

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE		
28°30′27″ S	26°46′42″ E		

## LOCATION

Erfenis Dam is located on the Vet River in quaternary catchment C41E, South Africa.

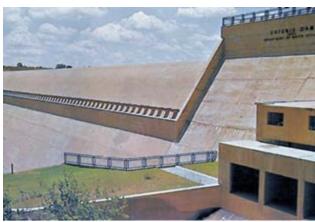
## DESCRIPTION

Erfenis Dam is a mass gravity concrete structure with an overspill section of 183 m approximately in the middle. The main canal extends from the dam down the left flank of the Vet River. It has a full supply level of 1 331.9 m, a dead storage level of 1 318.2 m and the bottom of reservoir is at 1 313.0 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**

Together with Allemanskraal Dam, Erfenis Dam forms the storage for the Sand-Vet Government Water Scheme. The towns of Brandfort and Bultfontein are also augmented with water from the Vet Canal system.





Erfenis Dam (source: SA Dept of Water Affairs)



## PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m³)	SA (km2)	Owner	DWA code	Wall height (m)	Wall length (m)
Erfenis	Vet	C41E	212.2	32.9	DWA	C4R002	46	489

<sup>\*</sup> Live full supply capacity (SANCOLD)

	Year of completion -		s/abstractions (millio	1:50 yield (million m³/a)	Maximum	
		Domestic	Irrigation	Other	m³/a)	spillway capacity (m³/s)
	1959	Unknown	53.6 †	Unknown	100 ‡	3 170

<sup>†</sup> From Reservoir records for 2009 hydrological year

# AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m³)	Surface area (km²)	
1 333	248.745	36.119	
1 332	212.204	32.921	
1 330	153.581	27.454	
1 328	104.947	21.510	
1 326	67.991	15.875	
1 324	40.668	11.432	
1 322	21.580	7.848	
1 319	6.758	3.076	
1 318	4.714	2.392	
1 313	0.000	0.00	

### OPERATING RULE

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



<sup>‡</sup> Combined with Allemanskraal Dam, SA Dept of Water Affairs P09000/00/0101