

PROJECT NAME

Extension of the Magaliesburg Wastewater Treatment Works

CLIENT

ProPlan Consulting Engineers *on behalf of* Mogale City Local Municipality

LOCATION

Krugersdorp

PROJECT VALUE

R 24,000,000

SERVICES

Preliminary and process design, detail mechanical and civil design

TIME FRAME

August 2009 (On-going)



The Magaliesburg Wastewater Treatment Plant has a treatment capacity of 1 Mℓ/d. New development in the area has resulted in the Plant needing to be extended by another 3 Mℓ/d. As part of the assignment, provision must be made for a new balancing tank. The architecture of the new plant must complement that of the existing works. As part of this project, untreated water quality is being analysed and process models are being developed on Biowin, in order to optimise the operation of the existing Plant.



The process design focussed on the implementation of a fully biological nutrient removal plant and with the sensitive nature of the catchment, provision had to be made for discharge standards complying with the Special Standards.

Sludge handling always remains an important feature of sewage treatment plants and in this case, provision has been made for sludge treatment by means of anaerobic digesters has been made.

Disinfection by means of chlorine, ultra violet and ozone will be investigated as part of the detail design part of the project.