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more london riverside

# WELCOME Water frameworks



Grontmij has been appointed onto two major water frameworks with Wessex Water and Severn Trent Water. Scott Aitken, director of water, comments, "We are delighted to have been successfully appointed onto these frameworks. It is testament to the fact that Grontmij continues to deliver fresh ideas and approaches to our work."

Welcome to the latest issue of Dialogue, the newsletter from Grontmij.

The focus of this issue is innovation in relation to sustainability. Grontmij has been pushing the boundaries in this area over many years. We recently designed the landlord's building services for 7 More London; which is England's first office building to achieve an 'Outstanding' BREEAM rating. In addition, Grontmij is helping to deliver a masterplan in central Glasgow, which integrates a sustainable drainage system with the creation of a series of urban corridors that will form a new green infrastructure network.

Following recent AMP5 appointments, Grontmij's reputation as a leading player in the UK water industry has been further bolstered. This is through recent contract wins with Wessex Water on its AMP5 treatment workstream and with Severn Trent Water on a hydrogeology framework.

Grontmij is currently refocusing itself along business lines. By aligning with growth markets whilst embracing sustainable principles, Grontmij is in a strong position to meet client needs and is building the foundations for future organic growth.

I hope this newsletter gives you a flavour of the many exciting developments currently taking place.

Lawrence Hughes  
Group Director, Chairman of UK & Ireland



## Wessex Water

Grontmij has been appointed to Wessex Water's five year AMP5 framework agreement. Subject to appointment for individual projects, Grontmij will provide consultancy services to assist the utility company in its treatment workstream. This includes services such as civil, structural, mechanical and electrical engineering design for water and sewage treatment works. Grontmij will work with Wessex Water and Trant Construction (EM&I) to deliver a programme of works within Wessex Water's key performance drivers of safety, quality, the environment, time and cost.

## Severn Trent Water

Grontmij's water resources team has been appointed to Severn Trent Water's four year hydrogeology framework, which is extendable to seven years. The framework includes support for capital schemes, water resource planning and business plan submissions, resolution of groundwater operational and quality issues at abstraction sites, catchment studies, secondments and research. The appointment continues Grontmij's relationship with Severn Trent Water, which goes back over 20 years.

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## ON THE FRONT PAGE

7 More London boasts a number of sustainable carbon saving measures including a bio-diesel fired Combined Cooling Heating & Power (CCHP) trigeneration system. The building has been awarded an 'A' rating Energy Performance Certificate (EPC).



Guy Denton



Geoffrey Palmer



Tony Farrow

# Managing the future

Grontmij is pleased to announce the appointment of new managing directors for the newer companies within the UK & Ireland Grontmij group. Lawrence Hughes, group director, chairman of UK & Ireland, says, "I am pleased to welcome Guy, Geoffrey and Tony to their new appointments and look forward to working with them all in positioning the Grontmij group for future growth."

## Guy Denton – Whitelaw Turkington

Guy, who has worked with Whitelaw Turkington since 1997 and launched the Northern office in 2000, will now head up the practice and continue to work alongside

Lindsey Whitelaw and Ian Turkington, the consultancy's founders. Lindsey will take on the role of head of business development whilst Ian continues to take the creative lead as head of projects.

## Geoffrey Palmer – Roger Preston & Partners

Geoffrey, who joined Roger Preston & Partners as a graduate 22 years ago, is a chartered engineer with experience in large projects across the world. Geoffrey has been one of the main driving forces behind integrating Roger Preston & Partners with the wider group and positioning the practice for future growth. He takes over from

Derek Tuddenham, who will continue to work with Geoffrey to effect a smooth handover.

## Tony Farrow - Trett Consulting

Tony has been with Trett Consulting for 21 years, and has returned to the UK in his new role as managing director of the consultancy having been based in Houston, Texas for the past three years. Roger Trett, founder, will continue in a consultant role for Trett Consulting and also as non-executive Chairman. He will continue to work alongside Trett consultants on expert witness work.

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## Grontmij aligns structure to growth markets



Sustainability at our core

Grontmij is refocusing the business from six separate geographical regions to three business lines to align itself with the most profitable and fastest growing markets; water, energy, transportation next to sustainable planning and design. Consequently, Grontmij will begin to operate and report across three business lines, namely; Planning & Design, Transportation & Mobility and Water & Energy.

Furthermore, Grontmij has announced an enhanced five year strategy with a focus on profitability, organic revenue growth and further expansion by acquisitions. The company will leverage its local expertise to allow greater knowledge sharing and cross-selling internationally across the business.

