



Transportation

Ports & Maritime

Client

Port of Long Beach

Location

Port of Long Beach, California, USA

Pier T Container Terminal Construction Management

Project Description

CH2M HILL provided construction management for Phases I and startup of Phase II of the Pier T Container Terminal Complex, Port of Long Beach's 7-year, best-of-class facility, which is the largest dollar value project in the Port's history.

CH2M HILL's project responsibilities included:

- Project and schedule controls
- Construction inspection and reporting
- Agency and outside utility coordination
- Bidability and constructibility review
- Stakeholder relations, and permitting
- Demolition of several hundred buildings
- Wharf construction
- Dredging and placement of more than 5.1 million cubic yards of rock dike, dredge material, and surcharge material
- Site preparation
- Site entry and backlands construction
- Installation of all new facility utilities including storm drain, water, sewer, electrical distribution, high mast lighting, switch gear, and electrical transformers
- 16 miles of rail
- 100,000 square feet (SF) of buildings
- Construction of a 5,000-foot-long marginal wharf
- 280 acres of paving
- Environmental mitigation

The project converted an abandoned naval station and shipyard into a world-class container terminal complex at the Port of Long Beach Pier T.

Construction management activities covered a wide range of project tasks, including demolition of the Navy base's 367 buildings and structures, asbestos abatement, and dredging 6 million cubic yards of sediments and soil from the ocean floor to deepen the area. CH2M HILL also managed construction of a wharf, landfill, backland, and 18 new site buildings and facilities. Completing these tasks required coordinating the activities of

Industry Awards Won

American Association of Port Authorities:

2004 Facilities Engineering Excellence Award

Construction Management Association of America—Southern California Chapter:

2005 Project Achievement Award in the Public Sector—More than \$100 Million category

Consulting Engineers and Land Surveyors of California: awarded KPFF Consulting Engineers, the designer, the Golden State Award—the state's top Engineering Excellence honor

Southern California Ready Mixed Concrete Association:

2002 Cornerstone Excellence Award

21 prime contractors and hundreds of subcontractors through strict schedule management.

Demolition activities and preparing the site for construction required addressing the handling and disposal of large amounts of hazardous and contaminated materials—the amount and type of which were unknown prior to the start of demolition. In addition, a protocol had to be put in place for the safe handling and disposal of unexploded Navy ordnance that was encountered during demolition and dredging.

The mass dredging was conducted in environmentally sensitive areas, requiring adherence to state and federal policies. Mature ficus and olive trees were relocated because of the nesting habitat of the endangered black-crowned night heron, and a 25 acre shallow water habitat to be used for foraging by the endangered Least tern was created.

From the beginning, a key emphasis was flexibility and responsiveness in meeting the Port's aggressive schedule for accommodating new tenants. CH2M HILL obtained multiple certificates of temporary and final occupancy from various permitting agencies and readied container facilities for occupancy in August 2002, promptly generating lease revenue for the Port. Construction was completed in November 2004.