

twma update

Oil and gas waste management newsletter for TWMA staff and clients

Winter 2011/12

TWMA Secures Offshore Ireland Contract



10 Year Anniversary of First Offshore Operation • TWMA recognised at International Awards
• Vessel Tank Cleaning Case Study • Maersk EnSCO 101 Case Study • New MENA Appointment
• Complete Waste Management Service Package • HR Update - training and competency department

Welcome to the latest edition of TWMA's Newsletter

We have experienced a strong year in terms of business success, expanding our operations in the US and the Middle East, and increasing our presence in Norway with the launch of an office in Stavanger to support operations at our existing Mongstad base.

We have continued to build client relationships globally and have grown our teams to this end, in the knowledge that a local presence is important for maintaining customer relations.

Our complete waste management service package offering is enjoying an increase in demand and is proving to save time and money for clients. Meanwhile winning our second contract offshore Ireland is testament to the strength of our service offering and our team. Drilling in Irish waters is expected to pick up in 2012 and we look forward to securing more drilling waste management contracts there.

TWMA is also pleased to announce that we have recently become a member of Decom North Sea and anticipate increased work in this area, building on the knowledge and expertise gained from previous projects.

Looking at 2012, TWMA will continue to have a strong presence at regional and international events and we look forward to seeing you at North Africa Technical Conference and Exhibition, OTC and ONS as well as various IADC/SPE shows across the globe. We will keep you updated on our attendance at such shows via our new website.



Ronnie Garrick, Managing Director

TWMA Secures Offshore Ireland Contract

TWMA has been awarded a significant contract by Providence Resources Plc. The contract is for the handling and treatment of drilling waste from the Providence Resources Plc operated Glomar Arctic III rig in the Celtic Sea.

It is the second contract for TWMA in the region and will involve a skip-and-ship operation to transport the drilling waste from the Barryroe well offshore Cork in Southern Ireland to TWMA's Peterhead base for processing.

Dave Simpson, Business Development Manager – UK, TWMA said: "As there is no drilling waste processing facility in Ireland we have been contracted to provide our skip-and-ship operation to transport the drilling waste to the UK for treatment.

"We have worked offshore Ireland previously and understand the procedure, it is not a straightforward process for Irish waters and we are able to use our experience.

"Our team supported the application for the Trans Frontier Shipment (TFS) licence which allows us to transport drilling waste from one country to another, in this case in line with legislation set down by the Irish authorities and the Scottish Environmental Protection Agency (SEPA).

"Being involved from the outset of this project means that we are already making considerable savings for the operator and will be able to reuse and recycle all of the drilling waste from this well.

"We will provide our complete drilling waste handling services on board the Glomar Arctic III, utilising cuttings bins and a range of CCDS equipment to ensure full environmental compliance during the drilling operations. Activity is forecast to pick up in 2012 and we are excited by the prospects there," he continued.

TWMA's first contract in Irish waters was for a similar skip and ship operation on board the

Ocean Guardian semi-submersible rig. During this project the company gained invaluable experience for future work in this region.

In total, 478 tonnes of drilling waste was contained during this first project and then transported to the UK for processing at our Peterhead facility in order to recover the constituent material.



TWMA modular bin filling station

TWMA's first offshore processing project in the North Sea in 2001

TWMA is celebrating the 10 year anniversary of its first offshore operation, when its TCC RotoMill was deployed to test a theory of drill cuttings being processed thermally offshore.

In 2001, the revolutionary TCC RotoMill equipment was installed on a rig in the UK North Sea in a partnership undertaken with a major operator to progress waste management solutions within the offshore industry under the Oslo-Paris (OSPAR) Convention.

Since it effectively introduced a European limit on cuttings contaminated with oil-based or synthetic muds, oil and gas operators in the UK and Norway have adapted working practice to adhere to an increasingly restrictive and complicated environmental legislative framework, the primary impetus for change being the new discharge rules – that only a maximum of 1% oil content in cuttings would be allowed overboard.

Regulated discharge levels are increasingly becoming the norm across international waters as heightened public interest in the industry draws attention to the human and environmental risks of offshore drilling.

This has opened up international opportunities for companies like TWMA

which designs, manufactures, installs and operates drilling waste management technologies that help operators surpass stringent HSE legislation.

According to David Manson, Senior Operations Manager, TWMA: "It is incredible to see how much our technology and the entire energy industry has progressed in the past 10 years. We knew that we were ahead of our time, in a position to advance the industry and we have been building on this ever since.

