Waterman Celebrates 60 Years of Innovation

In 2012 we are celebrating 60 years of innovation as a leading international consultancy.

Refurbishments

Waterman has historically been involved in some of the most interesting major refurbishment works in London.

Restoring Ecosystem Services

Although not by any means a new concept, green roofs are becoming an increasingly popular trend in sustainable building design.

Elizabeth House

Our Energy, Environment & Design team undertake the Environmental Impact Assessment for the proposed £600 million investment on London’s Waterloo.
I trust that you have all had an enjoyable summer watching the Olympics and the Queen’s Jubilee.

We have also been celebrating our 60th Anniversary and reminiscing on how Waterman has developed as a consultant over the years and the loyalty of our clients and employees during this exciting period.

In this issue of Waterman Times, we have included articles to show the diversity of our work outside our core property markets.

Waterman has experienced success in winning many local authority frameworks to provide engineering and environmental advice. We provide consultancy advice to the renewable and traditional power markets and we have been involved in supporting over two hundred individual planning applications for rural wind turbines.

We continue to win accolades for our design excellence and these include GREEN GOOD DESIGN™, Building Magazine Project of the Year and a Structural Steel Design commendation.

I do hope that you enjoy the variety of the articles in the Autumn issue of Waterman Times.

Nick Taylor, Chief Executive
Waterman extend their appointment on LYTAG

UK: Waterman are delighted to have extended their lead consultant appointment to cover detailed civil designs on the new £12m lightweight aggregate (LYTAG) processing facility at Drax Power Station, North Yorkshire.

The new 43,000m² facility will process ash from the power station to produce a range of lightweight building products. It will be a flagship project for LYTAG as the first facility of its kind to be constructed in the UK in over 30 years.

The proposed development will bring a number of significant environmental and economic benefits to North Yorkshire and the UK. By manufacturing LYTAG lightweight aggregate (LWA) from Pulverised Fuel Ash (PFA), the new plant can be used to produce useful materials as opposed to landfill, with the diversion of around 300,000 tonnes per annum. Furthermore, the proposed facility could displace the need for 400,000 tonnes of aggregate per year, which would normally require quarrying an area of 130m² by 15m deep.

Contact: Joe Morris, Director, Waste and Sustainable Energy
joseph.morris@watermangroup.com

Neo Bankside awarded commendation at SSD Awards

UK: NEO Bankside was recently awarded a commendation at the Structural Steel Design Awards 2012.

The prestigious award ceremony, held at the Museum of London, celebrates the excellence of structural and architectural design attainable in the use of steel and its potential in terms of efficiency, cost effectiveness, aesthetics, sustainability and innovation.

NEO Bankside is a striking residential development on a 1.5 acre site located next to the iconic Tate Modern Gallery on the banks of the River Thames. The award-winning project, a joint venture between Native Land and Grosvenor and designed by Rogers Stirk Harbour + Partners, is one of the most sought after addresses in London. The 217 apartment development comprises four separate pavilions providing new public routes from Southwark to the riverfront. The pavilions themselves are characterised by an elegant structural steel bracing system designed by Waterman’s Structures team. The bold and repeating diagonal pattern of external steel bracing used on all four buildings performs a crucial structural role to help unify the site.

The judging panel commented: “This project is outstanding in its rigour and attention to detail, intelligently conceived, designed and beautifully built. It is clear that the whole team was immersed in every aspect. The prominent elliptical external structural bracing has a refined architectural quality. The elegant stair/lift cores are a delight. Impressively quality achieved on a design and build project.”

The renowned development has transformed the unique South Bank site into a vibrant community with shops, restaurants and public spaces.

Marcello Marinoni, Regional Director of Waterman Structures explained: “This project has been ‘a first’ in nearly every way. The apartment pavilions are hybrid structures combining traditional concrete frames with external steel bracing for stability; the bracing also supports the promontory winter gardens. It’s a very unusual approach and I’m not aware of this being adopted on any other residential building.”

Board Director, Steve Fuller added: “It’s been a challenging, exciting and extremely satisfying project. We’re all very proud to be involved in a project that is winning a reputation as an iconic development.”

Contact: Steve Fuller, Board Director
steve.fuller@watermangroup.com

Barry Dobbins appointed as a Fellow of the Institution of Structural Engineers

UK: Barry Dobbins, Director of our London & S.E. region was recently invited to become a Fellow of the Institution of Structural Engineers; an accolade which is considered the ultimate level of professional attainment.

Barry has worked as a chartered structural engineer for 18 years, of which 15 have been with Waterman. His recent appointment as a Fellow recognises excellence in structural engineering achievement and a significant contribution to the profession.

In addition to working on a spectrum of award winning developments, Barry sits on numerous committees such as IStructE’s fire engineering and Construction Excellence.

Barry is also a reviewer for prospective Chartership candidates and recently initiated Waterman’s involvement in ‘Constructionarium’ which is an annual University workplace initiative set up to give undergraduates from London and Loughborough Universities a hands on experience of real construction.

Contact: Barry Dobbins, Director of our London & S.E. region
barry.dobbins@watermangroup.com

Sydney office gets Level 3 Accreditation in NSW

Australia: Our Sydney office has recently received accreditation from the New South Wales Government (Resources & Energy Division) and is now a Level 3 Accredited Service Provider to undertake contestable underground and overhead (as well as substations, etc) electrical designs for the three supply authorities in New South Wales being Ausgrid, Endeavour Energy and Essential Energy.

John North, Chairman of Waterman Sydney is the registered person within the Sydney office with the relevant qualifications and experience in this field and will take the lead in supervising and authorising such designs carried out by Waterman Sydney personnel.

Contact: John North, Chairman
john.north@watermangroup.com

Contact: Steve Fuller, Board Director
steve.fuller@watermangroup.com
**Government’s Environmental and Sustainability Advice Framework**

**UK:** Waterman has been successfully appointed on the Government’s Environmental and Sustainability Advice Framework, a pan-government collaborative framework agreement for use by UK public sector bodies including, but not limited to, Central Government Departments and their Agencies, non-departmental public bodies, NHS bodies and local authorities. Waterman was one of six suppliers, from an initial sixteen, successfully appointed on the Noise and Statutory Nuisance Lot which covers noise and noise impact assessments, modelling, design and specification of abatement measures, analysis of modelling and noise mapping, together with cost benefit analysis.

Andrew Ferguson, Director, Waterman Energy, Environment & Design commented: “The Environmental and Sustainability Advice Framework provides a fantastic opportunity for our acoustics team and will facilitate expansion of our client base into new government departments and local authorities. Appointment onto the Framework is testament to the acoustic team’s project portfolio and technical ability.”

