



Riosequillo reservoir

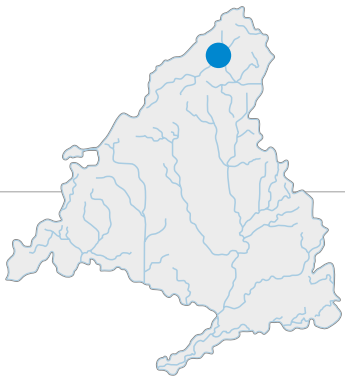
The integrated water cycle • Water collection

Riosequillo reservoir

The Riosequillo reservoir was inaugurated in 1958 to solve the potable water shortage problems caused by the increase in the population of Madrid after the Spanish Civil War.

Located downstream of the Pinilla dam it was the headwater reservoir until the latter entered into service in 1967. It discharges into the Puentes Viejas reservoir.

The dam is of a gravity type with mixed plant and it is formed by 2 straight alignments joined by a 19m long curved section. It has 4 different transversal section types due to the extended length of its crest, which at over one kilometre in length is one of the longest in Spain.



Capacity
50 hm³
Surface area
326 ha
Type
Gravity dam



A hydroelectric power station was installed in 1991 whose turbines are driven by the water that discharges into the river.

 Watch a video about the Riosequillo reservoir

 See a table of reservoirs



Relevant technical data

Reservoir

Capacity:	50 hm ³
Average supply:	46 hm ³ /year
Basin area:	138 km ²
Maximum surface area of the reservoir:	326 ha
Length of the shoreline:	26 km
Length of the river in the reservoir:	7.5 km

Dam

Classification:	Type A
Type:	Gravity. Mixed plant
Stage height over foundations:	56 m
Crest length:	1,060 m
Crest width:	5 m
Wall slopes:	upstream: 0.05 m downstream: 0.74 m
Volume of the construction:	203,000 m ³
Galleries:	2 horizontal

Control elements

Spillway

Number of runs:	2
Total length:	16 m
Control element:	Compuerta Stoney Height: 5 m
Relief capacity:	390 m ³ /s

Drainage

Location:	Intermediate + invert
Number of conduits:	2 + 4
Control element:	Double slide gates
Dimensions:	125 x 200 cm
Drainage capacity:	320 m ³ /s

Auscultation elements

- 45 drains
- 55 topographic bases
- 9 flowmeters

Automated auscultation elements

- Measurement of reservoir level
- Thermometer
- Pluviometer
- 5 flowmeters
- 2 differential GPS stations with millimetre precision



Watch a video about water collection



Read a PDF about water collection

Canal 
de Isabel II