

Rockland Water Treatment Plant

Clarence-Rockland, Ontario

Secondary Containment

The City of Clarence-Rockland recently completed a project to upgrade and expand the Rockland Water Treatment Plant through an investment under the Canada-Ontario Infrastructure Program. The project included the expansion of the plant, the construction of a new chlorine contact reservoir, the addition of two new clarifiers and filtration units, and the construction of a second underground concrete tank. The purpose was to establish a new regional water supply system to provide clean drinking water to five hamlets, north of Ottawa, formerly serviced by individual groundwater systems.

Part of the project included three new storage tanks to contain Sodium Hypochlorite, Sodium Hydroxide, and Aluminum Sulphate, and a three-chamber concrete secondary containment structure surrounding the tanks. The chambers of the containment structure also required a chemical-resistant lining to protect the concrete from corrosion in the event of leaks or spills.



Completed containment lining in one chamber

The general contractor in charge of the project, Maple-Reinders Constructors Ltd., awarded the application of the lining system to Inscan Specialty Contracting Services Division based on their experience in the field, competitive pricing, and ability to meet the tight delivery schedule.

Prior to applying the lining, Inscan sandblasted the concrete to achieve a good surface profile for optimum bond strength. The area was hoarded to prevent sand overspray and to allow other contractors to continue to work in the surrounding area. A vinyl ester resin based lining system was specified, consisting of a primer, a silica-filled trowel-applied mortar, a layer of fiberglass mat saturated with resin, and a flake-filled vinyl ester topcoat. Inscan was very familiar with this system, having installed it in many similar applications. The lining was applied to the floors and walls of the concrete containment structure, an area totaling 1750 sq.ft.

In order to provide the performance required in the event of a spill, fiberglass reinforced lining systems must be installed to exacting standards by an experienced crew. 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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