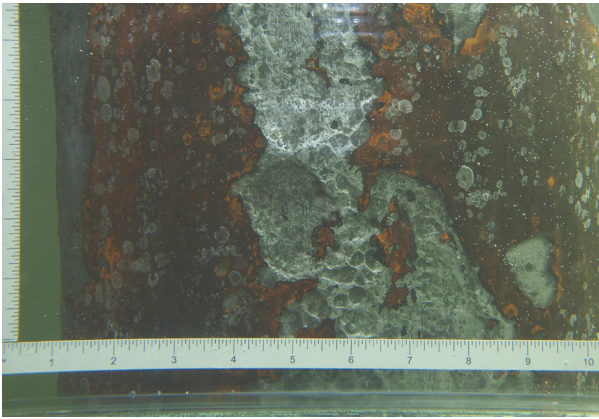


OCEAN AND COASTAL



CONSULTANTS

a COWI company



Complete Underwater Services



Ocean and Coastal Consultants, Inc. (OCC's) underwater inspection services support rehabilitation and new structure design, and resident engineer services for marine projects. OCC's engineer divers understand marine structures and assess service life, prepare concept designs, design protocol, mooring and wave analyses, and final designs with plans and specifications. Resident engineering services include assessing a contractor's progress and conformance with contract specifications. In addition, OCC's experience with permitting services provides a complete package for the owner or developer of marine facilities. We have averaged 110 dive days per year for the past six years along the east coast, California, Aruba and Hawaii.

OCC has a staff of Structural, Civil, and Coastal Engineers who perform underwater services on all forms of waterfront structures

Services

- Underwater Investigation of Waterfront Structures
- Structural Evaluation of Deterioration Due to Corrosion, Chemical Attack, and Marine Borers
- Calculation of Load Capacity and Remaining Service Life
- Rehabilitation Design of Steel, Concrete and Timber Structures
- Waterfront Construction Quality Control
- Cathodic Protection

Above and Underwater Equipment Includes:

- Five (5) Complete Surface-Supplied Air Diving Stations with Basic Inspection Tools
- Two (2) Cygnus 1 Multiple Echo Ultrasonic Underwater Thickness Gauges
- Protovale Covermaster CM-9 Rebar Locator
- Cathodic Protection Testing Equipment (Multimeter and Reference Electrodes for Salt, Brackish and Fresh Water)
- Digital Cameras with Underwater Housing including Custom Designed "Clearwater" Box for Photography in Low Visibility and Turbid Water
- Three (3) Underwater Helmet-Mounted Color Video Systems with Digital Video Recording
- VideoRay Pro III Remotely Operated Vehicle (ROV) with GPS positioning
- 20, 25, and 32 ft Diving/Survey Boats



UNDERWATER CHALLENGES

OCC's underwater inspection services are an important component of the firms overall waterfront work. We have averaged 110 dive days per year for the past six years. Our engineer and professional engineer divers must have training compliant with 29 CFR 1910.41, prior to performing dive work. OCC requires all divers to be current with annual dive physicals, oxygen administration, first aid, blood borne pathogens, CPR, and AED certification. OCC also conducts in house dive seminars and holds a safety meeting every month to review procedures and in-house safety requirements.

***Safety is a PRIORITY for Ocean and Coastal Consultants.
If a job can't be done safely, it won't be done at all.***

OCC's engineer and professional engineer-divers are leaders in the field of waterfront structure investigation, design, and rehabilitation. With years of collective engineering expertise and active participation in conferences, committees, and in-house seminars, our inspection staff is skilled in the identification of damage and deterioration, evaluation of the cause and significance of findings, and development of constructible durable repairs. Our engineer-divers that lead the inspection are directly responsible for the preparation of load calculations, service-life analyses, construction cost estimates, inspection reports, short and long-term maintenance plans and contract bid document. All inspections are carried out entirely by our in-house staff of commercially trained divers using surface-supplied diving equipment supplemented by an extensive array of non-destructive testing and material sampling tools.

www.ocean-coastal.com

OFFICE LOCATIONS

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