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# ***Rehabilitation of Bridge No. CUY-322-15.34 over the Chagrin River Gate Mills, Ohio***

## ***Project Description***

Pro Geotech, Inc. (PGI) performed materials testing and bridge inspection services for the CUY-322-15.34 (Mayfield Road) bridge over the Chagrin River in Gates Mills, Ohio. The 1939 structure consists of a two span, steel beam bridge deck on a concrete pier and abutments with wingwalls. The structure carries four lanes, a median, and two sidewalks over the Chagrin River. Part of each abutment and all of the wingwalls are covered with sandstone block facing.

PGI obtained a total of 13 core samples from the structure for chemical and physical testing. Five cores were advanced through the bridge deck to determine composition and thickness. Four core samples were obtained from each abutment and wingwall to determine the quality of the concrete through testing. PGI performed four unconfined compressive strength tests on the abutment core samples in addition to performing three chloride content tests on each of the eight abutment/wingwall core samples. The concrete core samples were obtained and tested in accordance with ASTM specifications.

### **Client:**

ODOT District 12  
5500 Transportation Boulevard  
Garfield Heights, OH 44125

### **Contact:**

Mr. Jeff Leake  
(216) 584-2112

### **Performance Period:**

2007

### **Project Costs:**

\$16,570 (Fee)

### **PGI's Role:**

Bridge Deck and Abutment Coring  
and Scour Test Boring Evaluation

