

Dam: Apporo

Country Japan

River Atsuma

42°46'0.28"N 141°59'35.36"E

42.766743 141.993149

Owner/Client Hokkaido Prefecture

Designer/Engineer Docon Co. Ltd.

Contractor Ando-Hazama Corp.

Purpose (code) F I W

Site start 01.10.2014

RCC start 01.06.2015

RCC completion 30.06.2016

Site completion 20.03.2018

Height (m) 47

Length (m) 516

Volume of RCC (m³x10³) 354

Total volume (m³x10³) 490

Reservoir capacity (m³x10⁶) 106

Upstream slope 0.80

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) 250

Depth of lifts (mm) 750

Cement content (kg/m³) 80

Pozzolan content (kg/m³) 0

Code for pozzolan (-)

RCCDAM Unique Serial No. RCCDAM0664

Google Earth



RCCDAM0664GE

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