

Industrial

Date Completed:

2004

Construction Cost:

\$1 Million

Client or Owner's Rep:

*Ms. Penny Null, Procurement
Mr. Jack Forsyth
Project Manager*

Highlights:

- ✓ **Feasibility, FEED and Detailed Engineering**
- ✓ **Technology Evaluation**
- ✓ **Cost/Benefit and Risk Analysis**
- ✓ **Water Rate Negotiations with City of Pasadena**
- ✓ **Reduced Total Installed Cost (TIC)**

Photos: *Basell Bayport Plant*

Refinery – Hazardous Waste Slurry Treatment for Amuay & Cardon Refineries PDVSA, Venezuela | Pasadena, Texas

Project Description | Basell Polyolefins Bayport Plant purchased and treated industrial grade surface water from Air Liquide to meet Texas Commission on Environmental Quality (TCEQ) Drinking Water Standards. The treated water is primarily used for safety showers, eye washes and rest rooms. The plant purchased bottled water for consumption and food preparation. The purpose of this project was to design a new water treatment plant to meet all the plant's potable water requirements

Services Provided | KGI performed a feasibility study and recommended Basell to purchase drinking from City of Pasadena in lieu of upgrading the water treatment plant to meet the TCEQ requirements. This recommendation reduced the project capital cost \$3.0 million to less than a \$1.0 million.

KGI was responsible for the front end engineering, detailed design and assistance during construction and start-up. The project included metering, backflow prevention, 10,000 FRP potable water storage tank, pumps and piping.

