

Lesotho

# MOHALE DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
29° 27' 28" S	28° 05' 47" E

## LOCATION

The dam is situated on the Senqunyane River. It is located in Lesotho in quaternary catchment D17B.

## DESCRIPTION

Mohale Dam is the second largest dam in the Lesotho Highlands Water Project (LHWP). It is a concrete-faced rockfill dam. It is connected to Katse Dam through a transfer tunnel which has a maximum capacity of 807.56 million m<sup>3</sup>/a. The dam has a full supply level of 2,075 m and a dead storage level of 2,005 m. The bottom of the reservoir is at 1,940 m.

## PURPOSE

Mohale Dam was built as part of Phase IB of the LHWP to augment South Africa's water supply and generate electricity in Lesotho. The EWR release from the dam is approximately 30.44 million m<sup>3</sup>/a.

## PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m <sup>3</sup> )	FSA (km <sup>2</sup> )	Owner	DWA code	Wall height (m)	Wall length (m)
Mohale	Senqunyane	D17B	938	22.10	Lesotho	D1R003	145	564

\* Live full supply capacity (ORASECOM, 2007a, WRYM datasets and DWA, 1990)



Mohale Dam (© UNOPS/C Mor)

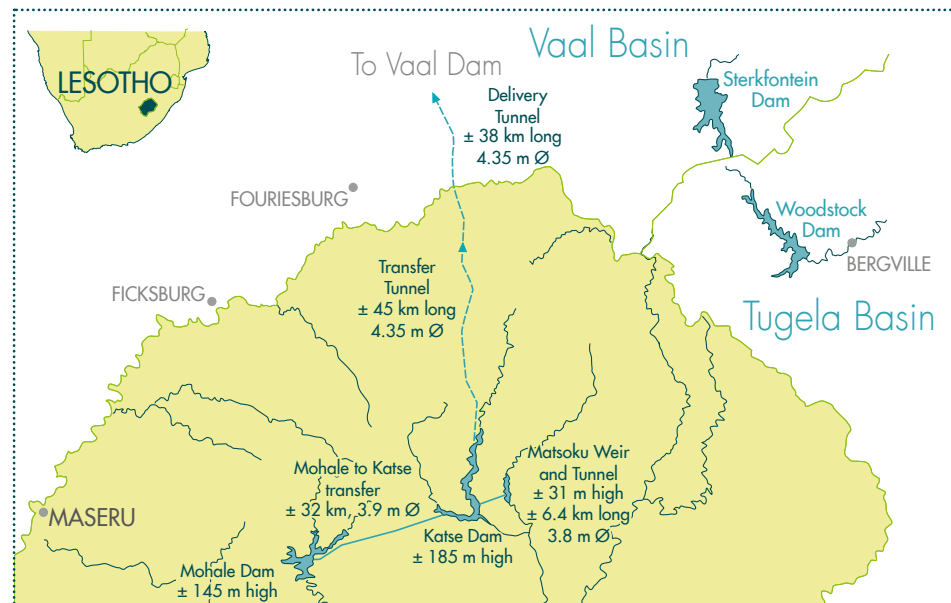


## MOHALE DAM

Year of completion	Demands/abstractions (million m <sup>3</sup> /a)			1:50 yield (million m <sup>3</sup> /a)	Maximum spillway capacity (m <sup>3</sup> /s)
	Domestic	Irrigation	Other		
2000	Unknown	Unknown	Unknown	Unknown	2,600

## AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m <sup>3</sup> )	Surface area (km <sup>2</sup> )
2,075	938	22.10
2,070	828	20.50
2,060	639	17.30
2,050	481	14.30
2,040	351	11.60
2,030	248	9.10
2,020	168	6.90
2,010	108	5.00
2,000	67	3.30
1,940	0	0.00



Phase I of the Lesotho Highlands Water Project

