Project Profile: HAND TUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

New Ragged Mountain Dam
Charlottesville, VA



PROJECT OVERVIEW AND CHALLENGES

As part of improvements to increase the capacity of the Ragged Mountain Dam in Charlottesville, VA a tunnel was built to convey primary spillway discharges and house the 36 inch diameter raw water intake pipe which will convey water from the reservoir to the existing treatment facilities near the University of Virginia campus. The 10-foot horseshoe shaped tunnel was 482-feet long. It was constructed by the drill & blast method through 27 ksi granite. The walls were supported by rock bolts and a few areas were agmented with shotcrete, wire mesh & lattice girders.





PROJECT INFORMATION - 518

OWNER:
Rivanna Water & Sewer Authority
Doug March
(434) 977-2970
Dmarch@rivanna.org

ENGINEER:
Schnabel Engineering South, LLC
Tim Mohr
(804) 339-6469

CONTRACTOR:
Thalle Construction Company, Inc.

COMPLETION DATE:
3/28/2013

GEOLOGY:
Granite Rock

EXCAVATION METHOD:
Drill & Blast Hand Mine with SEM

MINING DIMENSIONS:
482' x 114"Ø

FINAL LINING:
Mostly rock bolts, spot shotcrete & lattice girders
36" DIP mounted on concrete pedestal

FOR MORE INFORMATION:
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Refer to Project 518