



KINOYA SEA OUTFALL PIPELINE

Suva City, Fiji Islands

Client: Ministry of Works and Energy, The Government of Fiji

SUMMARY:

Value: US \$6.2 million
Status: Complete 2006
Finance: European Development Fund
Contractor: Mc Connell Dowell (N.Z)
Consultant: Nicholas O'Dwyer (Ireland)

Services Provided:
Project Hydrographic Surveys and Design
Mathematical modelling
Environmental studies
Hydraulic design
Structural analysis and design
Quantity calculations, costing & BOQ
Construction supervision
Detailed works inspection before acceptance

Narrative Description of Project:

Studies and investigations followed by detailed design and construction supervision for a new effluent outfall at Kinoya Sewage Treatment Plant, near Suva City. The works comprised a main outfall of 2,060 lineal metres of 1,400 mm diameter HDPE pipeline (submerged below the seabed over a length of 1,800 m), the installation of 80 pipeline diffusers, concrete chambers, anchor blocks, etc. The outfall is designed to cater for phased discharge increases as the population equivalent moves from 90,000 to 360,000.

Description of Actual Services Provided by Staff:

Review of historical documents, assessment of existing facilities and site investigations. Detailed design, preparation of tender dossier and cost estimates, assistance with tender procedures, tender evaluation and contract negotiations. Contract supervision including performance monitoring, reporting, claims management, general financial control and final account certification.



Nicholas O'Dwyer
CONSULTING ENGINEERS