

# PROBLEM *Solution*

**Project:**  
U.S. Steel API  
Separator Launder Troughs

**Owner:**  
U.S. STEEL,  
GARY WORKS

**Installer:**  
Martin Products of Illinois,  
Inc.

**System:**  
EnviroLastic® AR 200HD

**Area:**  
2,259 Sq. Ft.

**Completed:**  
July, 1998



United States Steel, Gary Works, has survived as one of the few large integrated steel mills left in the world. On the west end of the nine mile long steel mill are finishing plants like the 84" Hot Strip, the Tin Mill, and the Electrogalvanize Line. These plants are served by the Terminal Water Treatment Plant.

The reconstruction project for four of the six long concrete aeration tanks was out for bid. They were to be taken out of service one at a time and reconstructed. The end compartment of each tank is an API separator with steel launder troughs. The steel had experienced a great deal of corrosion over the years and the original specification called for replacing them with precast FRP.

A general contractor bidding on the reconstruction project had prior experience with Martin Products, the licensed applicator for EnviroLastic. The cost of installing the precast FRP was compared to the cost of preparing and coating the steel with EnviroLastic. The resulting cost savings helped the general contractor win the bid.

The general contractor did his job on the mechanical components and had the launder troughs sand blasted. Martin Products sprayed EnviroLastic to a thickness of 50 mils. The weir plates were installed last and the units put back on line.