

BRIDGE INSPECTIONS





McLaren Engineering Group – Headquarters
530 Chestnut Ridge Road, Woodcliff Lake, NJ 07677
Ph: 1-800-420-6401



About Us

McLaren Engineering Group is a leading full-service engineering firm renowned for its trusted, high quality, and innovative approach to solving complex challenges. With industry experts in multiple technical disciplines, our team has provided customized solutions for over 20,000 projects through consultation, design, inspection, and construction management. With over four decades of experience, a staff of 200+, and 11 offices worldwide, McLaren addresses every project's specific needs with technical excellence and creative innovation.



JEREMY BILLIG, PE
CEO + President

JBillig@mgmclaren.com

Core Technical Divisions

STRUCTURAL | CIVIL + SITE | MARINE + COASTAL | BRIDGE, HIGHWAY + RAIL
ENTERTAINMENT | GEOTECHNICAL | FACADE + BUILDING ENVELOPE
CONSTRUCTION ENGINEERING | FORENSICS | SURVEY + MAPPING



ABOVE + UNDERWATER INVESTIGATIONS

With the most advanced and reliable services available in-house, McLaren's Bridge Inspection team is a well-known industry leader in New York, the Northeast, and across the nation.

Consisting of expert engineers, divers, surveyors, designers, and scientists, our firm is able to provide some of the best services in complex inspection, rehabilitation, and repair.

In addition to underwater PE divers and Rope Access Inspectors, we have the capabilities to mobilize quickly and investigate from land, water, and air using various survey and mapping methods. With the latest technology, McLaren produces accurate and compelling deliverables for projects of any size, shape, scope, or complexity.

From offices nationwide, we provide clients with innovative engineering services from concept to completion and full lifecycle management.

PE DIVER INSPECTIONS

HYDROGRAPHIC SURVEYS

FATHOMETRIC/BATHYMETRIC

GEOPHYSICAL SURVEYS

DRONE SURVEYS

ROPE ACCESS INSPECTIONS

BOAT ACCESS SURVEYS

UNMANNED REMOTE
CONTROL SURFACE
VEHICLE INSPECTIONS (sUSV)

REALITY CAPTURE 3D LIDAR
SCANNING

FULL DESIGN SERVICES

www.mgmclaren.com

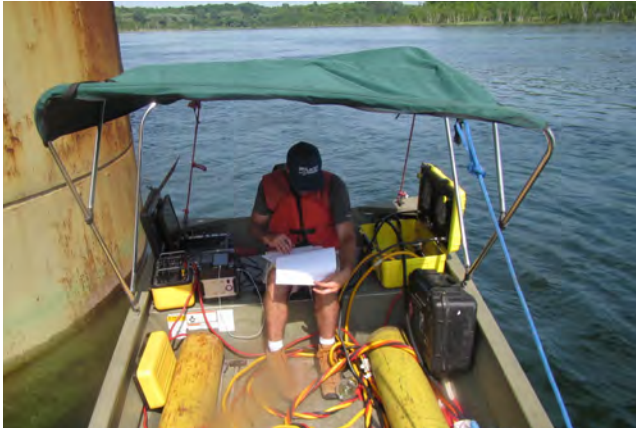
DIVE INSPECTIONS
TRANSPORTATION SYSTEM IMPACT
STUDIES
SAFETY INSPECTION
LOAD RATING ANALYSIS
REHABILITATION DESIGN +
REMEDiation
CONDITION ASSESSMENT
FEASIBILITY STUDIES
STRUCTURAL EVALUATION
MAINTENANCE MANAGEMENT
SYSTEM
FORENSIC EVALUATION
SERVICE LIFE EVALUATION

BRIDGE INSPECTION, MAINTENANCE + REHABILITATION

McLaren's bridge inspection team is available to assess conditions, file state and federal inspection reports, and most importantly, use our system of computerized management tools to compile assembled inspection data and focus on the prioritization of deficient elements.

Our bridge inspection staff are **NHI**, **NBIS**, **NICET**, **NACE**, and **SPRAT** certified and employ access techniques ranging from hard-hat diving to abseiling – meaning no aspect of a bridge inspection will go unreached. In short, our engineers are trained, experienced, and prepared to provide services through all aspects of any project.

