



**Project:**  
**SEDIMENTATION TANK LININGS**  
**Gold Bar WWTP**  
**Edmonton, Alberta**

**Owner:**  
**City of Edmonton**

**Consultant:**  
**Reid Crowther Consulting**  
**Engineers**

**General Contractor:**  
**PCL - Maxam A Joint Venture**

**Installer:**  
**Desco Coatings of Alberta Ltd.**  
**Edmonton, Alberta**

**System:**  
**EnviroLastic® AR 425**

**Area:**  
**7,200 Sq. Ft.**

**Completed:**  
**November, 1995**



An odor control roof structure had been installed over the tanks the previous year. This roof structure increased the levels of Hydrogen Sulfide which accelerated the deterioration of the concrete in the tanks above the water level.

The consultants had decided to protect the concrete and specified traditional epoxy coatings. There was, however, a concern as to the required cure times for these systems because the tanks could be put back into service within minutes of a sudden summer rain storm. If the project was extended into the fall months the cure time of the epoxy systems would be extended because of the cooler evening temperatures.

After looking at the EnviroLastic System's benefits of a fast cure time, elastomeric properties, chemical resistance to sulfuric acid and shortened installation time, the consultants felt the extra expense of the EnviroLastic coating was justified.

The areas to be coated were sandblasted and then patched using a fast curing moisture tolerant epoxy mortar. The EnviroLastic AR 425 was spray applied at a nominal 50 mils thickness to the tanks above the water line and extending approximately 200 mm below the water line.

Even though the project was not completed until well into November with temperatures around 0°C, the heating and hoarding costs were kept to a minimum because of the broad application temperatures of the EnviroLastic.