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New shareholder Verwater Group

In July 2014, Infestos (Enschede, the Netherlands), has acquired a majority stake in the Verwater Group. Together with the entry of the new investor, there has been a rebranding in which additional capital was raised. Jointly these actions led to securing the company’s future. In addition the board of directors changed and Filip De Wilde has been appointed as CEO.

Verwater is an independent investment organisation, amongst others focused on sustainable investment of capital in participations. Infestos differentiates from other investment companies through its team-oriented, action-driven approach, which goes beyond providing capital. Infestos believes in creating value through joint-entrepreneurship.

Bernard ten Doeschot (Infestos): “The Verwater Group is a company with unique capabilities and knowledge of tank construction and maintenance. The company is known for its high quality based on experience, knowledge and self-developed technology. We have confidence in realizing the company’s full potential and look forward to a sustainable relationship with this wonderful company.”

Record size tank jacking 1,000,000 bbl

On the SEIC refinery two of the largest size onshore surface storage tanks of Singapore are located. For maintenance purposes tank 1140-TA was taken out-of-service and some repairs were carried out. Since the tank had shown minor settlements, these had some effects on the verticality of the tank shell. Although this was not in an alarming stage, the possibility of a future increase in out-of-verticality with chances of seal gaps or reduced diameters, resulted in the decision to carry out partial level corrections. The 103.632 meter diameter floating roof tank was partially jacked enabling to install foundation materials underneath the tankshell area.

Nigerian Tank Upgrades

At the Mosimi terminal in Nigeria, located near Lagos, Verwater together with our Nigerian partners carried out both repair/maintenance and new tank construction works. The total works included the construction of one new tank with Aluminum dome and Insulfloater with a diameter of 44.1 m, as well as the refurbishment of 3 more tanks, two of 44.1 m diameter and one 36.9 m diameter tank. The works on these tanks consisted of jacking, foundation repair inclusive liner installation and also the supply of the aluminum domes and IPC’s.

For all these tanks Verwater carried out the engineering and design and supplied materials for the repairs and construction. Three tanks were jacked up to a level of 2.2 meters and all 4 tank foundations were equipped with a HDPE liner as secondary containment. A good partnership in a part of the world where Verwater has been active for more than 25 years.

Linking the units at Air Products Rotterdam

In 2014 the maintenance and new construction contract for piping with Air Products was extended for another 3 years, this for both the Europort and Botlek site. For the Gan (nitrogen) Supply Project we delivered and installed a metering Skid and 5 IJAP pipelines of 12 meters high inclusive of all pipe connections.

We also started with the installation of two high- and low-pressure gas-lines (6” and 8”) this all in relation to the construction by Verwater of a natural gas skid and a boiler feed water skid.

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During two ‘stops’ the Verwater crew of almost 30 employees was involved in the mounting of compressor K102 and (unplanned) pipe works in the new Condensor building. During this same period several Tie-ins were planned for the installation of the gas skid.

Since Verwater is already for a longer period involved in all these types of works, the main goals of safety, quality and extra scheduling have been achieved.
Turkey Branch has completed the project which was an EPCC lump-Replacement Project. After 23 months hard work, Verwater EMEA BV of all Turkish national Management Team of Verwater EMEA BV average of 215 (in peak time 300) local workers under the supervision.

March 2013, construction and other site activities were performed by In-house Engineering Department of VERWATER EMEA BV Turkey Branch Office located in Istanbul. Following the site mobilization in 2012, all detail engineering which consist of Process, Civil, Mechanical, Piping, Environmental, Electrical and Instrumentation was performed.

After the EPC contract had been signed with BP-BTC in November 2012, all detail engineering which consist of Process, Civil, Mechanical, Piping, Environmental, Electrical and Instrumentation was performed by In-house Engineering Department of VERWATER EMEA BV Turkey Branch Office located in Istanbul. Following the site mobilization in 2012, all detail engineering which consist of Process, Civil, Mechanical, Piping, Environmental, Electrical and Instrumentation was performed.