"At the time the TCC RotoMill had the ability to process just a tonne of cuttings per hour offshore compared to seven tonnes per hour today, that is 55,000 metric tonnes per annum, 24 hours per day, highlighting one of the TCC RotoMill's distinct advantages over rival systems. Across our fleet of technologies, we can now process one million tonnes of cuttings per year," he continued.

TWMA and its equipment have developed exponentially since the initial partnership when it proved that cuttings could be successfully processed offshore whilst also proving that operators could meet the OSPAR discharge requirements.

The firm's philosophy to onsite processing is



simple and efficient – contain, minimise, reduce and reuse. The complete containment, processing and recycling of drill cuttings at source will minimise the handling of materials, reduce the volume of wastes transported to shore for disposal, and the reclaimed barrels of oil can be returned to operators for reuse.

This in turn reduces the likelihood of environmental incidents offshore, is better for the marine environment, improves health and safety standards and reduces costs for petroleum companies.

TWMA is Recognised at International Business Awards

TWMA was named as a finalist and awarded runner-up in the 2nd annual BABC Houston International Business Awards, in the small-mid sized business category.

The awards, open to UK and US companies of all sizes and from various sectors, are a programme of the British-American Business Council Houston designed to recognise companies excelling in trade and investment between Texas and the UK.

"UK companies invest \$20bn into the economy of Texas annually. And, there is roughly \$8bn in trade between the UK and Texas. The UK is the single largest foreign investor in Texas. UK companies account for nearly a fifth of all jobs created by foreign-owned affiliates in the state.

"BABC wants the companies participating in this transatlantic trade to receive the recognition they deserve for the vital role they play in the economies

of Texas and the UK", said Becci Himes, Executive Director, British-American Business Council Houston.

The purpose of the awards is to encourage and recognise companies who have made significant contributions to growing and enhancing trade, commerce, civic, philanthropic, and/or cultural relations between the United Kingdom and the Texas.

Ian Nicolson, VP Business Development - Americas, TWMA: "We are delighted to have been named a finalist in the BABC awards and to have the successful progression of our strategic growth plans acknowledged here.

"We recently announced the expansion of our American operations due to several significant contract wins in the region. We will be moving to a larger site in Houston to allow us to design, procure, manufacture and commission equipment which will be operating across the Americas.

"We are creating up to 300 jobs at our



Houston base, this recruitment drive is underway with a number of personnel now working as part of the specialist team.

"In the past couple of years we have made several significant steps forward in terms of the strategic growth plans of the company within the USA and look forward to further strengthening relations between the UK and the USA," he continued.

TWMA Appoints New MENA Business Development Manager



Danny Murray, MENA Business Development Manager, TWMA

Danny Murray has been appointed to the newly created position of Business Development Manager for the Middle East and North Africa (MENA).

This move comes as TWMA announces its plans to set up a base in Dubai as part of its continuing growth strategy.

Mr Murray joins the team at TWMA with over 20 years experience and extensive knowledge of Middle East and North African markets, having previously held senior positions with R&M Energy Systems and Varco.

Most recently Mr Murray served as Regional Manager with COR International in Dubai with responsibility over the MENA region.

In his new role at TWMA he will manage and co-ordinate the implementation of the company's growth strategy, driving the development of new business in these key markets.

Ronnie Garrick, Managing Director at TWMA, said: "Danny's experience makes him a valuable addition to the team. He will play a key role in maintaining client relationships and developing the business

in the Middle East and North Africa as we look to expand further into these regions."

Mr Murray said: "TWMA has an established reputation for providing complete waste management solutions to a diverse range of clients around the globe. I am greatly looking forward to working with them and growing our business network.

"The company plans to create a permanent base in Dubai where we plan to expand our team with the recruitment of operational and engineering staff. This will allow us to be proactive in increasing our footprint in the MENA Region.

Mr Murray said: "The Middle East and North Africa are increasingly important locations for us with several offshore processing projects in the pipeline for 2012.

"The North Africa team has done a fantastic job there and the strategy is to replicate this success at the new Dubai base," he continued.

