

Dam: Damad

Country Saudi Arabia

River Jawrah

17°11'55.07"N 42°59'20.4"E

17.198631 42.988998

Owner/Client Ministry of Water and Energy of the Kingdom of Saudi Arabia

Designer/Engineer Temelsu International

Contractor Yuksel Saudia

Purpose (code) F I W

Site start 01.05.2006

RCC start 01.01.2008

RCC completion 31.12.2009

Site completion 31.05.2010

Height (m) 52

Length (m) 592

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 207

Total volume (m<sup>3</sup>x10<sup>3</sup>) 384

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 33

Upstream slope Unknown

Forming of upstream face (code) Unknown

Downstream slope Unknown

Forming of downstream face (code) Unknown

Spillway slope Unknown

Forming of spillway face (code) Unknown

Depth of layers (mm) 300 - 500

Depth of lifts (mm) 1000 - 1500

Cement content (kg/m<sup>3</sup>) Unknown

Pozzolan content (kg/m<sup>3</sup>) Unknown

Code for pozzolan Unknown

RCCDAM Unique Serial No. RCCDAM0800

### Google Earth



RCCDAM0800GE

# 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