

**DAM SAFETY OFFICE**

PRIVATE BAG X313 PRETORIA 0001

**APPLICATION FOR CLASSIFICATION OF A PROPOSED NEW DAM
OR ENLARGEMENT OR ALTERATION OF AN EXISTING DAM**

Only applicable if the maximum wall height of the dam exceeds 5 metres and the gross storage capacity is more than 50 000 cubic metres

1. PARTICULARS OF THE DAM OWNER

1.1. Name of dam owner

1.2. Owner's postal address

Postal code

1.3. Tel/cel. no. of dam owner

1.4. E-mail address of person in control of the dam

1.5. Name and postal address of person in control of the dam (if applicable)

Postal code

1.6. Tel/cel. no. of person in control of the dam

1.7. E-mail address of person in control of the dam

2. PROPERTY ON WHICH THE DAM IS OR WILL BE SITUATED AND LOCALITY

2.1. Property description as per title deed

2.2. Magisterial district

2.3. Nearest city/town

2.4. Distance to nearest city or town km

2.5. Direction from nearest city or town

2.6. Number of 1:50 000 scale topographical map *

** A copy of the relevant portion of this map which clearly indicates the position of the dam and downstream area must be attached*

2.7. Position of the centre of the dam wall to an accuracy of one second

Latitude: ° ' " Longitude: ° ' "

2.8. Title deed number

3. GENERAL INFORMATION

3.1. Name of dam

3.2. Name of watercourse or source

3.3. For **clean water** dams, give the purpose of the dam (mark **all applicable purposes** with X)

domestic supply	<input type="checkbox"/>	irrigation	<input type="checkbox"/>	industrial use	<input type="checkbox"/>
stock watering	<input type="checkbox"/>	fisheries	<input type="checkbox"/>	other (specify below)	<input type="checkbox"/>
Describe "other" <input type="text"/>					

3.4. For **wastewater** dams, give the purpose of the dam (mark **all applicable purposes** with X)

pollution control	<input type="checkbox"/>	wastewater disposal	<input type="checkbox"/>	industrial residue	<input type="checkbox"/>
oxidation / evaporation	<input type="checkbox"/>	mine residue	<input type="checkbox"/>	other (specify below)	<input type="checkbox"/>
Describe "other" <input type="text"/>					

3.5. For an existing dam describe the nature and extent of the proposed alterations or enlargements

3.6. Proposed starting date of construction

3.7. Name and postal address of designer or consultant (if available)
 Postal code

3.8. Tel. no. of designer or consultant

3.9. E-mail address of designer or consultant

4. PARTICULARS OF DAM AND BASIN*(For enlargement or alteration of an existing dam, particulars must be for the completed structure)*

4.1. Type of dam (mark applicable type with X - mark more than one for composite dams)

earthfill	<input type="checkbox"/>	rockfill	<input type="checkbox"/>	gravity	<input type="checkbox"/>
buttress	<input type="checkbox"/>	arch	<input type="checkbox"/>	multi-arch	<input type="checkbox"/>
earth "service" reservoir	<input type="checkbox"/>	reinforced concrete "service" reservoir	<input type="checkbox"/>		
mine residue deposit *	<input type="checkbox"/>	industrial residue deposit *	<input type="checkbox"/>		

* This also means any structure generally termed a "tailings or slimes dam"

other (specify)

4.2. Maximum wall height ** m

**** Note! Wall height is the vertical difference between the lowest downstream ground elevation on the outside of the dam wall and the non-overspill crest level or the general top level of the dam wall**

4.3. Crest length of wall m

4.4. Gross storage capacity m³

4.5. Area of water surface at full supply level ha

4.6. Maximum full supply water depth (must be provided) m

Describe with the aid of a 1:50 000 scale map the nature and situation of development downstream of a dam that would be threatened by a failure of the dam. Development means any houses, dwellings, other buildings, roads, bridges, cultivated lands, orchards, powerline foundations etc.

The area downstream of the dam wherein all development must be described is defined as follows;

- For every one metre of maximum wall height, at least one kilometre of the valley downstream of the dam wall should be analysed
- For the calculation of the width of the strip the following heights above river bed may be assumed;

2/3 of maximum wall height for the first kilometre downstream and 1/2 of the maximum wall height for the rest of the downstream distance

Distance downstream (km)	Purpose or use of structure	Height above river bed (m)	Distance from river (m)	Number of inhabitants or users

Distance downstream (km)	(1) Type of road or railway	If a road, is it tarred? (Y/N)	Height of road / railway above river bed (m)	Bridge, culvert or pipe openings				(2) Type of crossing	(3) Visibility distance (m)	Number of vehicles per day
				Width (mm)	Height (mm)	Diameter (mm)	How many?			
			,					i		
			,					ii		
			,					i		
			,					ii		
			,					i		
			,					ii		
			,					i		
			,					ii		
			,					i		
			,					ii		

If the distance equals or exceeds 1 kilometre, enter 999

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