Contact: Andrew Ferguson, Director andrew.ferguson@watermangroup.com

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**AirW1 wins Building Magazine Project of the Year**

**UK:** The Crown Estate’s new flagship office space, AirW1, has won the Building Magazine Project of the Year award at the 2012 Building Awards.

The prestigious award ceremony, held on 18 April 2012 at the Grosvenor House Hotel, Park Lane, celebrated the very best of British design and construction, in front of over 1,300 industry delegates.

Our winning project saw off strong competition from seven other outstanding projects, including Britain’s second tallest building, Heron Tower, and Rottetschild’s new London headquarters, New Court.

David Shaw, Head of Regent Street Portfolio, praised the work of the design and construction teams: “AirW1 has truly set the benchmark for sustainable urban regeneration of historically important buildings. It was completed four months ahead of the schedule and significantly under budget thanks to the dedicated work of our development and construction teams.”

Contact: David Fung, Director david.fung@watermangroup.com

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**Waterman appointed to the Dunbeg Corridor Master Plan**

**UK:** Waterman are delighted to announce they have been appointed to provide Civil and Structural Consultancy Services for the Dunbeg Corridor Master Plan near Oban.

The Dunbeg Corridor Master Plan includes 850 affordable and private dwellings and approximately 7Ha of commercial services, environmental, transport and civils.

Douglas Mobb, Engineering Manager, in our Inverness office will be managing the project. He commented: “Waterman’s skills and reputation were instrumental in securing this project, and we look forward to the opportunity to deliver a successful development.”

Contact: Douglas Mobb, Engineering Manager douglas.mobb@watermangroup.com

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**New Staff Appointment**

**UK:** Waterman are very pleased to announce the recent appointment of Christine Williams as Business Development Manager for the North West area.

Christine joins us from a similar role in the construction industry; she has over 20 years’ experience, working for a variety of blue chip companies including Granada Television, Network Rail, The Co-operative Group and Morgan Sindall.

The Business Development Manager role will be of major benefit in growing our business in the regions and will cover all disciplines including structural, building services, environmental, transport and civils.

From a currently strong workload in markets such as healthcare, education, commercial and retail, we are certain Christine’s appointment will help our overall plan to be the pre-eminent consultant in the area.

Contact: Christine Williams, Business Development Manager christine.williams@watermangroup.com

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**Russia:** Waterman has recently been appointed as lead consultant for a major mixed-use development in Rostov-on-Don, Russia, located on the east side of the Black Sea. The city centre site will include a 188 key, 23 storeys Hyatt Regency hotel and a retail mall with a Gross Building Area (GBA) of 62,000m².

Waterman is responsible for a range of multi-disciplinary engineering services (civil, structural and MEP) with architectural services being provided by a sub-consultant.

Our design teams in London will be working together with our teams in Moscow to deliver a series of specialist services.

The concept design has recently been finalised and the project stage is due to commence shortly with scheduled completion due in 2014.

Contact: Hugh Docherty, Director hugh.docherty@watermangroup.com

James Roberts, Director james.roberts@watermangroup.com

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**Waters**

**Australia**

"Waterman continues to grow its presence in the Australian market with the appointment of Andrew Ferguson as Director, Waterman Energy, Environment & Design.

Andrew’s appointment is testament to the ongoing success of our Australian business and the continued expansion of our services in the region. He will be based in our Sydney office and will lead our water and energy team.

Andrew has over 15 years’ experience in the water and energy sectors, working on a wide range of projects across Australia and the UK.

Contact: Andrew Ferguson, Director andrew.ferguson@watermangroup.com

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**AJ100 Awards**

**UK:** Waterman are proud to have sponsored the AJ100 awards, 2012; the annual survey of the UK’s largest architect practices.

The AJ100 awards and dinner, organised by The Architects’ Journal magazine, took place on Wednesday 16th May at the Grange Hotel St Paul’s, London, to celebrate the achievements of the most successful architecture practices in the UK.

Waterman’s Craig Benestford proudly presented the ‘Client of the Year’ award to The Olympic Delivery Authority, who were successfully nominated by the AJ100 practices as the architectural client that has made the greatest contribution to UK architecture over the past year.

In presenting the award Craig commented on the vast amount of talent in the audience and how each business appreciates the support of many clients and this year’s winner had made their own special contribution.

Other clients shortlisted for the prestigious award were: Argent, Crossrail, Derwent London, Dundee City Council, Land Securities, Ron Dennis, Mclaren, Network Rail, Olympic Delivery Authority, The Co-operative Group and The Crown Estate.

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Contact: Christine Williams, Business Development Manager christine.williams@watermangroup.com

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Contact: Douglas Mobb, Engineering Manager douglas.mobb@watermangroup.com
**Tapestry Building, New Street EC2**

Tapestry Building is an 18th century warehouse, originally built by the East India Company, and now converted into 14 exclusive urban apartments for Westin Management. Located on New Street opposite Liverpool Street station, Tapestry Building offers heritage in the heart of the City, combining its striking industrial architecture with the high specification requirements of modern city living.

Built in 1771, Tapestry Building was the first of the Cutler Street warehouses to be constructed. Known in those days as the Old Bengal Warehouse, it was first used to store exotic imports from India and the Orient. The imposing façade of the building remains as impressive today as it was over 200 years ago, now concealing some of the most desired residential apartments the City has to offer.

The building was originally constructed for functionality, practically and longevity. With its high walls of Georgian brickwork, regularly punctuated by a multitude of stark paneled windows and industrial period features, Tapestry Building retains its original sense of purpose as a working structure. Exposed timber beams and cast iron columns bring character and heritage to each apartment for an authentic interior style that is impossible to equal with contemporary accommodation.

Waterman carried out intricate renovation and refurbishment works to transform the warehouse into the high-end luxury apartments. Works included beam strengthening, installation of ties for robustness and the insertion of mezzanines, lifts and staircases to satisfy modern access requirements. In addition, foundations were enhanced using mini-piles to control settlement under the new loading criteria.

Project Director, John Towers commented: “The existing building threw up a few technical challenges as the scheduled investigations and exposure of the building commenced. These were all overcome by our skilled and dedicated team who are proud to be associated with such an impressive transformation with a lot of our new details, and other historic ones, left visible in the completed apartment.”

**Refurbishments**

Waterman has historically been involved in some of the most interesting major refurbishment works in London. This article features three refurbishment projects of a smaller, more intricate scale. Two of them, for the client Urban Hotel Group, are located in St John’s Square in Clerkenwell, notably the Zetter Warehouse and the Zetter Townhouse, and the third one on the northern fringe of the City of London in New Street, the Tapestry Building, for Westin Management.