APPLIED INGENUITY



BARNHART BRIDGE INSPECTION



NIAGARA FALLS BRIDGE INSPECTION



NYS DOT BRIDGE INSPECTION



MOTEMS DIVE INSPECTION



CONDOT DIVE BRIDGE INSPECTION



CAPITAL CRESCENT TRAIL BRIDGE INSPECTION



WESTCHESTER BUNDLED BRIDGE INSPECTIONS



SHALLOW WATER Z-BOAT
MULTIBEAM SURVEY



HYDROGRAPHIC
BRIDGE SURVEY



GEOPHYSICAL
MULTIBEAM SURVEY

HYDROGRAPHIC + GEOPHYSICAL

McLaren's in-house hydrographic survey and mapping team is an integral part of accurate bridge inspections. Equipped with state-of-the-art survey equipment, vessels, and technology, we perform a variety of specialized hydrographic, fathometric, and bathymetric geophysical surveys.

Our team is able to provide advanced analysis for bridge conditions, flood inundation, scour and stabilization, water-quality studies, habitat mapping, environmental spills, and everything in between.

Survey Services

Multibeam Bathymetry

Singlebeam Bathymetry

Fathometric Survey

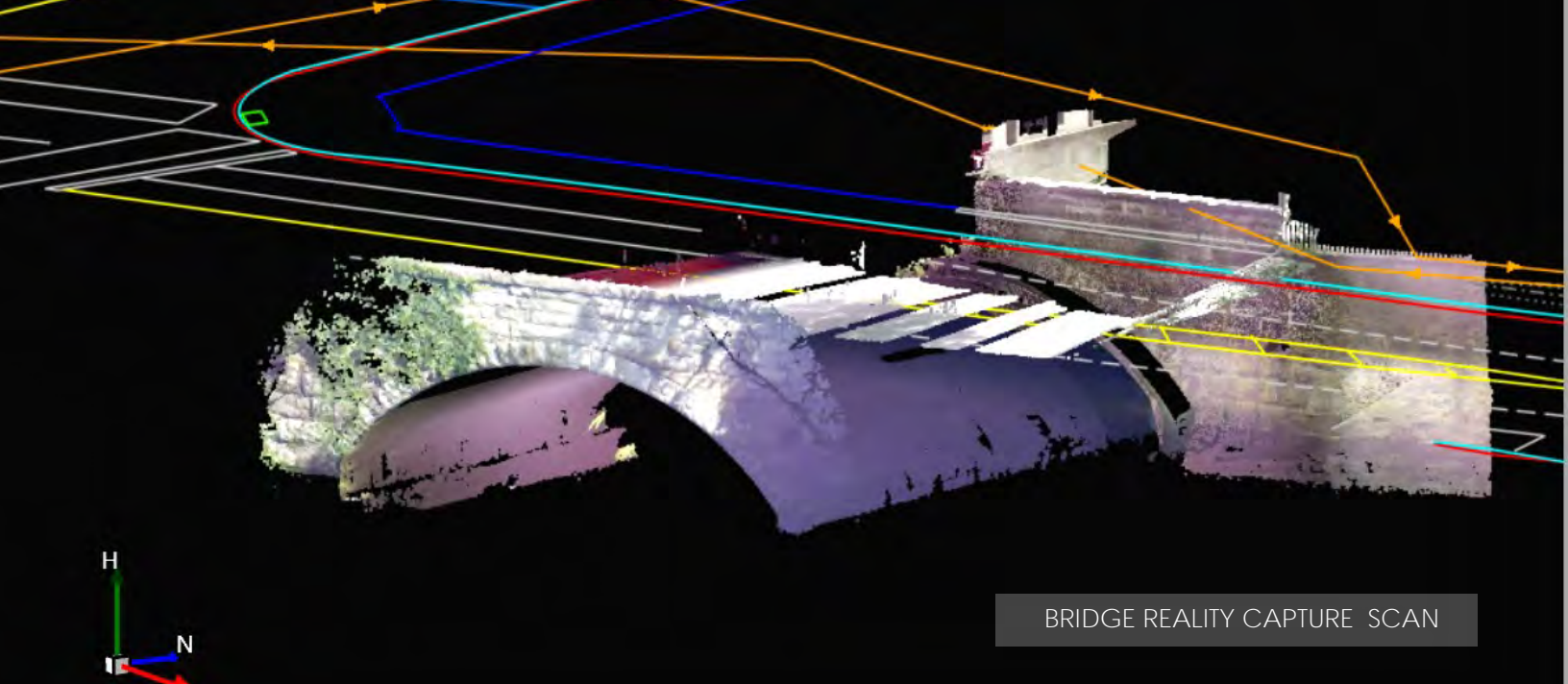
Geophysical Surveys - Side Scan Sonar,
Magnetometer + Sub-bottom

