

ODEC Wildcat Point Raw Water Supply Peach Bottom, PA



PROJECT OVERVIEW AND CHALLENGES

ODEC's Wildcat Point Generation Facility (WPGF) in Cecil County, MD will use water from the Conowingo Reservoir in Lancaster County, PA. The Wildcat Point Raw Water Supply Project, consisting of a pump house, wet well shaft and pipelines to convey water from the Susquehanna River to WPGF. These pipelines run through an 830', 60" diameter microtunneled Permalok® steel casing, completed in June 2016, mirroring a sister project by Bradshaw on the opposite river bank six years ago. Geotechnical conditions were challenging, starting in 160' of rock from the wet well underneath a Norfolk Southern railroad, and then transitioning into very soft, river deposits under the reservoir, 670' to the intake structure location. Microtunneling through the very soft silts and clays underneath a body of water creates a floatation concern for the casing, which was designed to counter those buoyant forces.



PROJECT INFORMATION - 552

OWNER:

Old Dominion Electrical Corporation
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ENGINEER:

Burns & McDonnell
Robert Fayard
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CONTRACTOR:

Allen Meyers, LP

COMPLETION DATE:

6/10/2016

GEOLOGY:

Weathered Schist Rock / Soft, Fine
Alluvium below River

EXCAVATION METHOD:

Herrenknecht AVN-1200TC MTBM

MINING DIMENSIONS:

830' x 60"Ø

FINAL LINING:

60" Steel Casing
HDPE Pipes - 2" to 24" (by Others)

FOR MORE INFORMATION:

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Refer to Project 552