

Experience in improving access to water supplies and sanitation



Mauritius: Environmental Sewerage and Sanitation Project

Client: Ministry of Public Utilities, Waste Water Authority

Water Management Consultants was commissioned to undertake an environmental impact assessment of the disposal of treated wastewater via borehole injection at Montagne Jacquot treatment works as part of a scheme to improve the sewerage system of Port Louis, the capital of Mauritius.

It was proposed that effluent should be injected into highly permeable volcanic formations near the coast as a cost effective alternative to constructing a conventional long sea outfall.

This study involved hydrogeology, marine biology, oceanography and wastewater treatment, and assessed the potential impact on marine benthic communities and coral reefs in the area of the disposal point. Recommendations were made for design and construction of the works, treatment processes, mitigation measures and a monitoring programme.



Mauritius: without careful management, human activities can destroy the sensitive ecosystems of lagoons and coral reefs.

Western Samoa: Design of Four Rural Water Supply Schemes

Client: Western Samoa Water Authority

Water Management Consultants was commissioned to provide the hydrogeological input to the detailed design of four schemes to provide safe water to 25% of the population of Western Samoa.

Nigeria: Rural Water Supply Project, Niger State

Client: Niger State Water Board

Water Management Consultants managed the programme of well drilling and testing on this turnkey rural and urban water supply project involving 49 separate sites throughout Niger State, supplying 159 communities and over one million inhabitants.

Nigeria: Jigawa State Urban Water and Sanitation Project

Client: UK Department for International Development

This project will strengthen the Government of Jigawa State to provide improved WSS services and will provide new, rehabilitated and extended piped water supply infrastructure to poor communities in five urban centres within a period of 24 months.

Working with the various government agencies in Jigawa State, Water Management Consultants has been appointed to provide technical assistance and training in hygiene education, financial management of utilities, commercial management and strategic planning. WMC is also advising on the development of policy and a strategic framework for urban water supply and sanitation, and on the development of strategies for advocacy on sanitation that are based on formative research.

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Ghana, Tanzania and Zambia: Small Scale Private Sector Participation in the Rural Water Supply Sector

Client: UK Department for International Development

Water Management Consultants, in association with Intermediate Technology Consultants, has been commissioned to produce country-specific and generic best practice guidelines to assist reform of the rural water sector in Africa and elsewhere.

For use by governments and donors, the guidelines aim to transform existing legal, institutional and financial frameworks and enable greater participation of rural based private service providers in the rural water sector, thereby contributing to poverty reduction as well as improving access to rural water supplies.

Teams from the governments of Ghana, Tanzania and Zambia and WaterAid are addressing legal, institutional and financial aspects of the enabling environment for the private sector in each country. The process of investigation and enquiry is enabling the governments to lead the process of sector reform.

Services provided by WMC include design of the study, project management, expert assistance to the country teams, synthesis of generic guidelines and dissemination of outputs to an international audience. Outputs are available from the project website www.ruralwaterpsp.org.



Improved water supplies can have a dramatic effect on people's health

Nigeria: Borehole Drilling in Africa: a Case Study in Nigeria

Client: World Bank Water and Sanitation Division

This study, commissioned by the Water and Sanitation Division of the Infrastructure and Urban Development Department, surveyed and assessed the technical and managerial capacity of the Nigerian drilling industry, in both the public and private sectors, for the execution of groundwater supply projects.

The study determined the main constraining factors in the industry that were preventing efficient delivery of affordable water supply schemes and identified the causes of the high variation in the cost of providing water supplies from groundwater.

The study made recommendations for the development strategy of the RUSAFIYA project in the provision of water supply points and made recommendations for the improvement of the capacity of the water well drilling industry in Nigeria in general.



Affordability and ease of maintenance are key factors determining the design of water supply and sanitation systems

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