

Port Moresby, Papua New Guinea

Port Moresby Telemetry IWON Project

Client: **NCD Water and Sewerage Limited (Eda Ranu) via PNG Water**

Water Systems Optimisation (PNG) Limited in conjunction with local consultants JC-KRTA Consulting (PNG) Limited has been commissioned to implement a telemetry and Integrated Water Operation Network (IWON) system for the water supply system in the National Capital District (NCD) of Papua New Guinea. The project has an extensive scope covering the implementation of a GIS, production of digitized record drawings, implementation of hydraulic modeling software, implementation of a customer help desk and work management system, installation of telemetry / SCADA at reservoirs, pumping stations and water tanks, implementation of an IWON interface system and distribution management advisory service and operations skill transfer.

GIS & Digitized Record Drawings – develop and implement a GIS for the water distribution network based on MapInfo and progressively validate the distribution record drawings to improve accuracy of the digitized pipe records

Update of Hydraulic Model – Implement InfoWorks WS from Wallingford software and progressively develop an “all-mains” model of the distribution network.

Customer Help Desk / Work Management Desk – implement an ORACLE based software system to manage and control customer enquiries and complaints and control the channeling of work orders through to resolution of the complaint.

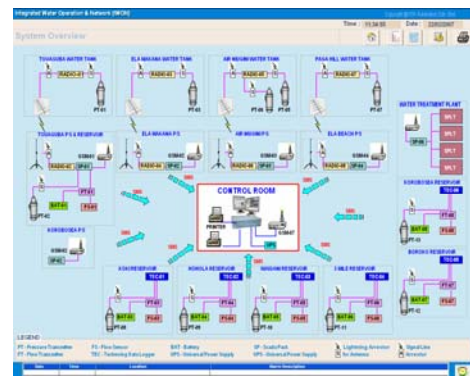
Telemetry / SCADA – implementation of GSM data logger based telemetry at reservoirs and full SCADA based telemetry at pumping stations to allow auto /remote control of pumps.

IWON System Interface – Implement a GE Proficy IFIX SCADA software to provide an Integrated Water Operation Network interface for control of the water distribution system.

Distribution Management Advisory Service / Skills Transfer – provide a “hand-holding” exercise for a period of 12 months after implementing the telemetry IWON system to provide on-job training for the water utility operations unit.



Telemetry Installation



IWON Overview