

Waterdown Wastewater Treatment Plant

Waterdown, Ontario

Secondary Containment Lining

Problem

Hamilton's water & wastewater treatment plants are owned by the City of Hamilton and operated by American Water Services, Canada Corporation, through a public/private partnership. AWS had a problem with a five thousand gallon tank at the Waterdown Wastewater Treatment Plant. The tank, used to store Hydrochloric acid, had developed a leak and was causing significant damage to the concrete pad and secondary containment dike surrounding it. It was apparent that something needed to be done to avoid a potential environmental problem.



Old tank and deteriorated concrete pad

Solution

Management at American Water Services decided to award the contract to Inscan based on their proven experience in the water & wastewater field and their ability to offer a "turn-key" solution.

Inscan was required to:

- Remove the existing tank.
- Sandblast, restore, and apply a corrosion-resistant fiberglass reinforced vinyl ester lining system to the concrete containment area surrounding the tank.
- Supply and install a new FRP tank and new PVC piping with some design modifications.



Placing the new tank



New tank and lining system

The project was completed safely, on budget, and on time.

The new tank and containment area lining are engineered to withstand immersion service in a 20% Hydrochloric acid solution. American Water Services can now take comfort in the fact that they are fully protected from corrosion in this area for many years to come.

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