

## Georgetown Wastewater Treatment Plant

Georgetown, Ontario

### Primary Containment

In the spring of 2004, the Regional Municipality of Halton issued a tender to perform restoration work at the Georgetown Wastewater Treatment Plant. The scope of work included repairs to spalled concrete, polyurethane injection of cracks, and the application of a protective lining system to the primary and secondary clarifiers, and aeration tanks. MacViro Consultants Inc., an engineering firm specializing in water and wastewater treatment facilities, was retained to determine the nature and extent of damage, create the scope of work, and select the right contractor to complete the installation.

The contract was awarded to Inscan Specialty Contracting Services Division based on their competitive pricing, exemplary safety record, and past history of high-quality work for both MacViro Consultants and the Regional Municipality of Halton.



*Spray-application of topcoat*

After the tanks were drained and scaffolding erected, the first step was to repair the areas of damaged concrete. Spalled concrete was repaired by sandblasting and applying a polymer-modified repair concrete. Cracks in the concrete were treated using polyurethane injection, a process by which a hydrophobic urethane resin is injected under pressure into the crack at specified intervals to create a flexible, permanent water-stop.

After the restoration work was completed, the protective lining could be applied. The specified product was a fiberglass-reinforced epoxy lining system consisted of a primer coat, troweled base coat, fiberglass mat reinforcing layer, and epoxy topcoats.



*Completed aeration tanks*

Inscan, being a full-service corrosion-control contractor, was able to complete the restoration, crack injection, and apply the glass-reinforced lining system all with its own qualified forces. A crew of up to eight men worked in two shifts to complete the project on time, despite numerous weather delays.

Few contractors in the corrosion-control industry can match the expertise of Inscan's Specialty Contracting Services Division, with over 50 years of combined experience in the field.

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The CORROSION-CONTROL EXPERTS