

## Charleroi Locks and Dam

Charleroi, PA

### Project Description

Construction of portions of new river wall using "in-the-wet" construction techniques for drilled shafts and mass concrete placement.

### Owner

US Army Corps of Engineers

### Contractor

Trumbull Brayman, J.V.

### Designer

INCA Engineers, Inc.

### Our Role

Design of specialized lifting systems, work platforms, sheet piling, and other temporary structures during construction.

### Total Contract Value

\$96.5 million

### Timeline

2005-2010

### Construction Method and Specifications

McNary Bergeron assisted the contractor in developing a pre-cast chamber filling culvert system that is suspended below water during tremie concrete placement. The system consists of precast concrete segments that are epoxy joined and post-tensioned together on temporary shoring prior to being lowered on PT bars into final position. McNary Bergeron provided expertise in concrete segment casting and post-tensioning similar to segmental bridge construction that is being adapted to the Contractors preferred construction methods.

