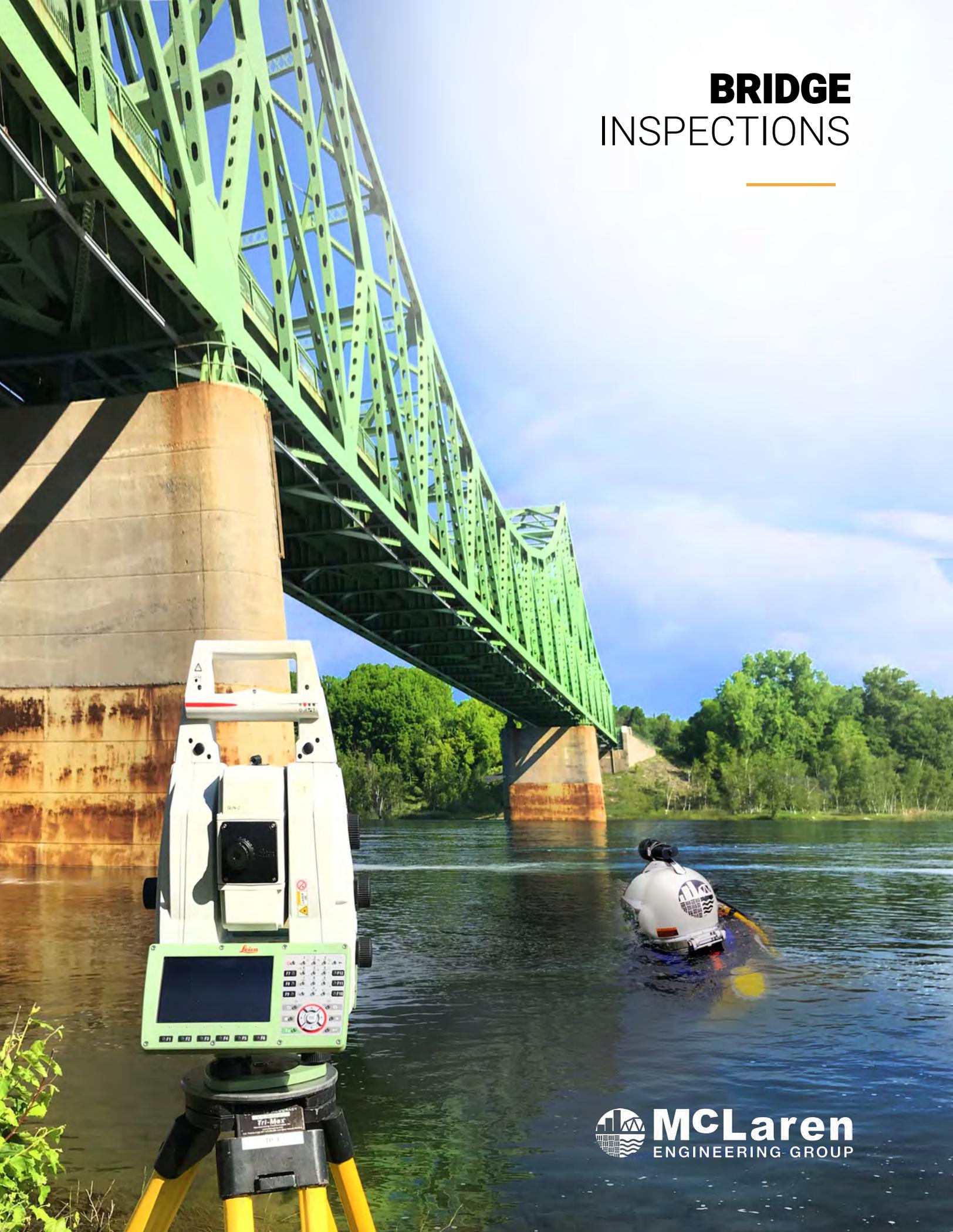


# BRIDGE INSPECTIONS

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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  
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## 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

DIVE INSPECTIONS  
TRANSPORTATION SYSTEM IMPACT  
STUDIES  
SAFETY INSPECTION  
LOAD RATING ANALYSIS  
REHABILITATION DESIGN +  
REMEDATION  
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



