

EUR ING Dr Sean Moran C.Eng C.WEM FCIWEM PhD MSc BSc

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## Qualifications

<b>C.Eng</b>	Chartered Engineer	1995
<b>C.WEM</b>	Chartered Waste Manager	2017
<b>EUR ING</b>	European Engineer (FEANI)	2013
<b>FCIWEM</b>	Fellow of CIWEM	2022
<b>PhD</b>	Chemical & Environmental Engineering, University of Nottingham	2018
<b>MSc</b>	Biochemical Engineering, University College London	1991
<b>BSc</b>	Science and the Environment, Leicester Polytechnic	1990

## Profile

Sean Moran is a Chartered Engineer with over thirty years' experience in process design, commissioning and troubleshooting. He started his career with the international process engineering Contractors Doosan (now Enpure) and Water Engineering Limited (now WABAG), and worked on many water and environmental engineering projects worldwide before setting up his own consultancy practice in 1996.

His specialist area is the design, commissioning of water, sewage and industrial effluent treatment plants and he has designed, commissioned and consulted on a vast range of projects, from individual residential plants and specialist industrial units through to large municipal projects across the UK, Europe and the Middle East.

Sean has also authored three textbooks on process and water treatment plant design and layout, a dictionary of chemical engineering, and many papers and articles in his area of expertise.

## Key Areas of Expertise

<b>Design</b>	Design, procurement and commissioning for national and international water and environmental engineering projects;
<b>Troubleshooting Consultancy</b>	Troubleshooting, remedial design and re-commissioning of environmental and water treatment plants for municipal and private clients.
<b>Expert Witness &amp; Consultancy</b>	Expert witness in contractual, tort and taxation disputes; technical assistance with planning objections; due diligence for mergers & acquisitions projects

## Examples of Projects Undertaken

2025	CPR Part 35 Expert Witness Instruction relating to dispute over tertiary filtration of MBBR effluent
	Advisory Report in commercial dispute to do with sewage inlet works pumping station
	CPR Part 35 Expert Witness Instruction relating to dispute over a shared private sewage treatment plant
	Overseas Expert Instruction (Singapore): Expert report for parties involved in commercial dispute over advanced sewage treatment plant
	Advisory Report in case to do with quality of installation of a packaged sewage treatment plant
	CPR Part 35 Expert Witness Instruction relating to contractual issues on a drinking water bottling plant, based on RO treatment of groundwater
2024	Advisory Report for UK water plc involved in a contractual dispute relating to one of its municipal sewage treatment works
	CPR Part 35 Expert Witness Instruction relating to nuisance from a sewage treatment plant
	Advisory Report for UK client providing an opinion on specialist terminology to inform the interpretation of contracts in a drainage dispute
2023	Design review of flow and return pipework for a UK due diligence project
	Expert Witness instruction for a UK water plc involved in a contractual dispute relating to one of its municipal water treatment works
	Technical Expert report for a UK insurance loss adjuster on causes of damage at a manufacturing site following contamination with Beryllium dust
2022-24	Technical Expert report for a UK insurance loss adjuster on causes of sewer blockage at a manufacturing site
	Expert Witness instruction relating to corrosion damage to equipment at a UK refinery site
2021-22	Overseas Expert Instruction (Italy): Advisory report for an international insurance loss adjuster over damage to the effluent treatment plant at a sugar refinery
	Expert Witness Instruction from Defendant in contractual dispute over dosing design at a municipal potable water treatment plant (ongoing)
2020-23	Overseas Expert Instruction (Israel): Advisory report for an international insurance loss adjuster over damage to a major municipal pumped storage plant
	Expert Witness Instruction from Defendant in contractual dispute over sewage treatment plant at a residential development
2020	Expert Witness Instruction from Defendant in contractual dispute over sewage treatment plant at a residential development

