

Dam: Sakaigawa

Country Japan

River Sakai

36°20'55.3"N 136°50'23.05"E

36.348694 136.839737

Owner/Client Toyama Prefecture

Designer/Engineer Toyama-ken

Contractor Sato Kogyo Co Ltd, Dai Nippon Construction Co Ltd and Tonami-Kogyo Co Ltd (J.V.)

Purpose (code) F H I W

Site start 01.03.1985

RCC start 01.01.1987

RCC completion 31.07.1991

Site completion 31.01.1993

Height (m) 115

Length (m) 298

Volume of RCC ($m^3 \times 10^3$) 373

Total volume ($m^3 \times 10^3$) 713

Reservoir capacity ($m^3 \times 10^6$) 60

Upstream slope V
0.80

Forming of upstream face (code) (1)
(1)

Downstream slope 0.78

Forming of downstream face (code) (1)

Spillway slope 0.78

Forming of spillway face (code) (1)

Depth of layers (mm) 180

Depth of lifts (mm) 750

Cement content (kg/m^3) 84

Pozzolan content (kg/m^3) 36

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0081

Completed Dam



RCCDAM0081CD

Google Earth



RCCDAM0081GE

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