

Dam: Wyaralong

Country: Australia

River: Teviot Brook

27°54'31.53"S 152°52'57.40"E

-27.908758 152.882614

Owner/Client: Queensland Water Infrastructure Pty. Ltd.

Designer/Engineer: Wyaralong Dam Alliance (partner design Companies are Hydro Tasmania, SMEC & Paul Rizzo & Associates)

Contractor: Wyaralong Dam Alliance (partner Contractor Companies are MacMahons, ASI & Wagners)

Purpose (code): W

Site start: 01.09.2009

RCC start: 26.04.2010

RCC completion: 20.12.2010

Site completion: 30.06.2011

Height (m): 48

Length (m): 464

Volume of RCC ( $m^3 \times 10^3$ ): 173

Total volume ( $m^3 \times 10^3$ ): Unknown

Reservoir capacity ( $m^3 \times 10^6$ ): 1

Upstream slope:

Forming of upstream face (code): (1)

Downstream slope:

Forming of downstream face (code): (1)

Spillway slope:

Forming of spillway face (code): (1)

Depth of layers (mm): 300

Depth of lifts (mm): 300

Cement content ( $kg/m^3$ ): 85

Pozzolan content ( $kg/m^3$ ): 85

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0475

### Under Construction



RCCDAM0475UC

### Completed Dam



RCCDAM0475CD

### Google Earth



RCCDAM0475GE

# Guide to Abbreviations

## Purpose

- E Environmental
- F Flood control
- G Groundwater recharge
- H Flood control
- I Irrigation
- N Navigation
- P Pollution control
- R Recreation
- W Water supply

## Facing method

- (1) Traditional concrete against formwork
- (2) Traditional concrete against formwork with external geomembrane
- (3) RCC against formwork
- (4) RCC against formwork with external geomembrane
- (5) Traditional concrete against precast concrete panels
- (6) Traditional concrete against precast concrete panels with geomembrane
- (7) RCC against precast concrete panels
- (8) RCC against precast concrete panels with geomembrane
- (9) RCC against precast concrete panels with hot poured membrane
- (10) RCC against precast concrete blocks
- (11) Reinforced conventional concrete cast before RCC placement
- (12) Reinforced conventional concrete cast after RCC placement
- (13) Reinforced concrete cast against precast units or slip-formed facing elements
- (14) Slip-formed/extruded facing elements
- (15) RCC supported by fill shoulders
- (16) Mechanically compacted unformed face of RCC
- (17) Unformed face of RCC
  - ' GEVR/GE-RCC
  - \* Stepped face

## Pozzolans

- (-) No Pozzolan Used
- (C) High-lime flyash (ASTM Class C)
- (F) Low-lime flyash (ASTM Class F)
- (M) Milled sand
- (N) Natural pozzolan (ASTM Class N)
- (R) ROLAC (mixture of flyash and slag with or without limestone fines)
- (S) Ground-granulated blast-furnace slag
- (L) Mixture of GGBFS and limestone fines