



PROFESSIONAL CAPABILITIES

Collins is a pioneer in the field of underwater engineering and, in particular, the use of Professional Engineer-divers for inspections. Collins has been performing underwater facility evaluations since 1979, many of which have included design of repairs or replacements. As experts in the field, Collins' engineer-divers are in a unique position to immediately assess the condition of underwater structures.

PROFESSIONAL ENGINEER-DIVER EVALUATIONS

- Diving Operations to 220 fsw
- Surface-Supplied Air and Commercial Scuba Diving
- Difficult Access and Swift Current Operations
- Penetration of Tunnels, Pipelines, Culverts, and Tanks
- Two-Way Hard Wire Communications
- Anomalous Condition Identification and Evaluation

PROFESSIONAL ENGINEERING SERVICES

- Condition Assessments
- Preventative Maintenance Recommendations
- Maintenance and Repair Recommendations and Cost Estimates
- Structural Design and Rehabilitation Design
- Construction Inspection and Quality Control
- Constructability Reviews
- Expert Testimony, Research, and Testing
- Training Manuals and Seminars

REMOTELY OPERATED VEHICLE INSPECTION

- Inspection in Confined Spaces and Deep Water
- Remote Testing, Sampling, and Video Documentation

NONDESTRUCTIVE & PARTIALLY DESTRUCTIVE TESTING & SAMPLING

- Ultrasonic Thickness Measurement of Steel
- Magnetic Particle and Radiographic Testing of Steel
- Schmidt Hammer and Windsor Probe Concrete Testing
- Coring and Boring of Concrete and Timber Members
- Teredo and Limnoria Infestation Evaluation
- Geotechnical, Sedimentary, Biological, and Chemical Sampling and Analysis

UNDERWATER DOCUMENTATION

- Still Photography
- Video with Narrative Audio
- Photomosaic Development, Assimilation, and Interpretation
- Clearwater Photography for Limited Visibility Conditions

COLLINS ENGINEERS INC