

STEPHEN PRESTON

General

Full Name: Stephen John Preston
 Profession: Company Principal & Non revenue water specialist

Key Qualifications:

Stephen is Managing Director of the WSO Group and has more than 25 years experience in the international water-sector consultancy business. He developed highly successful Non-Revenue Water reduction projects in Malaysia and Papua New Guinea and was instrumental in establishing the group's international subsidiaries. Demonstrably strong technical skills in Non-Revenue Water control with experience in the water industries of UK, US, Middle Eastern, African, Asian and Pacific region. Specialized in water distribution network management including:

- Leakage Control - Leakage Modelling using BABE techniques
 - Water Network Analysis - GIS and Desktop Mapping of Data
 - Water Byelaws
 - Project Planning and Control
 - New Technology Introduction
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Employment and Project Record:

2005 – to date Waterframe Limited, Managing Director

Managing Director of Waterframe Limited with full P&L responsibility for the WSO group of subsidiary companies. Provides significant technical input into the groups portfolio of projects.

2004 – 2005 Managing Director, Bristol Water Services Ltd (BWS)

Managing Director of BWS UK with full P&L responsibility for BWS group of subsidiary companies, including WSO inc. (USA), BWS Malaysia, BWS Papua New Guinea and joint venture project companies. Turned round loss-making US consultancy business by implementing employee time control and contract cost control systems. Project Director on a number of projects contributing significant technical expertise.

2001 – 2004 Bristol Water Services Ltd (BWS), Regional Director SE Asia

An Executive Director of Bristol Water Services Ltd with full P&L responsibility for Bristol Water Services Ltd subsidiary businesses in SE Asia (Bristol Water Services Sdn Bhd, Malaysia, Bristol Water Services (PNG) Ltd and joint venture companies formed for project execution). Also continued to act as Technical Expert on NRW Reduction contracts in Malaysia. Developed a Non-Revenue Water reduction project for Port Moresby, Papua New Guinea. Provided overall project direction to locally based project managers.

1998 – 2001 Bristol Water Services Ltd, Technical Director

Joined Bristol Water Services Ltd in August 1998 as Technical Manager and nominated to the Board of Directors as Technical Director in April 2000. Full responsibility for technical output of the company on all consultancy and

implementation projects. Project Director for PABW Sdn Bhd (a BWS JV Company), with overall Project Control. Provided High Level Modeling of NRW situation in Selangor to enable setting of project performance targets for the performance oriented NRW reduction contract awarded by the State of Selangor, Malaysia and the similar project awarded by the State of Kedah, Malaysia. Specialist consultant on a number of World Bank funded and Client funded consultancy projects; examples include:

Philadelphia, USA:- City of Philadelphia Water Department (PWD) funded project to assess the leakage levels in the supply and distribution network. Training of PWD staff in use of leakage modeling concepts. This spearheaded the group's entry into US market.

- **Dushanbe, Tajikistan:-** World Bank funded consultancy. High-level modeling of NRW situation in Dushanbe. Development of Medium and Long Term strategies for NRW reduction.
- **Dubrovnik, Croatia:-** Netherlands Government funded consultancy. High-level modeling of NRW situation in Dubrovnik Vodovod. Development of Immediate, Medium and Long Term strategies for NRW reduction.
- **Samarkand & Bukhara, Uzbekistan:-** World Bank funded consultancy. High-level modeling of NRW situation in both cities of Samarkand and Bukhara. Development of Medium and Long Term strategies for NRW reduction.
- **Cartagena de Indias, Colombia:-** High-Level Modeling of NRW situation in Cartagena for the World Bank to enable setting of performance targets for the concession holder, Aguas de Cartagena
- **Riyadh Water & Sewerage Authority, Saudi Arabia:-** World Bank funded consultancy for the high level modeling of NRW situation and development of BABE software for use by Riyadh WASA and demonstrate the potential for NRW Reduction and the possible improvement to the prevailing intermittent supply situation.

1995 – 1998 Southern Water Technology Group, Principal Engineer Water Networks

Principal Engineer with the Technology Group of Southern Water. Main objectives and areas of responsibility included:-

- overall management of Southern Water's Distribution Zone Study and Network Model Building programmes to meet regulatory requirements;
- member of Southern Water's Leakage Strategy Group providing technical support and delivery of CAPEX elements of the Leakage Investment Plan;
- principal user of recently developed Economic Leakage Level model. Used to develop strategies for meeting mandatory leakage targets;
- Day to day supervision of technical staff within Networks department engaged on various feasibility and design works for water network related projects;
- Project management using ARTEMIS ProjectView
- Application of a British Standard Quality Assurance (QA) system to Water Networks activities.