Sylvo Thijsen, Grontmij CEO, comments, "Our strategy to 2015 is a logical next phase in the development of Grontmij. After a period of sustained organic growth, complemented by acquisitions, our company is now one of the leading design and management consultancies in Europe. Based on our local strongholds focusing on innovations and expertise across the company and actively pursuing new markets for these, we will continue to grow the company and increase our profits. Especially in the current economic climate the organisational change will enable us to better anticipate demand, unlock synergies and leverage this across geographical borders."

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# FEATURE

## Innovation in sustainability



7 More London produces 74% less CO<sub>2</sub> emissions than required by regulations

## 'Outstanding' BREEAM rating for Roger Preston & Partners project

7 More London Riverside has become only the third building in the UK and the first office in England to achieve the BREEAM 'Outstanding' award.

The 60,884m<sup>2</sup>, ten storey building incorporates a range of carbon saving measures, renewable energy provisions and efficient building services systems. These include sculpted solar shading, solar hot water panels, green roofs, heat recovery systems and fully automated building management systems and metering facilities.

The key design aspect that assisted in obtaining the high rating was the implementation of a bio-diesel fired Combined Cooling Heating & Power (CCHP) trigeneration system. This has resulted in 74% less CO<sub>2</sub> emissions than that required under the 2006 Part L2 Building Regulations.

Roger Preston & Partners was responsible for designing all of the base build engineering services and systems for the building. Matthew Thurston, director, said, "This has been a fully collaborative effort between ourselves, BDP, Foster + Partners and MACE

with the full support of our client More London Development and their tenant PricewaterhouseCoopers. The fact that 7 More London has also been awarded an 'A' rating Energy Performance Certificate (EPC) is further testament to the sustainable credentials of this development."

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## South Dalmarnock - integrated urban infrastructure

Grontmij and Whitelaw Turkington have been appointed by The Clyde Gateway Urban Regeneration Company to provide integrated urban infrastructure services for the Dalmarnock area, in support of the lead architect, Sheppard Robson. The masterplan will be driven by a number of engineering constraints including surface water, the sewage network and potential flood risks. Ecological issues, structural analysis, traffic studies, ground conditions, and land contamination will also be considered.

Currently a combined sewage system deals with both foul and surface water run-off for the entire masterplan area and beyond. Its capacity is a limiting factor in allowing new development in the area. To achieve increased capacity, surface water run-off will

be removed from the system and dealt with above ground through a series of regional Sustainable Urban Drainage Systems (SUDS) features. A full flood risk assessment for the site has been progressed by Grontmij.

The principle behind the masterplan is to create a series of urban corridors forming a new green infrastructure network. This network, which connects key spaces within the urban fabric, will allow for movement of people and water, create ecological corridors and provide valuable amenity space. Public open space closer to the River Clyde will be designed as a dramatic series of terraces which accommodate floodwater, therefore acting as compensatory storage.

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South Dalmarnock is part of the Clyde Gateway regeneration scheme



Draft masterplan sketch

## New public spaces for Salford designed by Whitelaw Turkington

Whitelaw Turkington and Arup have had designs approved for two new public spaces at Greengate in Central Salford. The aim of these new spaces is to link Manchester Cathedral Quarter with the heart of a new 13-hectare, mixed-use development.

A new public square, animated by water features and sculptural Beacon Towers, together with a new bridge across the River Irwell are all part of a unique public realm design that will establish the area as a new city centre destination. Designs include environmentally friendly features such as Sustainable Urban Drainage Systems (SUDS) to collect and clean surface run-off.

Greengate will be home to 2,500 residential units, over 85,000m<sup>2</sup> of commercial floor space and is expected to attract over £580 million of private sector investment. Whitelaw

Turkington submitted a planning application in March 2009 with work on the ground starting in 2010. The project is being delivered by Central Salford Urban Regeneration Company (URC) and Salford City Council, working alongside its development partner, ASK Developments.

Nik Puttnam, Senior Development Manager for Central Salford URC, says, "The delivery of this high quality public realm scheme, designed by Whitelaw Turkington, will provide the centre piece and new gateway to Salford. Greengate will provide a catalyst for the effective regeneration of the Chapel Street corridor."