As the funding in the construction industry tries to establish its position, the potential costs and programme advantages of refurbishments are becoming more attractive. Factors like statutory listing and the presence of features that add character and value need to be considered, as well as whether a change of use might be more beneficial in optimising the asset value of the site for its long term future.

In an ever changing market, a minor refurbishment may be a stop gap for a short period of a few years, prior to a perceived upturn, with more substantial works justified for a longer term requirement.

Waterman has demonstrated that with a careful and disciplined approach to investigations and reuse of existing features improved value can be achieved to both create and enhance the clients’ expectations no matter how small or prestigious the project may be.

Zetter Warehouse and Zetter Townhouse

Successively, the Zetter branched out with the transformation of two townhouses across the cobbles of St John’s Square, which accommodates a 13 bedroom Georgian hostelry and cocktail lounge.

The Zetter Townhouse boasts two spectacular suites, 11 bedrooms, a games room and private dining rooms catered by Bruno Loubet (whose bistro sits across the street in the Zetter Warehouse). Each room is completely unique, featuring bold shades of heritage colours and eclectic antique pieces and was awarded London Hotel of the year 2012 by The Good Hotel Guide as well as World’s Best new Bar.

Project Director, John Towers commented: “Waterman’s input into the schemes has been acknowledged and praised by our client and has brought with it a strong feeling of satisfaction and achievement with a unique and rather eccentric end result, but with almost all of the structural solutions hidden from view.”

Contact: John Towers, Director john.towers@watermangroup.com

The Zetter is the creation of the Urban Hotel Group, who purchased an old Victorian warehouse building in the heart of Clerkenwell, the former home of Zetter Pools, embarking upon a substantial renovation project with a change of use to a hotel.

Waterman was commissioned to convert the 5 storey old Victorian warehouse into a 6 storey, 59 room boutique hotel and restaurant. The building was subject to extensive external and internal alterations in order to introduce a new atrium and to satisfy the requirements of the change of use. Moreover, the historic structure did not meet current disproportionate collapse requirements and bespoke details were conceived by Waterman in order to bring the building up to modern standards. The integration of these features has worked well amongst the unique internal materials.

Praised by the national press, The Zetter, upon opening won the Architectural Award for Best New Hotel, the European Innovation Award at the European Hotel Design Awards and was also voted one of the world’s 50 coolest hotels.

The Zetter branched out with the transformation of two townhouses across the cobbles of St John’s Square, which accommodates a 13 bedroom Georgian hostelry and cocktail lounge.

watermangroup.com
Wind Energy

Waterman contributes to the Expansion of Wind Energy in Scotland

Scotland is aiming to become the hub of renewable energy generation within the UK. Building on Waterman’s long experience in power and energy, our team in Scotland is aiming to become the hub of renewable energy generation within the region. Wind Energy in Scotland

The team’s expertise was recognised by Intelligent Land Investments (ILI), a company aiming to invest in a large number of wind turbines located on sites throughout Scotland. ILI identifies areas that are suitable for wind energy generation and then works with the landowners to provide a long term income for them, whilst creating a significant source of renewable energy.

In June 2011, ILI commissioned Waterman to prepare technical assessment reports and submit planning applications for 90 wind turbine locations. The agreed programme required 15 applications per month to be submitted over a 6 month period to December 2011. After the first two months, the client was so impressed with the quality of the reports and the efficiency of the team, that a second team was added to double the output to 30 applications a month. By June 2012, 190 applications had been submitted with further applications still in the pipeline.

In addition to the normal engineering requirements, the team provides a report that addresses all the issues that the planners require when considering an application for a wind turbine. These include geology and hydrogeology, hydrology, forestry, archaeology, visual impact, noise sensitive receptors, construction access, radar and telecommunication impact, cumulative impact, regional and local plan constraints, wind resource assessment and indicative yield analysis, electrical grid connection assessment, health and safety, maintenance and decommissioning.

Prior to preparing the planning report, a feasibility report identifies the key site specific constraints and then optimises the location of the turbine to minimise impact and if possible remove likely planning objections. Despite the large number of sites being processed, very few have the same particular constraints and so the mitigation varies considerably. Our approach is therefore to treat each application individually so as to protect ILI investment and meet ILI’s objective to derive a return for the landowner.

Mark Wilson, Managing Director of ILI, says: “Waterman provides an in depth capability in all areas of wind farm and hydroelectric project development. They understand the commercial and financial risks and have developed a partnering approach that has allowed the relationship to flourish.”

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Mark Wilson, Managing Director of ILI

Contact: Stuart Burke, Regional Director stuart.burke@waterman-group.com

Framework for Success in the Public Sector

Waterman’s workload in the public sector continues to develop with the successful appointment on a number of major frameworks.

Waterman has recently been appointed on the YORConsult Framework, delivering civil and structural engineering and landscape planning services to local authorities in the Yorkshire Region. Waterman was successfully commissioned on 3 lots in the South & West Yorkshire sub region which comprises Barnsley Metropolitan Borough Council, Calderdale Metropolitan Borough Council, City of Wakefield Metropolitan District Council, City of Bradford Metropolitan District Council, Doncaster Metropolitan Borough Council, Kirklees Metropolitan District Council, Leeds City Council, Rotherham Metropolitan Borough Council and Sheffield City Council.

In addition we have also been appointed for structural engineering in the North and East sub region which covers City of York Council, Craven District Council, East Riding of Yorkshire Council, Harrogate District Council, Harrogate Borough Council, Holbeach City Council, North East Lincolnshire Council, North Lincolnshire Council, North York Moors National Park Authority, North Yorkshire County Council, Richmondshire District Council, Ryedale District Council, Scarborough Borough Council and Selby District Council.

The YORConsult Framework is worth up to £200m and is one of the YOR deals developed by local authorities to reduce expenditure by procurement collaboration in Yorkshire and the Humber. Other public sector bodies in the Yorkshire region will also be able to engage consultants via the YORConsult Framework.

Waterman is also delighted to have been appointed by Craywale Borough Council to provide a range of consultancy services under a series of partnership agreements. The appointments are initial for three years with the potential of a 2 year extension and cover the following services: civil engineering, flood alleviation and drainage services and building control/building regulation checks.

