

Dam: Carroll E. Ecton - formerly
Winchester

Country USA

River Upper Howard Creek

37°56'56.53"N 84°13'47.49"W

37.949036 -84.229858

Owner/Client Winchester Municipal Utility

Designer/Engineer Parrot, Ely & Hurt & Palmer Engineering Co

Contractor McCormick Contractors

Purpose (code) W

Site start 01.06.1984

RCC start 01.08.1984

RCC completion 30.11.1984

Site completion 31.01.1985

Height (m) 23

Length (m) 363

Volume of RCC (m³x10³) 24

Total volume (m³x10³) 27

Reservoir capacity (m³x10⁶) 2

Upstream slope V

Forming of upstream face (code) (6)

Downstream slope V
1.00

Forming of downstream face (code) (5)
(17)

Spillway slope 1.00

Forming of spillway face (code) (1)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m³) 104

Pozzolan content (kg/m³) 0

Code for pozzolan (-) -

RCCDAM Unique Serial No. RCCDAM0019

Under Construction



RCCDAM0019UC

Completed Dam



RCCDAM0019CD

Google Earth



RCCDAM0019GE

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