

Dam: Guilman-Amorin

Country: Brazil

River: Piracicaba

19°42'29.73"S 42°57'38.2"W

-19.708258 -42.960609

Owner/Client: Belgo Mineira-Samarco

Designer/Engineer: DAM Engenharia

Contractor: Andrade Gutierrez Construction Co.

Purpose (code): H

Site start: 01.01.1997

RCC start: 01.01.1998

RCC completion: 31.12.1999

Site completion: 31.12.2000

Height (m): 41

Length (m): 499

Volume of RCC (m³x10³): 85

Total volume (m³x10³): 102

Reservoir capacity (m³x10⁶): 12

Upstream slope:

Forming of upstream face (code):

Downstream slope:

Forming of downstream face (code):

Spillway slope:

Forming of spillway face (code):

Depth of layers (mm): 300

Depth of lifts (mm): 300

Cement content (kg/m³): 80

Pozzolan content (kg/m³): 20

Code for pozzolan: (N)

RCCDAM Unique Serial No.: RCCDAM0226

Completed Dam



RCCDAM0226CD

Google Earth



RCCDAM0226GE

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