



## Port of Manta Development Plan & Engineering Design

CH2M HILL prepared a development plan for the Port of Manta, Ecuador, to transform the port from a local, non-specialized port facility, to a regional hub for domestic Ecuadorian and South American transshipment cargos. The plan involved development of new commercial fishing facilities, expansion of the existing breakwater, dredging and land reclamation, and design and construction of a modern container terminal.

CH2M HILL provided the following services:

- ◆ Comprehensive offshore soil investigation, utilizing barge mounted drilling and sampling equipment
- ◆ Multi-cargo segment market study and volume forecasting
- ◆ Port-wide master development plan, providing for phased development of each of the port's key business lines
- ◆ Detailed design of breakwaters and revetment works
- ◆ Detailed design of dredging and reclamation program
- ◆ Detailed design of container wharf structure, designed to accommodate Post Panamax class vessels
- ◆ Detailed design of container yard pavement
- ◆ Detailed design container terminal facilities, including: an administration building, an operations building, a maintenance workshop, a container freight station, sheds, and gate houses
- ◆ Detailed design of new infrastructure for the necessary utilities, services and telecommunications.
- ◆ Detailed design electrical services including provision of substations.

### Transportation

#### Client:

Terminales Internacional de Ecuador

#### Location:

Manta, Ecuador

### About CH2M HILL

Headquartered near Denver, Colorado, USA, employee-owned CH2M HILL is a global leader in consulting, design, design-build, operations, and program management for government, civil, industrial and energy clients. The firm's work is concentrated in the areas of water, transportation, environmental, energy, facilities and resources. With US\$6.3 billion in revenue and 23,000 employees, CH2M HILL is an industry-leading program management, construction management and design firm, as ranked by Engineering News-Record and named a leader in sustainable engineering by Verdantix. The firm has been named a FORTUNE 100 Best Companies to Work for five times. Visit us at [www.ch2mhill.com](http://www.ch2mhill.com), [twitter.com/ch2mhill](https://twitter.com/ch2mhill) and [facebook.com/ch2mhill](https://facebook.com/ch2mhill).