

Dam: Bukhtarma Country Kazakhstan

River Irtysh 49°39'30.94"N 83°20'44.67"E 49.658592 83.345741

Owner/Client Ministry of Energy

Designer/Engineer Unknown

Contractor Unknown

Purpose (code) F H

Site start 01.05.1955

RCC start 01.09.1957

RCC completion 31.10.1961

Site completion 30.12.1963

Height (m) 90

Length (m) 450

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 587

Total volume (m<sup>3</sup>x10<sup>3</sup>) 988

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 31

Upstream slope V

Forming of upstream face (code) (10)

Downstream slope 0.80

Forming of downstream face (code) (3)

Spillway slope 0.80

Forming of spillway face (code) (3)

Depth of layers (mm) 300

Depth of lifts (mm) 1200

Cement content (kg/m<sup>3</sup>) 135

Pozzolan content (kg/m<sup>3</sup>) 80

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0009

## Completed Dam



RCCDAM0009CD

## Google Earth



RCCDAM0009GE

# 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