

J.A. RATTIGAN & SON LTD

SUCTION EXCAVATOR HIRE

Nationwide hire

Free on site consultation

All new equipment



Suction excavation specialists

Where safety comes first



J.A. Rattigan & Son Ltd

Suction excavation specialists

J.A. Rattigan & Son Ltd has been in business since 1988 but its founder, John Rattigan, traded in his own name for ten years previously.

Since the late 1970s, the Company name has provided expertise within the plant hire sector and is a well-known figure within the construction industry.

Its substantial growth is due to an excellent reputation for good, personal, quality and dependable drivers and for the past ten years, the Company has run its groundworks division, working on major projects across the whole of London.

The Company commenced in plant hire with the provision of operated JCB hire to McNicholas Construction Ltd, working on renewals of footpaths for the London Borough of Newham, way back in 1978.

The supply of heavy plant can be on a self-drive or operated basis.

The quality of heavy plant equipment is important to the Company and the constant focus is on investment in new and improved equipment. Currently, the plant fleet is under three years old.

All maintenance and repair of this equipment is dealt with on an in-house basis in the workshop thanks to the expertise of highly experienced fitters.

The average age of the fleet of equipment is estimated to be between 12 to 18 months old and any item of heavy plant supplied can be fitted with any company logo if required.

Equipment includes suction excavators which assure instant operability as well as quick and non-destructive excavation while reducing interference with traffic and minimising the impact on the environment.

The Company is able to reduce its intake size to 100mm to allow the removal of any material from non-accessible areas including conveyor belts, basements, gullies, blocked pipes and drains.

By using flexible tubing and ridged tubing, J.A. Rattigan is able to extract any material including water.

A suction/vacuum excavator is a construction vehicle that removes debris below or above ground, via powerful suction of high volume air flow, through a wide suction pipe that is up to a foot in diameter.



This allows materials to be excavated safely and effectively with low risk.

Suction/vacuum excavation can be used for excavation of contaminated ground, water treatment, materials buried around utilities or services.

A suction excavator avoids invasive groundwork digging and can reduce risk to digging teams and the general public.

It also reduces damage to cables, culverts, tree roots and other environmental areas by needing only a small excavation area.

This also makes suction/vacuum excavation cost effective in comparison to traditional methods of digger excavation because of the reduced risks and the additional plant hire.

Operators are equipped with a vast amount of air tooling tools to assist the movement of materials from buried utilities and pipelines.

The suction/vacuum excavator generates a high volume flow of air by means of its twin or triple air fans. The end of the tube may be toothed to help cut earth when used for excavating but not when used to vacuum up loose debris and litter.

The air flow vacuums the ground material into the vacuum excavator and this is deposited into the main storage vac tank.

Tools including a compressed-air lance or powerful water jet may be used to assist in

breaking the ground free to allow the air flow to catch the material and then remove it into the vacuum excavator.

Tracked excavators provide greater productivity, reliability and economy with new levels of comfort and minimised noise levels inside the large cabs.

The rubber duck excavators have a new and improved performance with increased travel speed and reduced running costs, and the Company's telehandlers equipment has increased versatility of a single telescopic boom that can extend forwards and upwards from the vehicle.

Dumpers and dumper trucks are equipped with a hydraulically operated rear hinge and the JCBs boast supreme efficiency, productivity and safety.

One of Europe's largest operators of suction/vacuum excavators, the Company can operate vehicles from 26 tonnes to 40 tonnes with a vast selection of fan arrangements to suit requirements with different back arms for every application.

J.A. Rattigan has grown substantially from its early days but a key cornerstone of the Company's approach is the high quality, personal service with dependable drivers.

Available all year round, the Company caters for its customers' plant hire requirements.

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Southern Water

AMP6 capital works programme under way

Although it doesn't start until next year, many water companies have already started appointing delivery teams for AMP6 so they can hit the ground running when Ofwat signs off the funding.

October 2013 saw Southern Water submit its financial business plans to Ofwat, and the pre-qualification procedure to appoint delivery partners for the £1.1Bn AMP6 capital works programme is under way.

It comes after water regulator Ofwat published details of its methodology for assessing water companies' business plans for the next AMP, which begins in 2015 and is scheduled to run for five years, but with every possibility of being extended further.

Ofwat's methodology document made it clear that water companies should be focusing on what it called '**long-term outcomes**', which it hopes will encourage innovative ways of working that will deliver services for less money, and with less impact on the environment.

As a result, the regulator expects to see substantial efficiency savings being delivered during the five year AMP6 period.

Each day, Southern Water supplies 529 million litres of drinking water from its 90 water treatment works along 13,735km of water mains to its customers' taps.

Almost 70% of the water is taken from underground sources in the form of aquifers, 23% from rivers and seven per cent from storage reservoirs.