Waterman has held partnership contracts with Craywale since 2005 for civil engineering and flood alleviation and drainage services. The appointments with Craywale and YORConsult follow on from other recent successes including the Success Consortium Framework Agreement for Planning Consultancy Services and the new Partnering Term Contract with the London Borough of Bexley. The appointment with Bexley follows on the back of three successful five year term contracts with the Borough, dating back to 1996.

Les Darrall, Waterman’s Director for local authority consultancy frameworks commented: “Waterman’s commitment to the public sector remains as strong as ever and our recent successful appointments are testament to the dedication of our staff and our core values of working in partnership with our clients to achieve successful and sustainable outcomes.”

Waterman Aspen have also had a number of recent successes in securing places on local authority frameworks. Our Seconderment & Outsourcing division have been selected by Hampshire County Council onto a framework agreement of suppliers to provide temporary resources in the fields of highway engineering and property services, climate change and energy, waste management, landscape and heritage, planning and transportation.

We have also been successful in securing a place on Lot 2 of the Kent County Council Framework Agreement of temporary worker agencies for preferred supplier listing.

Contact: Les Darrall, Director les.darrall@waterman-group.com
In April 2012, following extensive public consultation, a planning application was submitted by the Elizabeth House Limited Partnership to dramatically transform the Waterloo district of Central London. The proposed Elizabeth House development will be the largest mixed-use investment in Waterloo in 40 years and will deliver approximately 6,100 new jobs on the site, and 142 new homes, bringing an additional £11.8 million of inward investment to the area each year. Additionally, the equivalent of around 460 permanent full time jobs would be generated during construction.

The proposed £600 million scheme will see the creation of a new business district for London and a dramatic new public space in front of Waterloo Station. A 16-storey office block known as Elizabeth House currently sits between Waterloo; London’s busiest mainline station and Europe’s largest cultural quarter at the South Bank. The existing block butts hard against the historic Victory Arch entrance to Waterloo Station, effectively blocking off the possibility of improving access to the station itself, and to routes between the station and the South Bank.

The development proposals take the form of two new buildings separated by a large public space, forming part of 10,000 square metres of new public realm running the length of the site. The buildings (known as the ‘North’ and ‘South’ buildings) will be 29 storeys and 10 storeys tall respectively and have been designed by former Stirling Prize winner and Royal Gold Medal recipient Sir David Chipperfield. They will collectively provide over 52,000m² of new office space, 1,500m² of small shops and cafes, 142 new homes and a glass-fronted gallery space on the ground floor of the North building.

With a development of this scale, understanding potential environmental impacts is essential. To this end, Waterman EED were commissioned to coordinate and undertake an Environmental Impact Assessment (EIA), drawing upon our wealth of experience and expertise to liaise with the local authority on the necessary scope of the assessment as well as provide expert advice on the challenging areas of Air Quality, Noise and Vibration, Archaeology and Flood Risk, amongst others.

Environmental challenges faced by the project included:
• The site’s location within an Archaeology Priority Zone and Air Quality Management Area;
• The potential for contamination and unexploded ordnance (bombs) beneath the site;
• The risk of flooding from the River Thames;
• The potential for noise and vibration nuisance associated with demolition and construction works;
• Potential adverse effects to local wind conditions;
• Transportation and access issues;
• Potential changes to the availability of sunlight and daylight at the site;
• Potential effects on the surrounding townscape and built heritage; and
• The potential for dust creation in this very busy part of Central London.

Contact: Kirsty Rimondi, Associate Director
kirsty.rimondi@watermangroup.com

Working closely with the Elizabeth House Partnership and other members of the Project Team, Waterman EED successfully completed the comprehensive EIA that focused on the key challenges faced by the development. The EIA process identified appropriate measures and solutions where necessary to prevent, reduce or offset any potential negative environmental effects identified, giving the proposed development the best possible chance of achieving planning permission. Lambeth Council are currently considering the proposals. Should planning permission be granted it is anticipated that work will commence in 2013 with completion scheduled for 2016.

Our Energy, Environment & Design (EED) team undertake the Environmental Impact Assessment for the proposed £600 million investment on London’s Waterloo.
The Crown Estate

Development proposals within their two central London portfolios of Regent Street and St James’s.

Proposals were recently launched by The Crown Estate for the redevelopment of three sites in their St James’s Portfolio, to deliver nearly 28,000 m² (300,000 ft²) of mixed use accommodation.

The lead scheme, known as St James’s Market, is a commercial redevelopment of two blocks to create 200,000 ft² of office and 45,000 ft² of retail, restaurant and leisure accommodation, located between Haymarket and Regent Street. World-class 21st century architecture and preserved historic façades, together with a transformational public realm improvement, will bring the area back into line with the quality of historic St James’s.

Waterman have been appointed as structural engineers to two of the buildings facing the boundary to the square, the Haymarket Block and Regent Street Block, both buildings are eight stories above ground level with single story basements. Retail will be provided at basement and ground floors with office space over.

The St James Market project will be the largest development for The Crown Estate in their St James’s portfolio.

**ST JAMES’S MARKET**

**QUADRANT 4**

Quadrant 4 is located east of Quadrant 3 on Sherwood Street and was the former Annex for the Regent Palace Hotel, serving as staff accommodation when the hotel was originally built. The proposed refurbishment of this building will see the conversion of the existing back packers’ hotel into residential apartments; a mixture of one, two and three bedrooms with 10 containing duplex units. Third Space Gym operations will be maintained at ground floor.

Waterman have recently completed the feasibility studies and assisted in the finalisation of the agreement with existing tenants. Planning application is due to be submitted in late 2012.

The services for the apartments are being provided from Quadrant 3 CHP units, the largest and most efficient fuel cell in Europe. The development will target Level 4 Code for Sustainable homes.

The project is due to commence on site in Spring 2013 with anticipated completion in Summer 2015.

**ALBANY HOUSE**

The upper levels of Albany House are being converted into 18 high quality one and two bedroom apartments. The existing building consists of two separate buildings, one dating from 1908 and the other 1930’s. The roof to the 1938 building is being removed and a new single storey extension will be provided in steel and timber construction to avoid increasing loadings.

**OGLE STREET**

Waterman provided structural engineering services on the new build block of social housing at Ogle Street. The building is replacing a Nurses training block associated with the Middlesex Hospital and will have a new concrete frame whilst reusing a large part of the existing foundations. Works on site have progressed, demolition is complete and the new frame is under construction.

