The 33-year old Little Para Dam provides water for the city of Adelaide, Australia. The dam required an upgrade in order to increase its capacity, and to comply with modern dam safety standards. Engineers from Hydroplus Australia created a new design which met demands for carbon neutrality and a lifespan of 100 years with virtually no maintenance. The design utilises a 6 m high stainless steel composite wall section fixed to a 0.5 m thick pre-cast concrete base. The solution reduced construction time on site and overall cost when compared to a conventional dam constructed from reinforced concrete.

**Location**  
Adelaide, Australia

**Environment**  
Outdoor

**Product**  
Duplex Stainless Steel: LDX 2101®

**Fabrication process**  
Laser cutting, MIG welding

**Grade/surface**  
Cold rolled coil/2e finish, pickled, cut edge

**Material thickness/diameter**  
Mainly 4 mm coil

**Weight**  
Approximately 80 tonnes

**Competing material**  
Reinforced concrete

**Date of Completion**  
March 2010

**Manufacturer**  
LWA Engineering/Hydroplus Australia/Sandvik Materials Technology

**Material Supplier**  
Outokumpu

**Source of Information**  
Wd Hakin (Hydroplus Australia)

**Remarks**