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SUDS - keeping Greengate green



Combining 2500 residential units and 85,000m<sup>2</sup> of commercial space



Clockwise: A830 Arisaig to Loch nan Uamh, New Street Square, 3 Hardman Street

# And the award goes to...

## Green Apple Awards

The Green Apple Awards, held by the Green Organisation, recognise, reward and promote environmental best practice. The award was won by Morrison Construction for the A830 Arisaig to Loch nan Uamh road, the designs for which were provided by Grontmij. The scheme was praised for its conservation area consideration and the use of soil making the project self-sufficient.

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## British Construction Industry Awards

The New Street Square development in London was highly commended in the Major Project category. Whitelaw Turkington partnered with Bennetts Architects on the design of the scheme's externals and provided detailed design service to completion.

The Ashford shared space scheme, for which Whitelaw Turkington was the lead designer, was shortlisted in four categories:

- Prime Minister's Better Public Building
- Civil Engineering
- Local Authority
- Regeneration

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## Office Development Awards

3 Hardman Street in Manchester won the 'Development of the year outside central London' category. Roger Preston & Partners has played a central role in the delivery of the scheme's mechanical and electrical, lifts and fire strategy services. The building has also been awarded an 'Excellent' BREEAM environmental assessment rating. The project also went on to win 'Best Commercial Workplace' at the British Council for Offices (BCO) Northern Awards.

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## Delivering technical excellence



Stewart Evans

Craig Gerry

Stewart Evans and Craig Gerry have been appointed heads of engineering for Water in the UK and Ireland.

The focus is to drive forward the culture of technical excellence and continuous improvement within Grontmij in order to add value for clients. Responsibilities of the heads of engineering include the promotion of technical excellence, embedding best practice, encouraging innovation and people development. In addition to maintaining the highest technical standards and ensuring the most effective solutions are delivered, the heads of engineering will also look at how innovation and cost saving measures for projects identified in one part of Grontmij's operations can be further rolled out across the company.

Chief operating officer, Roger Pyle comments, "These appointments represent a proactive step by Grontmij to strive for technical excellence to ensure that we are delivering the best possible solutions for our clients."

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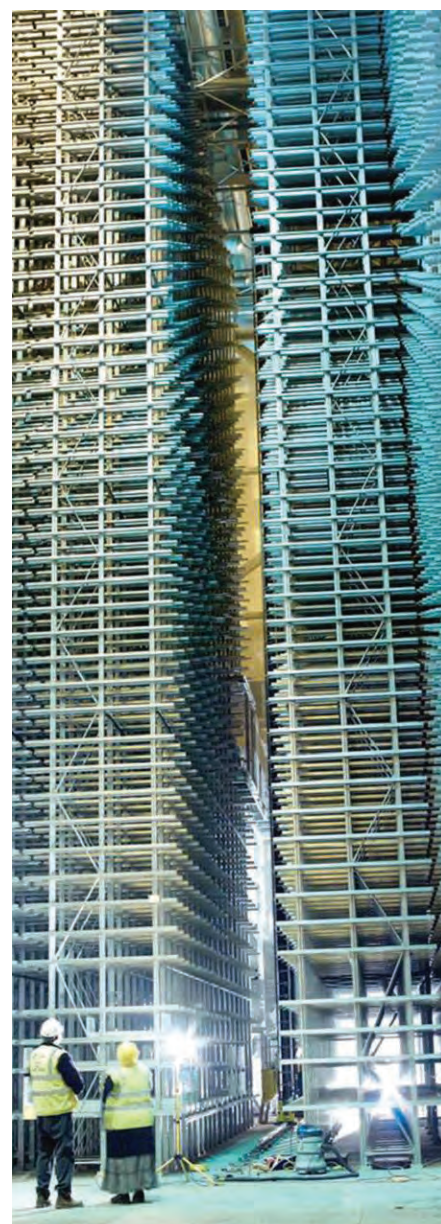
## Managing ground risk

The British Library appointed Grontmij to undertake a site assessment for the world's largest Newspaper Storage Building (NSB) at the Boston Spa site in West Yorkshire. The NSB will have an estimated storage capacity of 1000 linear kilometres.

The new building will boast a low oxygen, temperature controlled and humidity controlled environment and a fully automated racking system. As such, ground settlement tolerances were very small. The Boston Spa site is located upon rocks that are susceptible to chemical weathering, which can cause voiding of the rock and subsequent collapse posing significant risk to the building's stability. Grontmij's geotechnical team worked with the building designer to scope and specify appropriate site investigation providing the detailed information required to mitigate such risks.

An assessment undertaken by Grontmij's ecologists and drainage engineers has enabled the British Library to gauge the environmental impact of the scheme.