Case Study - Vessel Tank Cleaning, Safaga, Egypt

"TWMA was contracted by Hess Egypt for the provision of waste management services on a recent drilling campaign. Hess assigned TWMA to carry out a full vessel tank cleaning operation on three of their supply vessels, prior to off-hiring. TWMA successfully planned, mobilised and executed the entire operation in Safaga port, Egypt. The operation was conducted safely and efficiently, allowing Hess to off-hire the vessels ahead of schedule, which brought significant cost savings"

Neil Thomson – Group General Manager

Project Scope

At a late stage in the drilling process (after reaching target depth of the well but before releasing rig and supply boats) TWMA was requested to carry out the offshore rig pit cleaning, as well as vessel tank cleaning for three boats and mud plant storage tanks at Safaga shore base and jetty on behalf of Hess.

The release dates versus the work scope made this a challenging target, and considered critical to minimise costs at this stage of the well and overall project.

TWMA Solution

Good planning was the key. The TWMA team planned the simultaneous cleaning operations effectively and categorised this stage as a full project with dedicated teams and resources. TWMA assigned 32 team members to the project including six supervisors, two full tank cleaning packages with back-ups to carry out the vessel tank cleaning at Safaga jetty.

With this level of resources, TWMA supported the project by assigning Alexandria Base Operations Manager, Paul Austin, at the work site to provide overall management, support and client liaison.

Project Results

TWMA safely and successfully cleaned (to full off-hire standard) a total of 40 oil based mud (OBM) tanks and 16 bulk tanks with over 170 MT of bulk powders were removed for disposal.

Over 1500 MT of liquid waste, tank washings, slops and OBM were transferred, contained and disposed of by TWMA through our process systems with no environmental issues.

Case Study - Maersk Ensko 101

“TWMA was contracted by Maersk Oil North Sea UK Ltd to manage and process drilling waste produced during drilling on the Ensko 101 rig. TWMA personnel handled this project from installation, commissioning and operation to complete project management.”

Ally Parker – Maersk Account Manager

Project Scope

TWMA was contracted by Maersk Oil North Sea UK Ltd to contain, process, reuse and recycle drilling wastes produced offshore while drilling the 16 inch and 12¼ inch sections of a well on the Ensko 101 drilling rig in the Culzean oilfield in the North Sea.

TWMA Solution

Over 9,700ft of 16 inch top section and 1,449ft of 12¼ inch section was drilled. The subsequent drilling wastes were contained using TWMA's CCDS system which then transferred the materials to TWMA's TCC RotoMill for final processing.

The total volume of drilling wastes processed at source was 1,722.03MT with a throughput of over six tonnes per hour and a TCC RotoMill running time of 284.80 hours.

The total amount of recovered oil reused in mud systems during the project was 1,893 barrels of oil. The total volume of recovered water and recovered powder was 226,760 litres and 1,205.23MT respectively.

Project Results

TWMA's involvement in this project resulted in minimal waste being transported ashore to landfill, no offshore or onshore crane and forklift movements and no requirement for bulk transfer tanks, supply vessels or the associated logistics chain.

A team of TWMA personnel handled this project from installation, commissioning and operation to complete project management.

Approximately 5,500 man hours passed during this operation with no incident, accident or environmental issue.

From the total volume of drilling wastes handled and processed during this project the percentage of materials recovered were as follows:

- **17.4% oil – 100% recovered and reused in mud system**
- **13.1% water – 100% recovered and dispersed**
- **69.5% rock powder – 100% recovered and dispersed**



TWMA's TCC RotoMill and CCDS equipment installed offshore

TWMA's Complete Waste Management Service Package

TWMA offers the oil and gas industry a complete waste management service package combining the company's integrated drilling waste and environmental services. As operators seek to maximise operational and cost effectiveness TWMA is seeing an increase in demand for this complete service provision.

The upstream and downstream oil and gas industries produce a wide variety of wastes typically including drilling fluids, drill cuttings, slops and general waste.

Managing these wastes is an increasingly important consideration of oil and gas operations, whether onshore or offshore, and TWMA's services are progressively being utilised to deliver an all-encompassing waste management solution to its clients.

As an experienced provider of waste management services, TWMA has a proven track record for delivering both integrated drilling waste and environmental services projects safely and efficiently, and in compliance with evolving international environmental standards and regulations.

Dave Simpson, Business Development Manager – UK, said: "No other UK service company offers this kind of one-stop-shop to its clients. We found that TWMA was, and still is, frequently being contracted onto jobs to provide drilling waste and environmental services as other service providers could only offer one or the other – never both.

"By combining our environmental and integrated drilling waste services TWMA is able to offer its clients an inclusive approach to the treatment of waste streams generated during their drilling campaigns. This maximises cost effectiveness as it removes the need to contract more than one service provider."