Secondments to Southern Water Global on overseas projects included:

Jerusalem Water Undertaking and Nablus Municipality:- Short term consultancy to apply and develop BABE leakage models to local situation and assist in defining strategies for short and long term leakage control.

Shanghai Water Master Plan Project, Shanghai:- Provided primary input to the feasibility and network analysis strategy phase of the Shanghai Water Master Plan Project. Work completed in Shanghai : assessed the priority requirements for the Master Plan and the network analysis of the Shanghai Water Supply

System; reviewed the system components and data availability; developed a programme of data infilling; determined the equipment requirements, prepared contract documents for procurement of equipment; developed strategy for construction of a detailed network model of Shanghai including method statements and fieldwork planning

1994 – 1995 Brown & Root Civil, Leakage Control Engineer, Freetown Infrastructure Rehabilitation Project, Sierra Leone

The Freetown Infrastructure Rehabilitation Project was a World Bank funded project being carried out by Brown & Root Civil (as Howard Humphreys & Partners) for the Guma Valley Water Company. The main aim of the project was to implement a leakage control system and effect a significant reduction in the excessive leakage levels. Mr Preston's objectives and areas of responsibility included :- management of project activities in Freetown; assessment of leakage levels; design and implement a bulk metering system for the supply and distribution network; design and implement district metering within the distribution network; operate and maintain the projects computer facilities, data logging equipment and flow and pressure monitoring equipment; formulate and conduct training programs for local staff in all aspects of leakage control; design reporting systems for the clients leakage control section; advise on operational improvements based on network analysis of the supply and distribution network.

1988 – 1994 ASCO Consulting Engineers, Water Engineer/Project Co-ordinator, Doha Water Loss Control Project for Ministry of Electricity and Water, Qatar

The Doha Water Loss Control project was a QR26,000,000 (US\$7,000,000) project carried out by ASCO Consulting Engineers for the State of Qatar Ministry of Electricity and Water. Work involved producing new and verifying existing record drawings; modeling and analysis of water network system; design and installation of a distribution monitoring system; leak detection and repair; rehabilitation of pipes and fittings; training of local staff and setting up leakage control unit in the Ministry.

1979 – 1988 North West Water Authority, Waste and Consumer Services Engineer

Designed and implemented a leakage control project for West Cumbria; developed programs of work for implementing leakage control projects; Innovated a method of planning and programming leakage control projects using a computer based precedence network analysis package (HORNET); carried out budget control and forecasting for all leakage control activities in Northern Division; initiated trials for the assessment of new technology for water distribution including micro-processor controlled data loggers, meter readout devices, leak noise correlators and flow modulated pressure control devices; implemented new Water supply byelaws and organised retraining and counselling of Byelaw inspectorate staff in all aspects of the new Byelaws; devised and conducted seminars for the general public, local authorities and trade associations on the new Byelaws; provided a reference service for the new Byelaw inspectorate staff on interpretation of Byelaws and Act of Parliament controlling water supply and North West Water policy; dealt with sensitive consumer complaints and problems.

1984 – 1986 North West Water Authority, Planning Engineer

Produced feasibility studies and project appraisals for projects which made up North West Water's major capital investment program of GBP160m p.a.; member of four man team that produced and implemented a computer based Capital Investment Control System; Water Network hydraulic analysis (WATNET); Sewage Treatment process analysis using computer based sewage treatment optimisation models (STOM).

1979 – 1984 North West Water Authority, Analytical Chemist

Sampling and analysis of raw and potable water, raw and treated sewage and sludge, trade waste and effluents. Monitoring of efficiency of water treatment plant, sewage treatment plant and sludge digesters.

Education:

Graduateship of Royal Society of Chemistry (Pt1 with Practical) – Preston Polytechnic

HNC Chemistry – Wigan College of Technology

HNC Civil Engineering – Wigan College of Technology

Languages:

	Speaking	Reading	Writing
English	Mother tongue	Mother tongue	Mother tongue