NIAGRA 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



GEOGRAPHICAL  
MULTIBEAM SURVEY

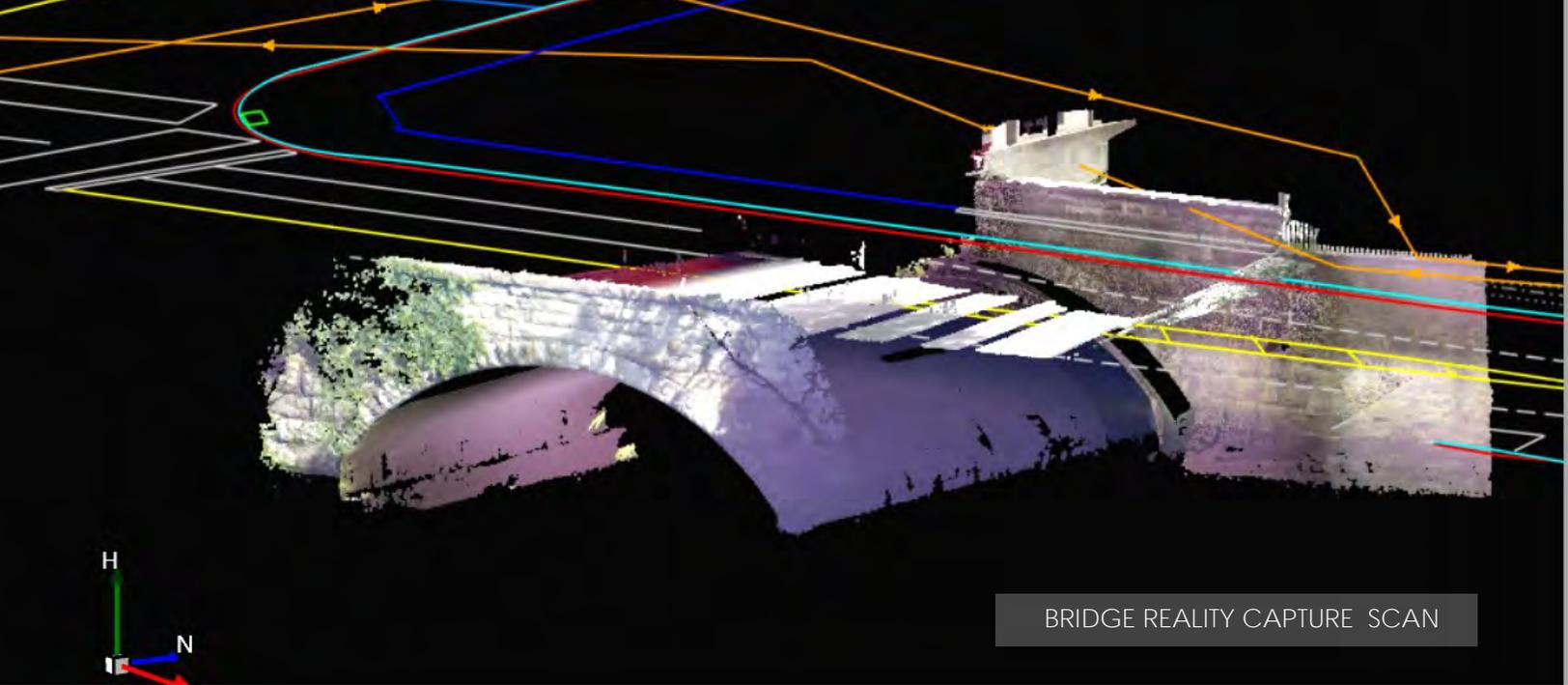
## HYDROGRAPHIC + GEOGRAPHICAL

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



BRIDGE REALITY CAPTURE SCAN

# 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

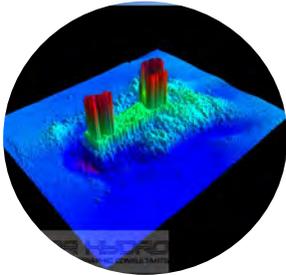
- Feasibility Studies
- Condition Analysis Reports
- Load Ratings
- Compiled Sonar Imaging
- Reality Capture Scans
- Simulations
- 3D Computer Modeling
- Designs + Drawings



FATHOMETRIC SURVEY SIMULATION



COMPILED SONAR IMAGING



BRIDGE 3D IMAGING



UNDERWATER INVESTIGATION



INSPECTION ANALYSIS



DIVING 365 DAYS  
A YEAR



EMERGENCY  
RESPONSE

## PE DIVER INSPECTION

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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



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