

Dam: Barnard Creek Canyon Debris Dam

Country USA

River Barnard Creek

40°54'58.74"N 111°51'45.25"W

40.916317 -111.862572

Owner/Client Davis County Flood Control

Designer/Engineer ESI Consultants

Contractor Nordic Industries

Purpose (code) F

Site start 01.08.1999

RCC start 04.11.1999

RCC completion 07.11.1999

Site completion 31.01.2000

Height (m) 18

Length (m) 46

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

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

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

Upstream slope V

Forming of upstream face (code) (18)

Downstream slope 0.75

Forming of downstream face (code) (18) \*

Spillway slope 0.75

Forming of spillway face (code) (18) \*

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content ( $kg/m^3$ ) 108

Pozzolan content ( $kg/m^3$ ) 84

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0221

## Under Construction



RCCDAM0221UC

## Completed Dam



RCCDAM0221CD

## Google Earth



RCCDAM0221GE

# 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