

# Namibia OTJIVERO DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
22° 17' 19" S	17° 57' 54" E
22° 17' 40" S (silt)	17° 56' 27" E (silt)

## LOCATION

The Otjivero Dam is located on the White Nossob River in the Nossob catchment in quaternary catchment in D43A in Namibia.

## DESCRIPTION

The Otjivero Dam has a main dam and a silt trap dam. Water is treated at a purification plant at the dam to supply Omitara and a treatment plant at Gobabis via a 110-km pipeline. The dam has a full supply level of 1,575.5 m. The dead storage level and bottom of the reservoir are at 1,561.15 m.

## PURPOSE

To supply water to Gobabis and Omitara in conjunction with the Daan Viljoen and Tilda Viljoen dams.

## PHYSICAL INFORMATION

Dam name	River	Quaternary catchment †	FSC* (million m <sup>3</sup> )	FSA (km <sup>2</sup> )	Owner	Wall height (m)	Wall length (m)
Otjivero Dam	White Nossob	D43A	9.8 (main dam)	1.50 main	NamWater	16 (main)	320 (main)
			7.8 (silt trap dam)	3.20 silt		17 (silt)	850 (silt)

† ORASECOM, 2011

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

Sources: Personal communication with Hanjörg Drews, NamWater; ORASECOM, 2007



Otjivero Dam (source: www.sun.com.na)



## OTJIVERO DAM

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Year of completion	Demands/abstractions (million m <sup>3</sup> /a)			95% assured yield (million m <sup>3</sup> /a)	Maximum spillway capacity (m <sup>3</sup> /s)
	Domestic	Irrigation	Other		
1984 (main dam)	0.72	0	0	0.72	4,000
1982 (silt dam)	0.80	0	0	*	5,000

\* 0.72 million m<sup>3</sup>/a for both together

## OPERATING RULE

The Otjivero, Daan Viljoen and Tilda Viljoen dams are operated as a sub-system, known as the Molopo Sub-system, Namibia. 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. Water is normally transferred from Otjivero silt to Otjivero main. Otjivero water is normally used first for topping up Tilda Viljoen Dam.