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Providing steady foundations for the British Library

## Keeping on track with cross-border collaboration



Implementing transport solutions in Stockholm

Grontmij is helping to deliver the £1.5 billion CityLine project in Stockholm, which aims to solve the capacity problem for rail traffic through the city. It is a long-term solution to the congestion problem within Stockholm but will also have a beneficial effect on rail traffic in the rest of Sweden.

With approximately six kilometres of double-track rail line, the CityLine scheme will exclusively carry commuter traffic and will double the capacity through the city centre. The project also includes the construction of two new stations, City and Odenplan, to ease congestion for commuters.

A Grontmij and Sweco joint venture has been awarded first stage contracts including preliminary design of the two stations and the final design of one of the stations and part of the tunnel. We are delivering the project in collaboration through our UK and Swedish specialists.

John Clark-Hughes, operations director, commented, "The CityLine project is a fantastic project for our engineers to be involved with, and is a real example of how Grontmij sources the best knowledge from around the company in order to deliver the best results for our clients."

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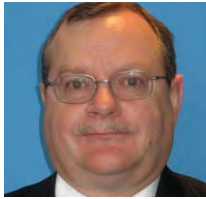
# @one Alliance grows stronger **CONTRACT NEWS**



Stewart Evans



Terry Parsons



Chris Candlish



Lindsey Taylor

Grontmij specialists have been appointed to four of the key roles in the @one Alliance design management team.

Stewart Evans, head of engineering, and Terry Parsons, operations director, will manage the design teams for approximately £400 million of work in AMP5. Teams will be formed from employees from the client, construction partners and consultants within the @one Alliance.

In addition, Chris Candlish, operations director, has been appointed as commercial manager and Lindsey Taylor, engineer, will be product development manager.

Dale Evans, alliance director, added, "On behalf of everyone working in the Alliance, we congratulate them on their individual appointments and wish them every success in these roles."

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## Stanhope

Roger Preston & Partners has recently been appointed by Stanhope to re-commence full full mechanical and electrical design duties on a major London office development. Planning design for the scheme, which is located on Mark Lane in the City, concluded back in 2007. The design team, led by Bennetts Associates Architects, has recently completed a review of the 2007 scheme to bring it in line with new legislation, and are now focused on delivering detailed design by the end of June.

## Forth Crossing Bridge Constructors

Grontmij has been successful in securing a design role with 'Forth Crossing Bridge Constructors' (a consortium of Hochtief, Dragados, American Bridge and Morrison Construction) for the £1.2 billion scheme. The 'Invitation to Participate in Dialogue' process runs from December 2009 until December 2010. If the tender is successful, construction would start in 2011 and open to traffic in 2016.

## United Utilities

Grontmij has been commissioned by United Utilities (UU) to provide consultancy services for solution development, including scope book production, for four Unsatisfactory Intermittent Discharges (UIDs) in the Carnforth area of Lancaster. The UID's have been designated as unsatisfactory against aesthetic / bathing waters drivers. To deliver the solutions, Grontmij has been engaged by UU Engineering Services, utilising UU AMP5 procedures and sharing best practice, lessons learnt and innovations in design and management.

## Environment Agency

The Environment Agency has decided to replace its current telemetry systems with a single national system providing coverage for the whole of England and Wales to meet current and known future business needs and drivers. As part of the Telemetry Consultancy Framework, Grontmij has been selected to assist in the collation of the business and technical requirements in preparation for a competitive tender process for the replacement system.



Tonderai (third from left) pictured with Paul Jowitt, ICE President, (centre) and the other apprentices.

## The Apprentice: "You're hired!"

Tonderai Chakanyuka has become the first Grontmij employee to be selected as an ICE president's apprentice. The programme allows participants to shadow the president during his term in office and gain experience of the presidential role together with an understanding of how the institution works. In addition, the apprentices are working with industry experts to develop a project delivery toolkit for international development infrastructure projects.

The scheme has so far seen Tonderai take part in various workshops, including one in South Africa, to discuss topics such as urbanisation and infrastructure needs in the developing world, climate change, sustainability assessment,

procurement of capital projects and programmes, anti-corruption and development financing.

Tonderai commented, "The Durban workshop gave me a better understanding of the relationship between sustainable development and poverty reduction and the role infrastructure delivery for capital projects can play in addressing socio-economic issues while achieving developmental outcomes."

The apprentices will assemble in Paris in May, for the last workshop that will finalise the toolkit.

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