2019-20	Troubleshooting and design consultancy for international mining company on effluent treatment plant issues (Panama)
2019	<p>Overseas Expert Instruction (Israel): Advisory Report for an international insurance claims handler relating to a non-functioning process plant</p> <p>CPR Part 35 Expert Witness Instruction from Defendant in contractual dispute to do with design, construction commissioning and troubleshooting of effluent treatment plant (judgment for my client).</p> <p>Expert Overseas Instruction (Ireland): Advisory report relating to the nuisance radius for a housing development adjacent to a sewage treatment plant.</p> <p>CPR Part 19 Expert Witness Instruction from catering industry business appealing penalties for breach of consent to discharge to sewer.</p>
2018	CPR Part 35 Expert Witness Instruction – for joint defendants, nuisance claim relating to discharge of trade effluent into a treatment plant at a business park (settled)
2017	<p>Multiple clients: consultancy on malfunctioning effluent treatment plants</p> <p>CPR Part 35 Expert Witness Instruction: contractual dispute relating to design and construction of an industrial effluent treatment plant (settled)</p> <p>Overseas Expert Instruction (Russia): contractual dispute relating to design of specialist water treatment equipment (settled)</p>
1999-2016	Multiple clients: Production of Advisory Expert Witness Reports on problems with industrial and municipal effluent treatment plants
2016	<p>(Various confidential private clients): Design, troubleshooting, modification and commissioning of packaged and custom designed sewage and effluent treatment plants in residential, municipal and industrial settings</p> <p>CPR Part 35 Expert Witness Instruction – contractual dispute relating to design and construction of effluent treatment plant works (settled)</p> <p>Overseas Expert Instruction (Austria) – contractual dispute relating to design and construction of produced water treatment plant works (settled)</p>
2015	<p>CPR Part 35 Single Joint Expert Instruction – contractual dispute relating to completion of effluent treatment plant works (settled)</p> <p>CPR Part 35 Expert Witness Instruction – hydraulics and drainage dispute, including evidence at County Court (judgement for my client)</p>
2013-2014	<p>CPR Part 35 Expert Witness Instruction from confidential client – taxation dispute relating to sewage sludge treatment (settled)</p> <p>CPR Part 35 Expert Witness Instruction – contractual dispute relating to specification/installation of sewage treatment plant (settled)</p>
2012	CPR Part 35 Expert Witness Instruction – dispute relating to the operation of a municipal sewage treatment works (settled)

2012	EPC Groupe UK: troubleshooting and optimising effluent treatment at explosives manufacturing plant
2012	PriceWaterhouseCoopers LLP: Consultancy associated with water treatment industry and equipment suppliers, to inform a merger/acquisition transaction
2011	Rawat Dar Al Handasa Iraqi: Hydraulic design and surge analysis for river intake structure, pumping station and twin 11km pipelines for Ramadi Water Treatment Plant, Iraq
2011	Heyworth: Technical expert consultancy for planning objection
2011	UK Marine & Coastguard Agency via SLR Consulting Ltd: Development of a decision-making tool to be used in the response to coastal oil spills
2010-2012	Barratt Homes via Wilson Bailey Partnership Ltd: Troubleshooting problems with domestic sewage treatment plant, design and commissioning of solution
2009-2010	Colorcon Ltd: Troubleshooting problems with pharmaceutical effluent treatment plant, design and commissioning of solutions
2005-2007	The Kerrygold Co, Ltd: Technical expert consultancy supporting a planning objection to a sewage pumping station near a cheese distribution depot  Johns Water Services: Design of SWRO and MBR Plants for holiday development in Cape Verde
2004	Campbell's Grocery Products: Design and procurement of industrial effluent treatment plant for a food production facility
2003-2012	Sonoco Alcore: Troubleshooting of effluent treatment problems (DAF plus biological)  SLR Consulting Ltd: Commissioning of two water treatment plants, troubleshooting of various water and effluent treatment plants, PCB treatment consultancy, Health Safety and Environment surveys
2002	Alnwick Castle, UK: Hydraulic and process design of new water features for stately home
2001-2010	Envirowise: Provision of advice on environmental, water and effluent treatment matters to many hundreds of UK businesses on behalf of the government-funded Envirowise programme. 150+ site visits. Provided extensive advice on solid waste minimisation and handling, and landfill waste acceptance criteria.
1996-1999	Astra Zeneca Pharmaceuticals: Design of effluent treatment plant, completion of HAZOP study
1993-1995	Jellyholm Water Treatment Works: Refurbishment of the existing drinking water filter station to two-stage DAF and RGF (£5.4M project)  Kimberley Clark: Design of DAF plant for papermill effluent treatment
1991-1993:	Design of Riva Sewage Works, Turkey (\$1.8Bn project)

## Employment

2024-	Independent Expert Engineer Ltd <i>Managing Director &amp; Principal Consultant</i>
1999-2024	Expertise Limited <i>Managing Director &amp; Principal Consultant</i>
2016-2018	University of Chester <i>Royal Academy of Engineering Visiting Professor (part-time)</i>
2011-2015	University of Nottingham <i>Associate Professor of Chemical &amp; Environmental Engineering (part-time)</i>
1996-1999	M.P.S. <i>Technical/Commercial Director</i>
1995-1996	Birtley Engineering <i>Senior Proposals Engineer</i>
1993-1995	Doosan (Now Enpure) <i>Proposals Engineer, Senior Process Engineer</i>
1991-1993	Water Engineering (Now WABAG) <i>Projects Engineer</i>

## Memberships & Awards

Chartered Member, CIWEM	2017-
Editorial Board Member, Ullmann's Encyclopaedia of Industrial Chemistry	2017-
Royal Academy of Engineering Visiting Professorship	2017

## Relevant Training

Excellence in Report Writing	Bond Solon	2023
Writing Expert Reports (Advanced)	Prosols	2016
Successful Communication at Experts' Meetings	ProSols	2014
Expert Witness Report Writing	Expert Witness Institute	2013
Cross Examination Skills	Expert Witness Institute	2013