



# ZAAIHOEK TRANSFER SCHEME



Zaihoek Dam (source: SA Dept of Water Affairs)

## LOCATION

This scheme consists of a pumping station in the Slang River and the Zaihoek Dam.

## DESCRIPTION

Water for Majuba Power Station, Volksrust and the Vaal catchment is pumped from Zaihoek Dam in the Thukela Water Management Area to the Uitkyk Reservoir. The pump station has a maximum capacity of 3 m<sup>3</sup>/s but generally delivers at about 0.34 m<sup>3</sup>/s when required for Majuba only. At Uitkyk, there is provision for a diversion to Mahawane Dam to supply Volksrust. From Uitkyk the water can also flow via a gravity main to Majuba Power Station and the water for the Vaal catchment is released into the Perderwaterspruit, upstream of Amersfoort Dam. This transfer has a maximum transfer capacity of 2.79 m<sup>3</sup>/s. Refer to the schematic of the Upper Vaal catchment.

## PURPOSE

The main purpose is to supply water to the Majuba Power Station. However, Majuba is running well below capacity, so surplus water is transferred to supplement Volksrust and the Ngagane River Government Water Scheme and other irrigation. Any further surplus water can be transferred from the Thukela Water Management Area to the Vaal catchment.