**TRAFALGAR HOUSE**

Also, as part of The Crown Estate’s wider investment in St James’s, they acquired the headlease of Trafalgar House at 11/12 Waterloo Place. A £5 million refurbishment is underway on the Grade II listed building which will provide an improved ground floor entrance and improved lobby at 5th floor. The new entrance lobby involves careful sequencing and temporary works to allow removal of a loadbearing wall and insertion of a beam. Completion is anticipated in Winter 2012 and an agreement for lease has already been concluded with Villandry, the restaurant operator, to take occupation of the ground floor and basement.

**80-82 MORTIMER STREET**

The existing buildings of 89-82 Mortimer Street were constructed in the late 1800’s. Number 82 is Grade II listed and has a decorative figureine on its front façade, originally designed for a doctor as his surgery and home. The ground and basements of both buildings were occupied by retail units with the upper floors in use as offices. The existing structure is loadbearing masonry with timber floors and roofs. Extensive timber surveys have been conducted to determin the extent of floor replacement required to allow the conversion of the existing offices into 4, one bed and 2, two bed apartments. Sirak are the main contractor for both buildings and works have commenced on site with completion due in July 2013.

As part of Waterman’s involvement with The Crown Estate framework, design work is being undertaken on Albany House, Ogle Street and 80-82 Mortimer Street which will provide residential accommodation in connection with the Regent Street and St James’s area redevelopment plan. Alongside Blocks W4 and W5 (South) the 3 residential projects will provide 46 new homes within the Westminster community, 22 of which will be high quality affordable family homes.

Contact: David Fung, Director
david.fung@watermangroup.com
In 2012 we are celebrating 60 years of innovation as a leading international consultancy.

Founded in 1952 and listed on the London Stock Exchange since 1988, Waterman has grown into a leading international consultancy with offices throughout the UK, Europe, CIS, Middle East, Australia, China and India.

As a successful multi-disciplinary organisation, Waterman has matured over the last 60 years, combining the principles of innovative and intelligent design with advanced modelling technology to resolve increasingly complex planning and design issues that the industry faces today. Our services have diversified over decades of organic growth and acquisition and at present we offer over 150 specialist services across all main market sectors.

The company’s expertise is diverse and built upon 60 years of experience in engineering excellence, covering an award winning portfolio of projects of varying sizes and complexity.

The schemes and the working practices of our engineers and consultants have helped to pioneer, have taken Waterman from very small beginnings on London’s fringe to an internationally established multi-disciplinary group.

Waterman Celebrates 60 Years of Innovation

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Waterman Milestones

1952 - The Beginnings
Waterman founded by Harold Waterman as a structural consultancy in London

1987
Waterman was one of the first engineers to purchase AutoCAD and drawings start to be produced on computers.

1991
One Canada Square: For many years the tallest building in the UK.

1999
Bluewater: Underpinned Waterman’s reputation as the leading retail engineer.

2000
Mostevers: Established Waterman’s position in the high and residential market.

2008
ACE Engineering Excellence Awards (Transportation): Fasttrack Scheme

2009
RIS Development of the Year: NEO Bankside

2012
BCSC Supreme Gold Winner: Liverpool One

2012
RESI Development of the Year: NEO Bankside

2012
Building Magazine Project of the Year: Quadrant 3 (AirW1)

1988
Waterman was one of the first engineers to purchase AutoCAD and drawings start to be produced on computers.

1999
Waterman was the first consultancy to invest in REVIT software, the leading 3D design programme.

2000
Waterman was the first consultancy to invest in REVIT software, the leading 3D design programme.

2012
Waterman has full compliance of BIM Level 2 and are leading the industry in BIM technology.

AWARDS

TECHNOLOGY

ACHIEVEMENTS

© The Crown Estate© Hufton + Crow Image courtesy of Grosvenor
Green roofs present an opportunity to reintroduce some of these benefits they previously existed. Ecosystems provide environmental services such as drainage, cooling, and pollution sequestration. Some of these services are partly replaced through the use of grey infrastructure; however, green infrastructure tends to be single purpose with a short lifespan and historically fails to replace ecosystem services lost during urbanisation. Green roofs present an opportunity to reintroduce some of these ecosystem services across urban areas on what is otherwise dilapidated roof space. Should you consider grey infrastructure?

Restoring Ecosystem Services...One Roof at a Time

The Urban Heat Island Effect
The Urban Heat Island Effect (UHIE) refers to the relative increase in temperature of urban areas compared to the surrounding rural areas. UHIE can be linked in many ways to the removal of ecosystem services from urban areas. Increased heat storage in building materials; decreased albedo; and lack of evaporative cooling. Green roofs and walls increase the albedo of the building envelope, meaning that heat is reflected from buildings rather than being stored in their fabric. Through evapotranspiration, green roofs also provide cooling to both the inside of the building as well as localised microclimate cooling.

Climate Change Adaptation Research
Waterman has recently received funding from the Technology Strategy Board (TSB) to develop a climate adaptation strategy for an office, civic building in the midlands. As part of this study, Waterman are modelling the effects of various green roofing strategies on the microclimate surrounding the building using the software ENVI-met. Through cooling the microclimate surrounding the development as well as the inside of the building, the installation of green roofs will help the building adapt to increased temperatures associated with climate change. This model will help advice on the green roof design to ensure that environmental benefits to the project are maximised.

Green Roofs
There are two types of green roofs, extensive (shallow substrates, light weight, often planted with sedum) and intensive (deeper substrates, diverse/ elaborate planting). Both types of green roofs have been shown to provide a variety of ecosystem services, and thus environmental benefits. The environmental benefits tend to be greater for intensive than extensive green roofs.

Storm Water
With the increasing severity of rainfall events associated with climate change, there is going to be increased strain put on already stretched drainage systems in urban areas. In nature, rainfall is absorbed into the ground and travels through the soil, preventing build-up of surface water. However, through the prevalence of impermeable surfaces, water travels over the ground at an increased rate; collecting pollutants as it goes and often causing localised flooding as a result of blocked drains or simply because the drainage system just can't cope with the volume of water. With climate change, the frequency and intensity of severe rainfall events are predicted to increase in the future, meaning that flood events are also likely to increase in the future.

Green roofs have been shown to decrease localised flooding events. They act in a similar way to natural ecosystems, storing storm water in the soil beneath the vegetation. This water is then released slowly over time through drainage and evaporation.

Further information on Waterman’s sustainability, green infrastructure, sustainable drainage, carbon and climate change services can be found at: http://www.watermangroup.com/about_us/sustainability

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Technology Department Grows in Australia

Waterman's Sydney office has increased its involvement in the Australian national broadband network (NBN) roll-out. The field survey and design of fibre optic communications cabling has been a positive learning activity for the group and has lead to the delivery of the first entire fibre servicing area module (area serving approximately 3,000 premises) in June 2012.