TWMA offers industry leading onsite solutions for the handling, treatment and disposal of drilling wastes through their cuttings collection and distribution system (CCDS), TCC RotoMill and TCC RotoTruck technologies.

This combined with TWMA's comprehensive range of premier drilling and environmental waste management services, provides the industry with a complete single source solution for handling all waste streams.

TWMA currently has four international onshore processing sites in the UK, Norway, Nigeria and Egypt. The company's primary processing locations house all the necessary facilities and supporting infrastructure to ensure that TWMA can provide a complete waste management service to clients, encompassing both drilling waste and environmental services.

The extensive range of onsite services includes:

- Thermal processing – TCC RotoMill operating 365 days a year
- Slops & sludge treatment – via TWMA's own in-house developed Slops Plant
- Drill cuttings storage
- Slops storage
- Cuttings bin and container hire
- Industrial services – onshore tank cleaning, marine vessel cleaning and tanker hire
- Onsite laboratory – for the onshore testing of pre and post treatment materials
- General waste management – ability to receive all wastes streams generated from offshore activities
- Recycling
- Hazardous waste management – ability to receive and house hazardous waste
- Waste treatment processes
- Spill response
- Decommissioning
- Training and consultancy

TWMA is able to combine its treatment solutions for the waste streams generated in oil and gas operations – maximising reuse and recycle options at source to reduce the volume of wastes disposed at landfill and significantly reducing the environmental impacts of operations both onshore and offshore.

TWMA can tailor its services to deliver a bespoke waste management package to suit any client looking for a single source provider to manage all of its wastes.



HR Team Growth to Support International Expansion



(L-R): Lisa Moir and John Mutch

To support our continued international expansion, Lisa Moir has joined the company as Group HR Manager and will be responsible for leading and managing the HR function of the TWMA Group.

She will also have responsibility for HR strategy, implementation and reporting, as well as overseeing all HR matters including recruitment and selection, employee relations, performance management, employment law, change management, and training and competency.

Lisa is supported at our Aberdeen head office

by Jill Farquhar, who has been promoted to HR Advisor and Katie Hay who has recently joined the team as HR Co-ordinator, assisting with the group's international HR requirements.

Our HR support in Norway and Egypt will continue to support our employees in these locations.

Training and Competency Department Strengthened

To coincide with the growth of our HR team, we have strengthened the Training and

Competency department located at TWMA's head office in Aberdeen.

The training and competency process reinforces TWMA's commitment to excellence, to provide the best quality product and service, and adhere to the high standards we have set for health, safety and environmental performance.

To this end, John Mutch has joined the company as Training and Competency Specialist and will be responsible for maintaining and developing systems for recording, processing and reporting on training compliance and the competence system.

John is being supported by Sandy MacKay in his capacity as Training Advisor.

According to John: "The Competence Management System has been developed to benefit both our employees and the company. It will be achieved through a combination of formal training, assessment and on-the-job experience.

It is an auditable system which will provide evidence to our clients and any legislative bodies, such as OPITO and ISO, that we maintain a trained and competent workforce as well as actively encouraging and enabling personnel to develop within the company.

"We will be introducing the improved system with an initial pilot programme for on and offshore operational employees. The programme will then be rolled out to all other areas of the organisation including a focus on management."

New Starts at TWMA:

Engineering

Scott Hamilton, Project Engineer
Craig Turpin, Project Engineer

Finance

Catherine McCallum, Accounts Payable Assistant
Lyndsay Broom, Management Accountant

HR & Administration

John Mutch, Training and Competency Specialist
Lindsey King, Receptionist
Katie Hay, HR Co-ordinator
Lisa Moir, Group HR Manager

