



S. T. HUDSON ENGINEERS, INC.
Professional Engineers and Consultants



Marine Engineering

S. T. Hudson Engineers, Inc. is known for developing innovative and cost-effective designs for the new construction and rehabilitation of all types of port and marine terminal facilities; including piers, wharves, loading platforms, mooring structures and bulkheads. We have extensive experience working on timber, concrete and steel structures, as well as new composite-materials construction systems. We are also experienced with cathodic protection systems, and in some instances, preservation of historic structures.

The design of marine and waterfront structures requires specialized expertise and differs from conventional land-based structural engineering. Marine waterfront structures must function in a more hostile environment, which can include wave and current action, ice loading and uplift, galvanic corrosion, excessive mooring loads and attack by marine organisms.

For over 40 years, Hudson has been the go-to firm for marine engineering services, specializing in the design, rehabilitation, and repair of marine structures. With each project, we earn the trust of our clients. Our marine engineering consulting services employs sound engineering principles based on extensive experience to answer the unique challenges of designing/repairing marine structures.

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Environmental

S. T. Hudson Engineers, Inc. has broad expertise in many aspects of environmental engineering and regulatory compliance work. Our Regulatory and Environmental Expertise includes:

- Preparation of Federal and State Permits for dredging, development of waterfront facilities, marinas and parks
- Sediment Sampling and Material Characterization
- Freshwater Wetlands and Submerged Aquatic Vegetation Delineation
- Mitigation—Site Planning and Design: Habitat Development
- Site assessments—Phase I & II
- Storm water Management, Erosion and Sediment Control Plan

Operating under current strict environmental laws, we have gained a thorough working knowledge with all aspects of environmental engineering, planning and regulatory compliance. We have earned the respect of both State and Federal regulatory agencies, especially for the meticulous nature of our permit applications, and for our expertise in follow-up negotiations.



We bring to your project over 40 years of marine and deep foundation



engineering experience

Investigations and Surveys

S.T. Hudson Engineers, Inc. has extensive field investigation experience. We have the means and methods to conduct a multitude of site investigation services utilizing state-of-the-art electronic systems to map underwater conditions. Our survey teams allow us to be flexible in scheduling and respond quickly to an emergency call. Our in-house teams translate to higher quality and reliability in our work due to the constant communication between engineers, divers and surveyors.

Our electronic surveillance capabilities include the use of hydrographic survey equipment, side scan and scanning sonar imaging. These systems can be used for a variety of purposes including berth and channel examination surveys, locating underwater obstructions, quantifying volumes of debris at intake structures as well as dredge material volume calculations. Our certified, in-house, commercial hard-hat divers perform underwater inspections of all types of marine structures. Our inspection services include ultrasonic thickness measurements of steel members, underwater photography and video, and marine borer assessment.



Dredging

S. T. Hudson Engineers, Inc. provides dredge engineering, consultation and construction management services for a wide array of dredging projects. Our staff has significant dredging experience and has amassed an impressive track record of designing and managing projects from conceptual design through to execution and completion.

We have experience and knowledge working on:

- Maintenance and New Dredge Projects
- Contaminated Sediment Assessment and Management
- Innovative Beneficial Use of Dredge Material Disposal Options
- Project Design with Dredging Equipment and Regulatory Process Integration
- Dredging Plans, Specifications, Bid Documents and Cost Estimates

Pioneers in state-of-the-art marine structures and total harbor facilities.



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