

Wholesale Water Supply Asset Management Plan 1998

Improvement Plan

Summary and Action Plan - Update to June 2003

Ref No.	Item	Item description	Original Dates	Comment/Status as at June 2003
1	Consultation with Customers	Negotiation of Wholesale Water Supply Agreements	By 30 June 1998	Draft contract received Feb 2003 – under review.
2	Environmental Management System	Council will develop an EMS	To be completed by 31 Dec 1999	EMS certified July 2000. Implementation complete – re-certification audit July 2003.
3	Demand Forecast	Refinements to the SYM including taking account of local effects are envisaged. TAs are to be asked to provide 5 year growth projections for individual supply points.	On going	Construction of network model complete. Model in use
4	Land Management	Compilation of a computerised data base of land information. Assets on private land to be covered by easements.	October 1999	Fox PMS system in place and available on-line.
5	Asset Management System	Implementation of a computer based asset management system.	Implemented by 30 September 1998	The Hansen data base is installed and in use. All assets are now loaded. Additional data will be collected progressively.

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6	Asset Information	See detail below	Completion by 30 June 2000	See detail below
7	Roads Bridges and Structures Information	Compile list of assets. Reconcile with fixed asset register. Prep maintenance programme.	Completion by 30 June 2000	Basic information about these assets has been captured.
8	Plant and Machinery Information	Review existing information	Completion by 30 June 2000	Production assets have now been loaded into Hansen. Additional data will be added progressively. New assets are being loaded progressively.
9	Pipeline Information	Existing data to be reviewed and entered into data base. Detail to be expanded.	Completion by 30 June 2000	Pipeline assets have been loaded and checked. Detail about new and refurbished assets being systematically added.
10	Linking Assets to drawing information	Appropriate, preferably as built record drawings to be listed against each asset.	Completion by 30 June 2000	Complete. GIS project underway – slow progress due to resource limitations.
11	Planned Maintenance Requirements	Preparation of detailed maintenance programmes	Completion by 30 June 2000	All maintenance schedules in Hansen. Reports on costs and completion being generated.
12	Pipeline Planned and Unplanned Maintenance History	Capture of existing maintenance information, leak history etc.		Historic leak information entered. The condition of all valves has been checked and a number have been replaced.

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13	Asset Condition	Develop asset condition assessment techniques and implement condition assessment programme.	Completion by 30 June 2000. Actual condition assessment on going.	Ongoing process.
14	Coordination of tasks	Reach agreement on methodology, resources and programme for the tasks listed under 6.	Completion by 31 August 1998	Close coordination has been achieved between S&A, Production and Distribution staff.
15	Asset Valuation	Comprehensive revaluation of all assets	After compilation of asset information	Component based valuation completed. Component based depreciation being run in Hansen on a monthly basis and reported to Finance Division.
16	Changing Customer Needs	Improved customer liaison and development of formal processes to signal development needs are envisaged.	On going	A clause has been inserted into the draft Wholesale Water Supply Agreement with TAs requiring them to give notice of any proposed new connections.
17	Security of Supply	A coordinated risk analysis to evaluate total risk cost is envisaged.	On going	A wide range of seismic improvements have been investigated and some have been implemented. Work on-going.
18	Efficiency of Delivery	Review of all components of the business is to be undertaken to improve efficiency. Economic analysis for each Capex project to establish operational savings greater than capital cost is promised.	On going	An optimising control system has been installed on the Wainui/Waterloo system. It forecast demand, schedules pumps to achieve the most economic outcome. Significant savings have been achieved.

Ref No.	Item	Item description	Original Dates	Comments/Status as at June 2003	Resource
19	Capital Expenditure Procedure Manual	Procedure manual to identify key stages and accountabilities for implementing capital works is to be prepared.	Completion by 1 December 1998	ALGENZ Contract Management Manual issued. Procedures being drafted as part of ISO 9000 upgrade.	AJMcC, Asset Eng
20	Capital Expenditure Programme	Extend to 20 yr. time frame.	Completion by 1 December 2000	Capital works programme is updated each year.	Asset Eng
21	Asset Capacity and Performance	Review of the capacity and performance of each significant asset is envisaged.	On going	Review of overall capacity completed. Network and SYM model provide tools to undertake detailed analysis of system capacity.	AJMcC, Asset Eng
22	Identification of Critical Assets	This work relates to the identification of the need for and presence of appropriate standby capacity.	Treatment plant equipment and pump stations assessed by 31 December 1998	On-going process. Duplication of critical assets is being achieved. Most recent additions include PLCs and control computers.	Asset Eng, CL, BH
23	Review of Pipeline Spares	A review based on previous seismic vulnerability reviews to determine quantities, cost and storage locations is envisaged.	Completion by 30 June 2000	Spare pipes and couplings were purchased in 1995. A review of the current seismic stock has been completed. Additional purchases being considered.	Group Manager, Production.
24	Deferred Maintenance	Some deferred maintenance is expected to be revealed by a comprehensive review of assets and their performance.	Completion 30 June 2000	Some deferred maintenance of above ground pipelines has been identified. This is currently being attended to.	Distribution & Production Managers
25	Disposal Plan	Plan for the disposal of surplus assets	Completion by 30 June 2000	Surplus buildings at Kaitoke and Ngauranga have been demolished. Other major surplus assets include the lower Wainui Dam and Haywards No.1 reservoir. Wetland behind Wainui Lower Dam to be investigated. Production and distribution staff have combined in	Asset Eng

				a new facility at Waterloo. Mabey Road facility vacated.	
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