

Curriculum Vitae

David Grantham

BEng(Hons) CEng CEnv FCIWEM CWEM MCIWM CWM PIEMA MAE

Chartered waste manager and Chartered water & environmental manager

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Qualifications, training, accreditation

BEng (Hons) Civil & Environmental Engineering, Newcastle University, 1987.

Chartered Engineer (CEng) Engineering Council, 1995.

European Engineer, European Federation of National Engineering Associations, 2001.

Chartered water and environmental manager (FCIWEM CWEM) ref.12429, 1989.

Chartered waste manager (MCIWM, CWM) ref.1001148, 1991

Chartered environmentalist (CEnv), Society for the Environment ref.1670, 2005.

Practitioner Member of the Institute of Environmental Management and Assessment.
ref. 691E, 1995

Member of the British Society of Soil Science.

Certificate of Technical Competence in Hazardous Waste Management Operations (Level 4), Waste Industry Training and Advisory Board, 2009.

Certificate of Professional Competence in National Road Haulage (Level 3), Oxford Cambridge and RSA, 2009

Expertise

David is water and waste management consultant/expert witness with more than 30 years of experience including more than 20 years as a director leading technical consultancy and waste management companies. He has developed an in-depth working knowledge of water and waste management methods, legislation and guidance, including as the technically competent manager of hazardous waste treatment sites. David has led award winning water and waste management improvement programmes in a wide range of industries including environmental leadership of nationally significant infrastructure projects. His experience includes standard setting and policy roles in the aviation sector and advisory roles with OFGEM and DCLG.

Expert witness experience

David has been an expert witness since 2001 in commercial and criminal defence proceedings, where his reports have supported a number of successful outcomes including:

- Expert witness in criminal cases concerning breaches of environmental permit conditions, waste duty of care, water treatment failures and trade effluent matters.
- Several cases have involved his analysis of prosecution evidence in relation to quantifying and sampling of: waste; water discharges and bioaerosols including whether the original interpretation of the evidence was valid. His work has enabled clients to successfully defend against the Environment Agency's threat of waste and/or water management prosecutions.
- Several cases have involved his review of the design and operation of drainage and water treatment infrastructure to identify design and operational faults. A recent case included his inspection of a sewerage infrastructure scheme which demonstrated that both faulty design and construction practices contributed to sewage treatment failures. A recent civil case involved his review of an airport's wastewater and drainage practices.
- David's expert witness clients have included: aviation, waste management, construction, food manufacturing, and chemical manufacturing companies.

Key skills

- Defence expert witness in Environment Agency prosecutions
- Expert opinion in commercial disputes involving water and waste management
- Regulatory compliance assessment, and permitting
- Waste management technical competence
- Aviation and construction sector environmental management

Training, qualifications and accreditation as an expert witness

David became a practicing associate member of the Academy of Experts in 2013 and a full practicing member in 2016 (ref. 3382).

He followed an approved training programme and successfully completed each of the required assessments of the Cardiff University Law School Bond Solon Expert Witness Scheme sufficient to be awarded Expert Witness Certificates for Civil and Criminal Law matters in 2016 (Ref. 3586211). Previously he attended the Basic Law for Expert Witnesses course provided by the Expert Witness Institute held at the University of Liverpool in January 2004 and a four day Public Inquiry Procedures course provided by Water Training International in August 1994.

Past and present positions

2009 to present

Managing Director, Environmental Management Consultants Ltd

Past positions:

Managing Director, Reclaimed Appliances Ltd (2008 to 2009)

Managing Director, Grantham Cartwright and Associates Ltd (2001 to 2008)

Senior Lecturer, University of Lincoln (1994 to 2001)

Environmental Engineer, Manchester Airport Plc (1990 to 1994)

Environmental Engineer, North West Water (1987 to 1990)

Selected Experience

David is a water and waste management consultant with over 30 years of experience.