24 km piping were completed.

At the end, the construction of 3 pieces of 4,000 m3 reinforced concrete pouring, 2.300 tons of steelwork, 24.000 m pipe erection and 60.000 m cabling were performed.

Moreover than all these achievements in KPIs, restoration of Gölovası Primary School which is located at the neighboring village to the project site was fulfilled by Verwater EMEA BV Turkey Branch.

240 new steel plates of the top-deck. A difficult and challenging job, however thanks to the extensive preparations, the good execution and the incredible effort of the people involved, we delivered on time, within budget and we can look back on yet another great job with the people of MOVE.

Throughout the Project over 820.000 man-hours achieved without any DAFWC or RI and 13.500 total hours of HSE trainings were provided for all project team members. Within the scope of the Project, nearly 22.000 m³ excavations and backfilling, 2.600 m³ reinforced concrete pouring, 3.000 tons of steelwork, 24.000 m pipe erection and 60.000 m cabling were performed.

At the end, the construction of 3 pieces of 4,000 m³ OWS Dome Roof storage tanks, 5 pieces of 125 m³ Cone Roof Tanks, 2 pieces of 200 m³ Horizontal Drums and the installation of process equipment with a total of 24 km piping were completed.

Moreover than all these achievements in KPIs, restoration of Gölovası Primary School which is located at the neighboring village to this project site was fulfilled by Verwater EMEA BV Turkey Branch Office under the project social responsibility program.
Big Bang theory in Moerdijk (and practice)

In Shell Moerdijk, Netherlands a very special repair project was carried out with the tank experts of Verwater and Shell. The tank for storage of Butadiene consisted of a double hull, externally a concrete shell and internally a steel shell. Due to an unforeseen settlement a dent appeared in the tank shell about halfway the tank height. Both the settlement and the dent needed to be corrected which required extensive engineering and modelling as well as a lot of ‘out-of-the-box’ thinking.

This resulted in a unique approach where two different Verwater jacking systems were combined. Special support structures were designed and installed internally, by cutting holes in the tank shell, enabling us to install jacks on beads without forcing the shell plates. On the most important day there was a countdown to the actual operation. Slowly and under full control the jacking systems were pressurized, while the behaviour of the tank shell was monitored. And with a loud ‘bang’ the complete dent disappeared leading to the predicted result.

Tank jacking East-Malaysia

At the Labuan Crude Oil Terminal (LCOTT) in the Sarawak-Sabah region part of Kalimantan Verwater Singapore received the request to jack a tank for Sabah Shell Petroleum. Although not a large size tank the challenge was to create sufficient working space underneath the jacked tank. That is why was chosen to jack the tank with only external jacking points until a level of 2 meters, allowing for foundation repairs without obstructions. Internal this required additional reinforcements to secure the integrity of the tank shell. As common for these kind of projects the works were carried out with the input of a local workforce supervised by the Singapore jacking experts.

Grandfather in the air!

This door sheet was necessary for the safe demolishing of the roof and rafter. After this activity was done, the boltam was taken out too. Within 3 weeks of preparations, Verwater jacked this storage tank and installed the entire tank on cribbings and I-beams to support the tank during the civil works. There was enough space to reinstall a complete concrete ring beam of 2’ width and 4’ high.

Within a week, Verwater jacked the tank back on it’s new foundation and sill be ready for a new bright storage future. Another accomplished special project in the USA: a satisfied client, within schedule and the most important: again no safety and quality issue’s for this grandfather!