Waterman is contracted to deliver the aerial and underground design of fibre optic communications cabling and associated support plant to form the basis of a network infrastructure suitable for further extension to the premises under a separate contract.

Waterman has a direct commission with the main design and construction contractor in New South Wales and Queensland.

Further to the above, the technology sections in Sydney and Melbourne are continuing to design services upgrades for existing telephone exchanges and provide support during the construction phases. These upgrades are under a separate contract with Australia's largest telecommunications provider to enable the growth of the exchanges to support the IT infrastructure resulting from the NBN optical fibre contract.

Waterman is one of three consultancies on a design panel.

To facilitate the business growth in this sector, we have increased our responses in electrical and communications design staff. We have also instigated a program to work with local and regional third and fourth year university students in the relevant areas of study, for field based training and survey works.

Further technology design contracts with other main Australian telecommunications providers, international banking organisations and other business critical facility managers (enterprise and co-location clients) are also tracking well in the region. These include building services, ICT and structural design contracts.

Ben North, Director of the Technology Group in Australia comments: “We are very well placed in the market, our team is delivering on time and we are confident we have the expertise and experience to continue to deliver a quality service, on time. I truly believe we are at the forefront of this technology and making a strong reputation for ourselves in this industry sector. I am sure we can continue to succeed and achieve our short and long term goals of business growth.”

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Waterman has a dedicated Health & Safety division with a team of highly skilled professionals with extensive practical experience in providing CDM Coordinator services, since the inception of the regulations in 1994.

40 Projects & Counting...
University of Plymouth

In January 2008, our Health & Safety division were appointed as the Framework CDM Coordinators for the Plymouth University estate. Since then, we have undertaken 43 projects in total, including new-build, refurbishment and major demolition, ranging up to £12m in construction value.

The facilities have included teaching space, research laboratories, campus landscaping and a students’ union. Several projects have also incorporated major refurbishment or replacement of building services.

The most significant project our Health & Safety division have been involved with is the new Marine Building, which achieved practical completion in June 2012. The development incorporates several wave tanks, the largest of which is 35m x 15m x 4m deep, which will enable the University to be at the forefront of research in marine and coastal processes.

The University has very high expectations for sustainability and the achievement of BREEAM Excellent is mandatory on projects, where feasible. To date this challenging aspiration has been achieved.

Safety in Solar

Our Health & Safety division are employed by Solarcentury, as the CDM Coordinator for their Solar Power Generation Farm schemes in Devon, Cornwall and Cambridgeshire.

The works on site included: perimeter security, CCTV and fencing, trenching for ducts & cables and foundations for photovoltaic units. All sites have remote performance monitoring systems setup.

The utilisation of solar energy is anticipated to increase exponentially in the future as panel and storage efficiency increases. Solar energy is a key element in the UK Government’s roadmap to achieving their renewable energy targets.

The schemes commenced on site in April 2011. Three sites have been completed to date, a further three are currently underway and there are six more schemes anticipated to commence this year.

Bristol Schools – So far so safe!

Our Health & Safety division are working within a consortium led by Skanska to deliver a 10 year partnership to develop world class educational facilities in the city of Bristol. Since 2007 we have provided CDM Coordinator services on 8 secondary schools, 23 primary schools and 1 dedicated special needs school, many of which have now been completed.

We have worked closely with Bristol City Council, Bristol LEP and end users to ensure health and safety issues have been amalgamated without compromising creative design and educational needs.

Several of the new secondary schools incorporate features designed to create a safer environment for both students and staff. Design features such as floor-to-ceiling windows have been introduced to allow maximum visibility and supervision of the students and in many cases the widths of the corridors have been increased to ensure that large crowds can move around safely. New build schools are exemplar schemes using a ‘kit of parts’ that could be applied across a range of academic and organisational scenarios.

Another key component in the BSF programme is the inclusion of Information Communication and Technology (ICT). An integrated approach to smart cards has provided access control for entry and exit of the school buildings as well as enabling cashless catering where the pupils ‘top-up’ the cards with money to pay for meals.

The effects of these design features have been dramatic. A survey was carried out with a sample of pupils before and after one of the new academies had opened and the number of students that felt safe at school rose from 30% to 87%.

Schools such as Oasis Academy are designed for use by the whole community, with the sports hall, gym and dance studios accessible outside of school hours.

Funding is being sought to continue the programme, particularly in relation to primary schools, where there is a chronic shortage of pupil places. Waterman aim to continue providing an innovative approach to what has been a very successful partnership to date.

Contact: Clive Shepstone, Associate Director clive.shepstone@watermangroup.com
2012 marks twenty years of the production of ‘5-mile diagrams’ (AutoRail™) for the UK rail industry, a product used by Network Rail and many of the leading rail contractors, consultants and other rail groups.

In 1992 Waterman were approached by British Rail to produce a simple plan of the 40 mile railway line between London, Tilbury and Southend. 20 years later, AutoRail™ is still generating significant business for Waterman’s dedicated rail team.

From First Beginnings

By 1992 British Rail had been divided into five financially autonomous business sectors, one of which was Network SouthEast (NSE). This covered the entire London network, Kent, Sussex, Surrey, Hampshire, Isle of Wight and beyond, some 2,350 route miles and 930 stations.

Waterman was appointed by NSE to draft a framework for their rail diagram, which had to show, to scale, the tracks and stations along the route, enabling a programme of track renewals and upgrades.

Producing such a plan was not as simple as anticipated because the legacy of 150 years of railway was that records had become scattered and fragmented.

Setting The Format Of The ‘5-Mile Diagrams’

The Channel Tunnel was due to open in 1994 and in parallel to these works, British Rail had to upgrade the existing railway lines from London Waterloo to the Channel Tunnel. Working alongside the South Central engineers, Waterman set the design format for the ‘5-mile diagrams’ we use today.

Many ask why five route miles to a diagram? In 1993 Waterman issued drawings in paper form and South Central engineers wanted the plans printed such that a mile of track was represented as eight inches on the plan. The railway worked in chains and 80 chains are a mile, therefore one tenth of an inch on the plan represented one chain on the ground. The largest sheet of paper we could use was A0, which resulted in five route miles to a sheet and the term ‘5-mile line diagram’.

Having set the page size and miles per page the next issue was to identify what information to show and how to show it. After substantial research, the answer lay in bookletlets produced by the London & South Western Railway Company in the 1920’s and continued by the Southern Railway in the 1930’s. These booklets were hard backed and of a size suitable to put into the engineers pocket, but they contained scale route diagrams illustrating bridges, tracks, stations, curves, gradients, level crossings, signal boxes and locations where steam locomotives could be turned, watered and coaled.