From 1987 to 1990 he worked as a design engineer. He designed new sewerage infrastructure and designed improvements to faulty infrastructure on behalf of engineering consultancies. He designed improvements to Davyhulme Sewage Treatment works for North West Water, at the time Davyhulme was one of Europe's largest sewage treatment works.

From 1990 to 1994, he worked as Manchester Airport's environmental engineer. He designed improvements to the airport's drainage infrastructure such as a centralised vehicle wash and a new fire training ground including its waste water treatment works. During this time he also wrote and presented the water and waste management sections of Loughborough University's Airports and Environment Short Course (1992 to 1995).

He led various airport research and development projects focusing on novel waste water treatment systems and improved waste management practices including:

- Manchester Airport's Project Catalyst, a DTI/DoE sponsored waste minimisation demonstration project and winner of the Institution of Chemical Engineers Gold Medal Award for Environmental Excellence 1994;
- United Utilities (Norweb) and Manchester Airport Plc joint venture research project investigating infra-red de-icing of aircraft, including full scale pilot plant exercises and innovation patenting;
- Environmental Technology Innovation Scheme and Manchester Airport Plc Pilot plant study of glycol/water separation process;

From 1994 to 2001 he was a senior consultant and senior lecturer at the University of Lincoln. He lectured on undergraduate and post graduate courses focusing on environmental management topics such as environmental auditing, wastes and water management, and environmental toxicology.

From 2001 to 2008 he trained and led environmental management consultancy teams at Grantham Cartwright and Associates Ltd a consultancy company he founded. Typical consultancy projects included: environmental permit applications, contaminated land studies, flood risk assessments and ecological studies. During this time he performed expert witness work for cases involving waste management matters and water pollution matters.

He has led many projects on behalf of the UK government's business support functions. David was a UK government Envirowise advisor for more than 8 years and a Manufacturing Advisory Service consultant. David led regional research and development projects focusing on water and wastes management. These included the investigation of commercial opportunities from seafood by-products. His work with food companies also included leadership of a partnership project with Anglian Water and Seafish Industry Authority to implement water management improvements in the seafood sector.

From 2008 to 2009, he was the managing director and corporate technical expert at Reclaimed Appliances, a group of companies operating a number of hazardous waste treatment sites around the UK.

David is currently the managing director and principal consultant at Environmental Management Consultants Ltd., which he founded in 2009. He leads work programmes for large corporate clients, including: Murphy Group, Costain, EDF, National Grid, Heathrow Airport and Thames Water Utilities Limited.

David has designed and implemented improved waste management operations in a wide variety of organisations including: West Burton Power Stations and Southend University Hospital NHS Trust and various waste management companies. He has also implemented operational improvements and secured environmental permits for waste management companies and provided statutory technical competence function for Heathrow Airport and hazardous waste management companies.

From 2010 to 2013 he designed and led Thames Water's water efficiency programme which won two National Water Efficiency Awards in 2012 for excellent stakeholder engagement and contribution to industry knowledge.

In the period to December 2014 he was the Sustainability Lead for Heathrow Airport's £2.5 billion Terminal Two project. The main terminal building achieved BREEAM Excellent criteria establishing a new sustainability benchmark for airport terminals. The project won a Sustainability Leaders Award in November 2013. He subsequently drafted Heathrow's water minimisation strategy and recently reviewed and updated Heathrow's environmental engineering standards. His recent work at UK airports included the development of projects to recycle aircraft de-icing chemicals in order to minimise water pollution caused by airport winter operations.

He has provided environmental management advice and guidance to the Office of Gas and Electricity Markets (OFGEM) through membership of OFGEM's Environmental Discretionary Reward Panel (2013 - 2019). He was a member of a Department for Communities and Local Government (DCLG) working group setting national water efficiency standards subsequently implemented via building regulations.

His recent projects have included providing environmental management advice to construction teams delivering nationally significant infrastructure projects including projects for National Grid, Highways England and HS2.