Small Unmanned Surface Vessels (sUSV)

Drones + Unmanned Aerial Systems (sUAS)

Mobile & Stationary 3D LiDAR / Laser Scanning

Geohazard Surveys



STATE OF THE ART DELIVERABLES

McLaren provides deliverables to give our clients the full picture, above the water and below. Providing detailed analysis of subsea conditions and 3-D modeling of geological obstructions, man-made debris, environmentally and politically sensitive areas, our bridge inspection services provide the most advanced and accurate information.

Taking all variables into consideration, our trusted approach offers complete confidence with comprehensive surveys options for any bridge inspection.

Deliverables

Feasibility Studies

Condition Analysis Reports

Load Ratings

Compiled Sonar Imaging

Reality Capture Scans

Simulations

3D Computer Modeling

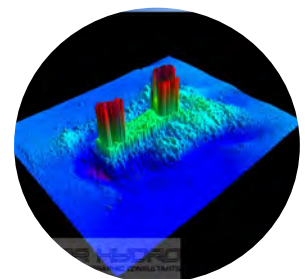
Designs + Drawings



FATHOMETRIC SURVEY
SIMULATION



COMPILED SONAR
IMAGING



BRIDGE 3D IMAGING



UNDERWATER INVESTIGATION



INSPECTION ANALYSIS



DIVING 365 DAYS
A YEAR



EMERGENCY
RESPONSE

PE DIVER INSPECTION

Underwater inspections by a team of expert PE Divers can provide unparalleled analysis for any bridge inspection.

From visual condition assessments to non-destructive testing analysis, McLaren possess the specialized ability to properly identify items of importance for underwater bridge inspections, providing a below-sea look to best make recommendations and provide design services for lifecycle management, rehabilitations, and repairs.

Diving Services

Full Fleet of Vessels

Emergency Response Team

Professional Engineer Divers

Non-Destructive Testing

Hammer Testing

Visual Condition Surveys

Responsive + Quick to Mobilize



WALKWAY OVER THE HUDSON BRIDGE INSPECTION

ALTERNATIVE ACCESS SURVEYS

Access constraints can be a challenge for many bridge inspections. McLaren provides innovative solutions that can overcome even the most challenging investigations.

Our team can provide alternative access surveys and condition assessments utilizing aerial drones, SPRAT certified rope access technicians, and an entire fleet of marine and survey vessels that can inspect in shallow and deep waters.

Access Services

SPRAT Certified Rope Access

Drone Investigation Surveys

Remote Unmanned Vessels

Marine and Survey Boat Fleet

Inspection Vehicle Fleet

Abseiling



DRONE INSPECTIONS



ROPE ACCESS SPRAT
CERTIFIED



VESSEL FLEET



McLaren

ENGINEERING GROUP

NEW JERSEY (HEADQUARTERS)

530 Chestnut Ridge Road
Woodcliff Lake, NJ 07677
201.775.6000

mgmclaren@mgmclaren.com

NEW YORK CITY

218 W. 40th Street, 8th Floor
New York, NY 10018
212.324.6300

NY CAPITAL DISTRICT

5 Clinton Square, 3rd Floor
Albany, NY 12207
518.992.4830

MARYLAND

601 E. Pratt Street, Suite 302
Baltimore, MD 21202
410.243.8787

FLORIDA

201 N. Magnolia Avenue
Suite 101
Orlando, FL 32801
407.354.5411

PHILADELPHIA

100 S. Juniper Street, 3rd Floor
Philadelphia, PA 19107
215.310.3765

LEHIGH VALLEY, PA

5100 W. Tilghman Street
Suite 265
Allentown, PA 18104
610.571.3240

GEORGIA

4590 Kettering Drive NE
Roswell, GA 30075
404.891.6412

CALIFORNIA

2044 Beebee Street
San Luis Obispo, CA 93401
818.652.9157

CONNECTICUT

500 West Putnam Avenue
Suite 400
Greenwich, CT 06830
203.244.1122



APPLIED INGENUITY

www.mgmclaren.com