

Underwater Tunnel Rehabilitation with Diver Operated Vehicle

Two 70- to 90-year-old concrete lined raw water tunnels have experienced much distress and cracking over their extended life, re-lining the tunnels was necessary to continue their service and complete other repairs. An “In wet repair” approach was utilized with custom stainless-steel liners that would be assembled by divers at the invert of the tunnel and transported over 700 feet down the tunnel for installation by a transporter vehicle, integrating an electric over hydraulic power system, operated by two divers. It has two onboard underwater monitors and eight LED lights allowing divers to navigate the 25’ long transporter down the tunnel with load capacity of just over 9,000 lbs.