Verwater France signs first long term Tank maintenance contract with TOTAL in Dunkerque

In continuity of the partnership of the TOTAL Group and the Verwater Group, Verwater France has been awarded the contract for a Tank maintenance program starting in January 2015 and for 3 years for the TOTAL facility of Dunkerque. The site where we are active since 2009. The new policy of TOTAL refinery & chemicals, is to have only one continuity of the partnership of the TOTAL Group and the Verwater Group. Verwater France has been awarded the contract for a Tank maintenance program starting in January 2015 and for 3 years for the TOTAL facility of Dunkerque. The site where we are active since 2009. The new policy of TOTAL refinery & chemicals, is to have only

Verwater BRL SIKB 7000 v. 5.0 approved

The BRL certificate has been successfully extended beginning this year. The certificate to the highest standard in maintaining safety, when performing remediation works, as Verwater carries out in relation to our civil works at tanks. Once every three years a recertification is required. This time, Verwater USA was requested to quote a rare storage tank: a riveted storage tank, over 70 years old. The storage tank has a diameter of 135’ and a height of 40’ and had settled unevenly. Due to the planar tilt, the existing concrete ring wall was cracked, and also the tank bottom needed to be replaced.

Through smart tank engineering, Verwater decided to jack this tank till a height of 8’ by installing 34 jacking points. These points were measured on the circumference to have as less as possible friction to the vertical overlapped shell plates. This resulted in a unique approach where two different Verwater jacking systems were combined. Special support structures were designed and installed internally, by cutting holes in the tank shell, enabling us to install jacks on beads without forcing the shell plates. On the most important day there was a countdown to the actual operation. Slowly and under full control the jacking systems were pressurized, while the behaviour of the tank shell was monitored. And with a loud ‘bang’ the complete dent disappeared leading to the predicted result.

Column supported tanks a specialty on KPE

On Kuwaiti Petroleum Company UKP (KPE) Netherlands, Verwater has been involved in several tank refurbishment projects. One of these upgrade projects was tank 623, a column supported fixed roof tank with a diameter of 50.8 meters and a height of 16 meters. The general scope included the jacking of the tank, foundation rein- statement and renewal of the entire tank bottom. The columns form a special point of attention for the jacking operations. To remain the integrity of the roof this has to be monitored and secured during all jacking activities. For the removal of the old tank bottom our hydro- cutting technique was used. The new foundation was built up with crushed stone ringwall, sand, a HDPE-liner and sandsand mix on top. In the meanwhile the week is back in use for a long service in the future.

Waterdrops • ‘Since 1922’

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Civil maintenance contract at TRA renewed

Verwater is happy to announce that The Total Refinery in Antwerp has extended the partnership with Verwater regarding the civil maintenance contract. For the upcoming 5 years Verwater will execute all civil maintenance works on the TRA site.

Verwater has been present on Total as a civil contractor since 1996 with a constant presence of at least 30 workers. A large part of the scope consists of excavation and refilling works, road and sewage repair, interventions on leaking underground pipelines and general concrete works (new and repairs).

25 years Waterdrops

With the announcement ‘It just doesn’t drop out of the sky’ in 1990 the first ‘Waterdruppel’, the Dutch version of Waterdrops was issued. By that time it was a single language newsletter with articles on tank jacking in Nigeria and Kuwait Petroleum, Projects on rental of temporary accommodation and information on exhibitions. The 4 page A4-size edition has since than developed to an 8 page issue in tabloid format, giving information on projects worldwide, from all our branches. This issue is edition nr. 27 in the nowadays yearly distributed version.

Back to the future

Verwater-Shanfari Oman received the request to carry out tank inspections on two tanks at PDO in Oman. For Verwater this was a return back to the place where we carried out tank jacking works in 1974. This time we investigated the options for tank repairs to make them suitable for future operations. These kind of inspections can be the ideal first phase to get to an optimized repair solution to have a long lasting service of a storage tank. With Verwater-Shanfari we have the capacity and solid base to carry out tank maintenance works as well as new construction projects in Oman and the Gulf-region. Where the input of Verwater will be in the field of their specialisms of engineering, tank jacking, advice and specialist support.

Colophon

Waterdrops is a newsletter of the Verwater Group 25th year, edition 27
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Important dates:
- Stocexpo Rotterdam, Ahoy, 17-19 March 2015, Netherlands
- Tank Storage Asia, Marina Bay Sands, 29-30 September 2015, Singapore