

LOTLAMORENG DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
25° 52' 32" S	25° 36' 11" E

LOCATION

Lotlamoreng Dam is located in quaternary catchment D41A on the Molopo River in the town of Mahikeng (within the Lotlamoreng Dam Nature Reserve) in South Africa.

DESCRIPTION

Lotlamoreng Dam has a full supply level of 1,226.3 m and a dead storage level of 1,213.4 m. The bottom of the reservoir is at 1,213.0 m. The dam is listed as one of the top ten impoundments in South Africa in need of nutrient management, due to the high level of nutrient enrichment.

PURPOSE

Lotlamoreng Dam is part of the Lotlamoreng Dam Nature Reserve and is used for recreational purposes.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	Owner	DWA code	Wall height (m)	Wall length (m)
Lotlamoreng Dam	Molopo	D41A	0.44	0.30	Unknown	Unknown	Unknown	Unknown

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



Lotlamoreng Dam (source: www.tourismnorthwest.co.za)



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AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,705	0.53	0.34
1,700	0.44	0.30
1,696	0.35	0.26
1,690	0.26	0.22
1,680	0.18	0.17
1,675	0.09	0.11
1,671	0.00	0.00

OPERATING RULE

The Lotlamoreng, Setumo and Disaneng dams are operated as a sub-system, known as the Molopo Sub-system. The operating rule for this sub-system allows the dams to supply the demands imposed upon them until the dams reach their respective minimum operating levels.