Consultations then took place between Waterman and a number of British Rail engineers on the content of what is now called the ‘civil (engineering) layer’. There were two key principles: (1) was the data easily obtained and (2) how could we keep the diagrams up to date, as producing a ‘snap shot’ of the railway would be a waste of effort. Aerial photography and video train are great for detail, but there have been situations, where within days of the images being produced, a bridge has been knocked down, signal or switch moved, making the data obsolete. It is not practical to re-shoot the film all but on say an annual basis, but it is easy to update a ‘5-mile’ plan.

Having set the format and content, the next action for Waterman was to collect and collate the information and this is when the difficulties started to appear. We began to find that a mile on the railway was not always 1,760 yards and that although a mile should be divided into four equal quarters, the last quarter was often short, which makes production of scale CAD plans a little difficult. When adding the overhead line detail to the main line out of London Euston Station we could not get the details to agree with the databases for the other assets. The problem was resolved when we discovered that zero miles at London Euston Station was in two locations; at the existing buffer stops for the overhead line information and for all the other asset data at the original buffer stops removed when the station was rebuilt and concourse enlarged in 1968.

The Railtrack Era

Railtrack was formed in 1994 as part of the railway privatisation and by this time Waterman had extended coverage of ‘5-mile diagrams’ to the entire South Central, Thames & Chiltern and South West sub-sectors of NSE and negotiations were underway for work in East Anglia and SouthEast.

But, ‘5-mile diagrams’ then nearly ceased to exist following a meeting at Railtrack House where we were told that Railtrack had no requirements for the diagrams.

Privatisation of the railways also created various Infrastructure Maintenance Companies (IMC) set up to maintain the railway on behalf of Railtrack and these companies could see great value in the diagrams. The first engineers contacted were those at Balfour Beatty, who had been successful in being awarded contracts covering South Zone, East Anglia Zone and LNE Zone and commissions for ‘5-mile diagrams’ were secured.

The expansion of ‘5-mile diagrams’ up to Railtrack’s demise in 2002 was swift, with the IMC’s, AMEC, GTRM, Carillion and Jarvis all commissioning us to prepare diagrams for their contract areas. The IMC’s were quick to identify further options and overlays and Railtrack Major Projects saw the value of our work, preparing diagrams for the Heathrow Express Project, West Coast Main Line upgrade project and Cross Country upgrade project.

Network Rail and the future for AutoRail

Network Rail was formed in October 2002, which initially had little impact on ‘5-mile diagrams’. However, after major internal reviews, additional funds became available and there has been rapid output of the ‘civil layer’ such that by 2007 there was only 1,000 route miles of the UK 10,000 route miles to produce.

2012 sees a further re-organisation of the rail industry and the contract for ‘5-mile diagrams’ moving from Network Rail Engineering Information in Glasgow to the National Rail Asset Information team based in the new HQ at Milton Keynes, which was additionally designed (civil/structural) by Waterman. This year will see further developments with AutoRail.

Contact: Paul Goldsmith, Associate Director paul.goldsmith@watermangroup.com
Castlewood Business Park is a 70 hectare mixed-use development mainly occupied by large industrial and distribution companies. Located minutes from the M1, it sits in a prime location at the heart of the UK, easily accessible by the national motorway network enabling it to be reached by all major midland cities in less than an hour.

Waterman’s Derby office has been involved in the progression of the £150m project for over 10 years and has also provided services on the adjacent Derbyshire Designer Outlet Village site.

More recently, our civil and structural engineers have been designing a new landmark structure that is taking shape on the Castlewood site; the Co-operative’s new state of the art 750,000ft² Midlands Distribution Centre.

The bespoke facility, which contains Vehicle Maintenance Units and a Recycling Centre, replaces two existing centres and offers improvements in efficiency and productivity that will enhance the Cooperative Group’s operation in the East Midlands.

Since detailed planning consent was granted in September 2011 the project has advanced at an extraordinary speed and Waterman have now been novated to the successful Design and build Contractor WinVic Construction for the delivery of the scheme, due for occupation in 2013.

The main warehouse building covers an area of 400,000 ft² and consists of a quadruple span steel portal framed arrangement of 39 bays. Overall the building structure has a width of 126m and length of 316m and incorporates over 1600 tonnes of steelwork.

A major earthworks operation was required to transform the sloping site to create the flat plateau to house the warehouse and the external yards. This necessitated the excavation and filling of in excess of 200,000m³ of material.

The project also includes circa 6.5ha of external concrete yards to accommodate HGV deliveries and parking. In order to drain the yards and the large roof area the storm water drainage systems have included measures to limit runoff flows from the site. Incorporated in the design of the construction of a 9000m³ storm water attenuation facility and a diversion of an existing watercourse crossing the site.

Phil Spiers, Waterman’s Project Manager commented “Waterman has a long history with the Castlewood site and surrounding areas so we are delighted to see its continued development despite the current challenging economic conditions. The new facility will provide a much needed boost for the local area and hopefully attract further development to the site.”

Contact: Phil Spiers, Project Manager phil.spiers@watermangroup.com
Fire safety within the built environment is a critical aspect of building design. By using expert knowledge of legislation combined with the understanding of occupants’ characteristics, our Fire Engineering team are able to achieve architectural aspirations while delivering economical and operational solutions.

The fire engineering division is formed within Waterman’s Building Services operation and offers solutions for innovative and creative architecture to overcome fire safety design complications.

Our specialist fire engineers aim to provide clients with an improved level of fire safety for the benefit of people, property and business. We achieve this by using value-engineered solutions to suit the development brief and objectives. Our underlying approach is to identify the dynamics of a building in order to develop strategies that complement the design.

Waterman’s fire engineering team has been involved in the fire safety design of various developments in the UK and overseas, ranging from large complex retail schemes to smaller scale commercial buildings. Our ultimate objective is to provide efficiency and flexibility to the project design team and ultimate end user, while maintaining a high level of safety and security.

Our range of services includes:
- Fire Strategies;
- Egress analysis (Means of Escape);
- Special hazard fire suppression system design and analysis;
- Fire resistance design;
- Smoke management systems design, analysis testing;
- Design document review services;
- Fire sprinkler system design and analysis;
- Fire detection and alarm system design and analysis;
- Acceptance testing of fire detection and suppression systems;
- Smoke modelling CFD analysis;
- Fire Risk Assessments.

