

ALLEMANSKRAAL DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
28° 18' 15" S	27° 16' 37" E

LOCATION

Allemanskraal Dam is located on the Sand River in quaternary catchment C42E, South Africa.

DESCRIPTION

Allemanskraal Dam has a mass gravity concrete section and an earth embankment on the right flank. It has a full supply level of 1,368.7 m, a dead storage level of 1,355.9 m and the bottom of the reservoir is at 1,353.0 m.

PURPOSE

Allemanskraal and Erfenis dams make up the Sand-Vet Sub-system. Water is released from the system into a canal approximately 115 km in length, in order to supply the Sand-Vet Government Water Scheme downstream.

PHYSICAL INFORMATION

Dam name	River	DWA code	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	Owner	Wall height (m)	Wall length (m)
Allemanskraal	Sand	D4R002	C42E	179.30	26.50	DWA	38	1,338

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



Allemanskraal Dam (source: www.panoramio.com)



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Year of completion	Demands/abstractions (million m ³ /a)			1:50 yield (million m ³ /a)	Maximum spillway capacity (m ³ /s)
	Domestic	Irrigation	Other		
1960	Unknown	35.60 †	Unknown	100 ‡	2,265

† DWA, Directorate of Hydrological Services correspondence, 2012

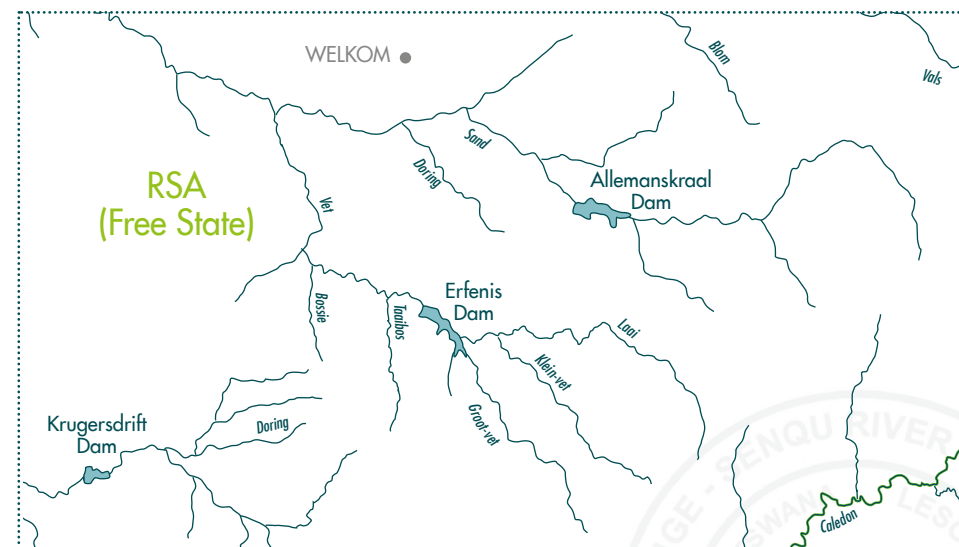
‡ Combined with Erfenis Dam (DWA, 2002b)

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,370	214.71	29.74
1,368	179.31	26.48
1,367	136.99	22.50
1,364	79.43	16.42
1,362	50.95	12.32
1,360	29.92	8.91
1,358	14.69	6.01
1,355	5.11	3.34
1,353	0.00	0.00

OPERATING RULE

Allemskraal and Erfenis dams are operated as part of the Sand-Vet Sub-system. Operating rules allow for these dams to supply their demands until they reach their defined minimum operating levels. The sub-system does not support the Vaal or Bloemhof sub-systems.



Dam network