In addition, Southern Water also treats and recycles 730 million litres of wastewater each day at 368 treatment works after it is pumped through a sewer network of 39,000km.

Owned by Greensands Investments Ltd – a consortium made up of pension and infrastructure funds – Southern Water's area of operation in the supply of water and treatment of wastewater covers a total of some 10,530sq km.

It extends from East Kent in the east, through parts of Sussex, to Hampshire and the Isle of Wight in the west.

Southern Water's Business Plan for 2015 to 2020 details how better water and wastewater services will be delivered to 4.5 million people across the south east of England.

The plan, which contains 26 clear promises, is the result of an 18-month programme of research and engagement involving

27,000 customers and representatives from communities across Kent, Sussex, Hampshire and the Isle of Wight.

These promises cover areas such as responsive customer service, a constant supply of high quality drinking water, the removal of wastewater effectively, looking after the environment, providing customers with better information and advice, and making bills affordable.

Southern Water has a whole range of delivery partners for these schemes, including 4D – a joint venture bringing together Veolia Water, Costain and MWH.

Clancy Docwra also works with Southern Water, installing and maintaining wall water and wastewater pipes, and it is recognised for its outstanding clients service.

Thames Water is one of the most advanced of the water companies in its procurement for AMP6, having announced in May the list of firms in its '**super-alliance**'.

Thames Water Asset Director Lawrence Gosden has described the decision to appoint an alliance for AMP6 as a '**complete transformation**' of the way the Company delivers capital investment.

He said: *"The tender process started with extensive consultation with our supply chain to form a delivery strategy with collaboration at its heart, and it ended with us joining forces with some of the leading names in the industry."*

"We have a significant amount of work to do, upgrading our deteriorating infrastructure over the next 25 years and beyond, while keeping customers' bills affordable. If we were to achieve this, a different approach is required."

Thames Water's AMP6 alliance is made up of two design and build consortiums, a programme manager and a technology and innovation provider.

Costain Veolia Water Atkins (CVA) and Skanska MWH Balfour Beatty (SMB) won the design and build bid, MWH is the programme manager and IBM the technology and innovation provider.

SMB is a joint venture between Skanska, MWH Global and Balfour Beatty, selected to provide solutions for the development of the AMP6 scheme for Thames Water.

The contract is worth between £1Bn-£1.5Bn to the joint venture, shared equally between the three companies.

It began in May 2013 with the 23-month Early Contractor Involvement (ECI) phase, in preparation for the start of AMP6 delivery, running from April 2015 to March 2020.

The move reflects Thames Water's decision to confirm its partners two years before the next five-year regulatory period, transforming the way it delivers capital investment.

“We have a significant amount of work to do, upgrading our deteriorating infrastructure over the next 25 years and beyond, while keeping customers’ bills affordable. If we were to achieve this, a different approach is required.”

This will enable a sustained period of collaboration with early involvement of SMB helping define how works are delivered and drive best use of innovation to achieve efficiency gains and reduce costs.

Peter Jones, Alliance Board representative for the joint venture and Skanska's Managing Director, Utilities, said: *“All three of the joint venture partners bring industry-leading experience and best practice to the contract, offering balanced capabilities across the portfolio of work for Thames Water.”*

A water company that works with great interconnectivity with Thames Water is Affinity Water.

Serving a population of 3.5 million in three geographically separated areas in southeast England, Affinity Water is the largest of the water-only companies.

It formed after Veolia sold its three separately managed water businesses to the current owners in June 2012; a month later, a programme to integrate the companies via common IT platforms and business systems began.

The entity was rebranded as Affinity Water in October 2012 and is now viewed as a single comparator by Ofwat.

Affinity Water provides 900 million litres of water each day to people in parts of Bedfordshire, Berkshire, Buckinghamshire, Essex, Hertfordshire, Surrey, the London Boroughs of Harrow and Hillingdon and parts of the London Boroughs of Barnet, Brent, Ealing and Enfield.

Water is also supplied to the Tendering peninsula of Essex and the Folkestone and Dover areas of Kent. Its business plan for 2015-2020 was submitted in December 2013 and sets out the overall strategy and implications for customer bills, strategic objectives in terms of service performance, quality, the environment and other outputs, the activities necessary in the five-year period to deliver these objectives and the scope for improving the efficiency of Affinity Water's service.

The plan will see customer bills decrease by 0.7% per year before inflation, a high quality of drinking water maintained, and the amount of water taken from the environment will be reduced by 42 million litres per day.

Customers told Affinity Water that while they didn't want the level of service to fall in AMP6, but also that they are not willing to pay more for service improvements.

It resulted in the Company proposing a higher level of investment in 2015-20 than in 2010-15, despite the bill cut.

One of Affinity Water's greatest challenges is reducing abstraction from particular sources susceptible to damage, such as chalk-based rivers that suffer during dry periods.

