

Dam: Tie Hack

Country USA

River South Fork Clear Creek

44°17'8.14"N 106°55'17.83"W

44.285595 -106.921616

Owner/Client City of Buffalo

Designer/Engineer States West Water & Woodward Clyde Consultants

Contractor ASI RCC Inc (Moltz Construction)

Purpose (code) W

Site start 01.05.1996

RCC start 01.10.1996

RCC completion 31.08.1997

Site completion 31.12.1997

Height (m) 41

Length (m) 170

Volume of RCC (m³x10³) 62

Total volume (m³x10³) 69

Reservoir capacity (m³x10⁶) 3

Upstream slope V

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) 300

Depth of lifts (mm) 300

Cement content (kg/m³) 89

Pozzolan content (kg/m³) 83

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0187

Under Construction



RCCDAM0187UC

Completed Dam



RCCDAM0187CD

Google Earth



RCCDAM0187GE

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