

Dam: Shiramizugawa

Country Japan

River Shiromizu

38°26'56.12"N 140°28'30.95"E

38.448921 140.475266

Owner/Client Yamagata Prefecture

Designer/Engineer Yamagata-ken

Contractor Nishimatsu Construction Co Ltd and Nippon Kokuad Kaihatsu Co Ltd (J.V.)

Purpose (code) F I

Site start 23.10.1984

RCC start 29.10.1985

RCC completion 06.06.1988

Site completion 26.04.1990

Height (m) 55

Length (m) 367

Volume of RCC ($m^3 \times 10^3$) 142

Total volume ($m^3 \times 10^3$) 314

Reservoir capacity ($m^3 \times 10^6$) 5

Upstream slope V

Forming of upstream face (code) (1)

Downstream slope 0.80

Forming of downstream face (code) (1)

Spillway slope 0.80

Forming of spillway face (code) (1)

Depth of layers (mm) 150 - 200

Depth of lifts (mm) 500

Cement content (kg/m^3) 96

Pozzolan content (kg/m^3) 24

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0040

Completed Dam



RCCDAM0040CD

Google Earth



RCCDAM0040GE

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