

Dam: Enciso

Country Spain

River Cidacos

42°08'40.66"N 2°16'39.21"W

42.144627 -2.277558

Owner/Client Confederación Hidrográfica del Ebro, Ministerio de Agricultura Alimentación y Medio Ambiente

Designer/Engineer Confederación Hidrográfica del Ebro and Tyspa/Sering JV

Contractor Dragados S.A./FCC J.V

Purpose (code) I W

Site start 01.07.2008

RCC start 19.08.2014

RCC completion 19.07.2017

Site completion 30.09.2018

Height (m) 103

Length (m) 376

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 698

Total volume (m<sup>3</sup>x10<sup>3</sup>) 765

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 47

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/m<sup>3</sup>) 60

Pozzolan content (kg/m<sup>3</sup>) 140

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0642

## Under Construction



RCCDAM0642UC

## Completed Dam



RCCDAM0642CD

## Google Earth



RCCDAM0642GE

# 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