

Dam: Alan Henry Spillway

Country USA

River Double Mountain Fork

33°3'47.33"N 101°2'48.75"W

33.063148 -101.046875

Owner/Client Brazos River Authority

Designer/Engineer Freese & Nichols

Contractor Granite Construction Co.

Purpose (code) W

Site start 01.03.1991

RCC start 01.12.1991

RCC completion 30.04.1992

Site completion 31.12.1993

Height (m) 25

Length (m) 84

Volume of RCC ($m^3 \times 10^3$) 22

Total volume ($m^3 \times 10^3$) 23

Reservoir capacity ($m^3 \times 10^6$) 140

Upstream slope V

Forming of upstream face (code) (13)

Downstream slope 1.10

Forming of downstream face (code) (17)

Spillway slope ogee

Forming of spillway face (code) (1)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m^3) 119

Pozzolan content (kg/m^3) 59

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0095

Under Construction



RCCDAM0095UC

Completed Dam



RCCDAM0095CD

Google Earth



RCCDAM0095GE

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