HSEQ

Emma Roberts, HSEQ Advisor

Maintenance

Ross Grant, Welder Fabricator
William Ainslie, Welder Fabricator

Stuart Mackay, Site Operator - Stores

Neil Bisset, Service Engineer

Eric McDonald, Service Engineer

John Lamb, Mechanical Assistant

Matthew Aaron McIntosh, Maintenance

Electrician

Matthew Alexander McIntosh, Maintenance

Electrician

Lisa McGregor, Engineering Co-ordinator

Kieran Smith, Site Labourer

Graeme Dunnet, Site Operator - Stores

Offshore Operations

Darren Watson, Offshore Operator

Jamie Young, Offshore Operator

John Bruce, Offshore Operator

Mark McGee, Offshore Operator

Michael Mair, Offshore Operator

Mindaugus Giedraitis, Offshore Operator

Thomas O'Malley, Offshore Operator

Nicky Jamieson, Offshore Operator

Andrew Anderson, Offshore Operator

Liam Barclay, Offshore Operator

Darren Rutherford, Lead Engineer

Operations

David Whitelaw, Environmental Technical Analyst

Sales & Marketing

Robert O'Neill, Sales Director

Tyler Garrick, Sales and Marketing Assistant

Vicky Milne, Proposals Engineer

Matthew Bristo, Invoicing Controller

Danny Murray, MENA Business

Development Manager

Peterhead

Keith Forbes, Site Operator

Steven Davidson, Bin Control Operator

Vatster

Oliver Johnson, Site Labourer

Egypt Golf Sponsorship



TWMA employees amongst other participants of the golf tournament

TWMA sponsored the recent 3rd annual Egypt Oilman's golf tournament at the Katameya Dunes Golf Club in Cairo.

We donated EGP1,500 which will go towards helping local charities, and sponsored a dinner voucher worth EGP400 at Dusit Thani Hotel in New Cairo for the 16th hole, par 3.

Egypt Oilman's Golf tournament has directly benefited over 200 orphans and young street children to date, helping make life better for those less fortunate.

Head for Heights!

John Mutch, TWMA's training and competency specialist, has committed to doing the Stirling Charity Skydive.

He is aiming to fundraise a minimum £500 for Cancer Research UK, the world's leading charity dedicated to saving lives through research.



Wear it Pink Day

Our UK offices at Aberdeen, Tullis and Peterhead participated in the annual Wear It Pink Day which raises money for Breast Cancer Campaign. Members of staff raised a grand total of £313.70 for the worthy cause.

The event simply requires people to wear at least one item of pink clothing and donate £2 to the charity, which currently supports 101 research projects worth over £17.2m in 34 centres of excellence across the UK and Ireland.

Wear It Pink Day is Breast Cancer Campaign's biggest fundraising event. People across the UK are asked to hold a pink dress down day, where donations on the day are made to Breast Cancer Campaign. Breast Cancer Campaign uses all Wear It Pink donations to fund innovative, world-class research throughout the UK and Ireland to understand how breast cancer develops, leading to improved diagnosis, treatment, prevention and cure.



TWMA employees at the Aberdeen Head Office who participated in the Wear It Pink Day



This newsletter is printed on 100% recycled paper.

Head Office TWMA Ltd, Broadfold House, Broadfold Road, Bridge of Don, Aberdeen, AB23 8EE UK
T: +44 (0) 1224 222520 F: +44 (0) 1224 222589

Tullis TWMA Ltd, Greenbank Road, East Tullis, Aberdeen, AB12 3BQ UK
T: +44 (0) 1224 222520 F: +44 (0) 1224 222589

Peterhead TWMA Ltd, Unit 12 Dales Industrial Estate, Peterhead, AB42 3JF UK
T: +44 (0) 1779 472604 F: +44 (0) 1779 470268

Shetland TWMA Ltd, Vatster Gott, Shetland, ZE2 9SG UK
T: +44 (0) 1595 840431 F: +44 (0) 1595 840703

USA TWMA Inc, 3300 S Gessner Road, Suite 117, Houston, Texas, 77063
T: +1 713 782 0076 F: +1 713 534 1417

Libya TWMA, Libya, Unit 24, Building 1, Souk Atholatha Asharnali, Tripoli, Libya
T: +218 (0) 2133 70199 F: +218 (0) 213370199

Norway TWMA Norge AS, Mongstad Sør, 5954 Mongstad, Norway
T: +47 56343130 F: +47 56343131

Norway TWMA Norge AS, Luramyveien 40, Building 1, 4313 Sandnes, Norway
T: +47 (0) 516 30835 F: +47 (0) 94761620

Egypt TWMA, Egypt (Oil Services) S.A.E., Street 12, c/o Alexandria Public Free Zone 29km, Alex Cairo Desert Road, Ameriya, Egypt
T: +20 (0) 12 900 1612

Egypt TWMA, Egypt (Oil Services) S.A.E., 64 Street 13 Port-Saied Square, Maadi, Cairo, Egypt
T/F: +20 (0) 223800759

Email: sales@twma.co.uk

Copyright © 2011 TWMA Ltd



Produced by thinkPR