Contact: Richard Baker, Associate Fire Safety Engineer
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Paul McLaughlin, Principal Fire Safety Engineer
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“Our approach to fire engineering is to channel our experience in order to develop solutions that meet the client’s aspirations and deliver a safe building.”

Richard Baker,
Associate Fire Safety Engineer
End to End Bike Ride

Tim Norman from our London office had been planning to do the End to End bike ride for some time, but in late April 2012 a friend of his sadly passed away from cancer.

In her memory, Tim decided he would use the ride as an opportunity to raise money for ‘Cornwall Hospice Care’, for the excellent work they do.

Tim believed riding 900 miles or so from John O’Groats to Lands End in 9 days with the aid of vehicle support was a fairly achievable target. So he challenged himself to ride unaided, with no support, carrying all his kit with him (including accommodation!)

He set out on the 6th June 2012 on a cold, wet windy day and finished nine days later after riding a staggering 939 miles.

Tim commented: “The ride was an amazing experience and raising a final total of £3,150 for such a fantastic charity and in the name of such an amazing person was a massive privilege for me, the only trouble is I have picked up a bit of a touring bug and may be planning more rides in the future . . . .”

Waterman Staff Volunteer as Games Maker

Waterman’s Jason Low volunteered as a games maker at the London Olympics 2012. He commented: “I have recently had the honour of becoming a games maker for the ‘Greatest Show on Earth’. I was part of the Media Transport Bus Team based at Bloomsbury in London. We were tasked with transporting up to 5000 broadcasters, photographers and reporters to the Olympic park venues around London.

The basic role involved checking accreditation, counting people onto the bus and recording the details of the bus. As games maker bus team members we recognised the importance of the impression we set for the world media. We were the first people to greet them in the morning and the last people they saw at the end of the day. In order to improve our service we knew the correct bus for the venue locations and the times of buses, we engaged with the journalists in friendly conversation and gave reassurance if the bus was a little late. As a result an internal conference held by the world media commended our shuttle bus service.

I became a games maker as I had no interest in sports but still wanted to be involved in the Olympics. I was a little apprehensive about the uniform, but following my Olympic experience not only do I have a new found interest in sport (watching sports) and I also have a particularly garish fancy dress costume for life.”

 Brighton Marathon

On Sunday April 17th, Dan Boughen from the Communications team took part in his second Brighton Marathon, raising £1,200 for St Peter and St James’s Hospice in West Sussex, a charity he also volunteers for.

He commented: “I felt a little unwell leading up to the day and after 12 miles my muscles started to cramp up. I needed regular breaks and massages to get going. I only found out a few days later after visiting my GP that I was suffering with pneumonia.”

Dan finished with a time of just over 5hrs and 30mins, “obviously I had trained and hoped for a quicker time, it was just unfortunate to become ill, but I have signed up for next year.”

Waterman Ride for Children’s Charity

Waterman’s Melbourne office was the champion sponsor of this year’s Royal Victorian Eye and Ear Hospital’s (RVEEH) annual bike relay in aid of the RVEEH children’s charity.

The event, held in April, is a 24 hour team endurance ride from the Murray River, at the inland Victorian town of Echuca, to Port Fairy on the Moyne River, a total distance of 529km.

David Worland a Director in the Melbourne office and a keen cyclist represented Waterman in the lead RVEEH team, pedalling a total of 342km in 24 hours, including 7 hours of right riding.

The total money raised by the event for the RVEEH is estimated to exceed $40,000, which will go to the hospital paediatric services facility, supporting underprivileged children attending the hospital for either eye or ear treatment.

Our Melbourne design team, led by Director Philip Barnes, are currently documenting a major $130 million refurbishment of the Eye and Ear Hospital in East Melbourne, due for completion in 2015.

Charity Marathon

Matt Edgar from Waterman EED decided to partake in his first ever marathon in late 2011 and led a gruelling 6 month training regime up until the Brighton Marathon in April, with the help of Nick +.

“I found the first 20 miles of the run great and was enjoying the run, then hit ‘the wall’ and felt like I was going to die. The atmosphere was brilliant and thank you to everyone who was there to support me, it was the main thing that kept me going for the last 6 miles. No injury stories, just painful quads following the run. I completed the run in 3hrs 26mins. My aim was to run under 3 hours 30, so I’m really pleased.”

Matt has risen close to £500 for WaterAid to date, which is Waterman EED’s nominated charity.
relationships and trust over the four year project life cycle, which was on our expertise to ensure that the bridge would open which built strong “I am delighted Lili Philpott, Managing Director of Waterman China, says during construction. conducted reviews of construction drawings and the technical expert role operation of the Tianjin Binhai Bridge which is, to date, the largest Waterman carried out the detail design for the structure and mechanical construction sector. Green GOOD DESIGN identifies and promotes the world’s most important examples of sustainable design, thereby demonstrating to the international community which consultants are achieving high quality sustainable design to enhance the world environment. This award for a Waterman project demonstrates the company’s leading capability in this important arena of building design.

One Angel Lane wins Green GOOD DESIGN Award

The European Centre for Architecture Art Design and Urban Studies and The Chicago Athenaeum: Museum of Architecture and Design are pleased to announce that the Waterman designed development; One Angel Lane has won a 2012 Green GOOD DESIGN™ Award.

Waterman provided structural engineering, building services and environmental consultancy for One Angel Lane. We designed the new building for the developer CORE and Oxford One Investment Ltd and also the fit-out for Nomura.

Our teams worked closely with the architect, Fletcher Priest, to develop a sustainable strategy for the building. Green Roofs were incorporated for rain water attenuation and to support ecology as well as improving the efficiency of the building thermal envelope. The building achieved an excellent BREEAM rating along with good sustainability credentials.

Green GOOD DESIGN identifies and promotes the world’s most important examples of sustainable design, thereby demonstrating to the international community which consultants are achieving high quality sustainable design to enhance the world environment. This award for a Waterman project demonstrates the company’s leading capability in this important arena of building design.

Waterman project wins premier Luban award

Waterman are honoured that the Tianjin Binhai Open Bridge in China received the prestigious construction engineering “Luban Award”, (National High Quality Engineering), which is China’s highest accolade within the construction sector.

Waterman carried out the detail design for the structure and mechanical operation of the Tianjin Binhai Bridge which is, to date, the largest opening bridge in Asia, with an open portion of 68 metres. Waterman also conducted reviews of construction drawings and the technical expert role during construction.

Lili Philpott, Managing Director of Waterman China, says: “I am delighted that this project received the highest award in China. The client relied on our expertise to ensure that the bridge would open which built strong relationships and trust over the four year project life-cycle, which was extremely important for our business in China.”