Affinity Water has consented to reduce daily abstraction over AMP6 by 42 megalitres, to be followed by a further 27Ml reduction in AMP7.

The Company's Chief Executive, Richard Bienfait, said: *“42MI compared to the 900MI per day we put into supply – it's a significant chunk, 4-5 per cent of the abstraction we use.*

“So we will have demand rising and supply will be falling. Today we're in balance but in 2016/17 we're not – well that's if we did nothing.”

Indeed, Affinity Water will be active – increasing the supply through interconnectivity with Thames Water, while much of the £505M investment has been earmarked for AMP6 – up from £454M in the current period, which will focus on managing demand.

It will include reducing leakage by 14% - which is up from ten per cent after customer feedback – via renewing 82km of trunk and 482km of distribution mains.

And universal metering will be introduced in four zones, involving the installation of 280,000AMR units backed by extensive customer education and efficiency activity. □





There is a great recognition of the high importance of health and safety, as well as environmental considerations and this is communicated to all staff members through the Company induction.

This document informs current staff and new starters of the company policies and procedures.

All plant operators are regularly inspected to ensure that they hold all relevant documentation required to operate the plant equipment to which they are assigned.

An annual induction takes place to reinforce existing legislation and any new legislation introduced.

J.A. Rattigan is currently exploring the possibility of seeking accreditation under ISO140001 Environmental Management Systems.

This will help J.A. Rattigan to implement, maintain and improve an environmental management system, assure the Company of its conformance with the stated environmental policy, demonstrate conformance, ensure compliance with environmental laws and regulations, seek certification of its environmental management system by an authorised external certification body, and make a self-determination of conformance.

To demonstrate its commitment to the environment, the Company makes sure that its fleet and operations minimise the CO₂ produced by being modern, up to date and regularly maintained.

All rates for heavy plant hire, whether on an operated or self-drive hire basis are carefully calculated in order to provide customers with the keenest rates possible.

J.A. Rattigan aims to provide all required plant requested from its own assets and it is a policy not to cross hire any plant.

In order to conduct further beneficial relationships with customers, the Company is more than happy to negotiate when agreeing a fee.

A whole host of prestigious projects have been worked on by J.A. Rattigan. This included work for Thames Water to mend a burst water main.

The Company was called in to assist in the safe exposure of a burst water main due to the amount of buried materials in the ground next to it, which threatened to make it extremely hazardous to use any mechanical excavators.

The job was completed safely and quickly with no damage.

Located in the heart of London, a refurbished electric substation required excavation covering one metre underground spread across the diameter over 15 metres.

J.A. Rattigan was able to assist throughout the project, working together with its plant hire equipment and by implementing small excavation areas in which the suction excavation could be used. It reduced damage to cables and other environmental areas.



To enable the Company to excavate material, two holes with the excavation window size of 400sq mm were created, excavation nozzles and flexi hoses were used to enable an operative to excavate underneath cables and ensure the correct depth was met.

Each phase was coordinated by the J.A Rattigan scheme to avoid any disruption, while health and safety was at the forefront, with the team informed and trained for potential risks on site and precautions were taken.

This was completed in 2012 on behalf of Laing O'Rourke, and Neal Fitzgerald spoke in glowing terms about the impact and effectiveness of J.A. Rattigan.

The Volkers, an Environment Agency project, is benefiting from J.A. Rattigan's team of suction/vacuum specialists, surveyors and operators who are on site to undertake the task of removing both solid and liquid material, above ground from the river bank.

The aim of this project is to reduce the river levels by using suction/vacuum technologies to clear the river bank to enable a concrete barrier to be constructed as a way of flood protection.

By using more than 50 metres of extension hoses liquid, solid and silt type material was extracted and contained within the suction/vacuum excavator and tipped into an allocated on site tipping area.

We are labour suppliers to the water industry as well as undertaking water contracts.

"We have used J.A Rattigan & Son in various capacities and have always found them to be very professional in their approach," he said.

"As safety and legal compliance has increased throughout the construction and utility sector over this period, I am pleased to confirm so have the staff and team at J.A. Rattigan & Son.

"We have found them to be compliant and generally proactive in their approach, maintaining a safe and legal fleet."

A project that is still ongoing is located at Edmonton in London and commenced in July 2013.

Other clients that the Company has successfully worked with include Skanska Piling, Southern Electric and Instalcom Ltd, whose General Manager, Peter Evans, spoke about the working relationship with J.A. Rattigan.

He said: *"Over the last ten years, Instalcom Ltd has built up an excellent working relationship with J.A. Rattigan, founded on the level of service and reliability.*

"We would have no hesitation in recommending them to others looking to hire plant equipment in the construction industry."

**If you have a project
that there may be a
use for suction
excavation please
contact us and we will
answer any questions
you may have.**

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