for weather protection. The project started at the end of October and needed to be finished by the end of November, before freezing temperatures set in.

The project was completed ahead of schedule and the system is operating as designed. This was another in a long line of successful insulation projects that Waco has completed for HRSD over the years.

Thanks to Waco and the other contractors, the people of Williamsburg and the surrounding area are now benefitting from the new control system at Odor Station A.

Project Specifics:

- Contract Value: \$36,000
- Man hours: 489
- Superintendent: Alan Shupe
- Project Manager: Alex Howell
- Waco, Inc. Newport News, VA



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