

IPEX Industrial Case Study

Water & Wastewater Treatment Applications

Baltimore's Patapsco Wastewater Treatment Plant Needs Double Containment Pipe

The Patapsco Wastewater Treatment Plant has a current capacity of 63 million gallons of water per day, and a mandate to preserve the aquatic life of the Patapsco River and Chesapeake Bay. Increasingly stringent requirements for the purity of the wastewater that is returned to the Patapsco River require the safe



use of chemicals in the cleaning process. IPEX Guardian™ and CustomGuard® double containment systems were used to guarantee durability and the secure transport of potentially dangerous chemicals throughout the wastewater treatment plant.

The primary and secondary piping material selected for each chemical line in the double containment system varied depending on the caustic properties of the chemicals. To aid in the detection of leaks, the engineers opted for IPEX Clear-Guard™, PVC secondary containment pipe, where applicable, which allowed visual monitoring of the pipes. They also required the installation of the IPEX Centra-Guard™ Electronic Low Point Leak Detection System. This system allows for the installation of sensors at strategic low points that detect leaks and are connected to a reliable and maintenance-free leak detection monitoring station.

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Paul Sherer,
Fru-Con Construction

Steven Dolejsi, IPEX Regional Sales Manager adds, “IPEX was the only manufacturer that could provide material for all the different chemical conveyance lines, along with the specified leak detection. We were also consulted on venting and expansion/contraction compensation. We visited the site several times during start up to ensure that the product was being installed properly and answered any questions and concerns.”

Paul Sherer with Fru-Con Construction adds. “We’re still working on the project and pressure testing. The double containment system provides great safety when chemicals are transported over the heads of workers. A good product.”

To meet the challenges of complex systems, IPEX double containment includes a variety of different system choices ranging from Fluoropolymers, Thermosets and carbon and stainless steel to hybrid combinations. Spooled pieces are preassembled to minimize installation time and field joints.

For most common chemical-waste or process applications, IPEX offers double containment systems that are highly engineered solutions.



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