Three Year Review
2016 - 2018

...Building the world beneath you...
Looking back over the last three years performance, I am very pleased to report that as a Group, we achieved and in some cases exceeded, all the various business targets that we had set. The Bothar Group undoubtedly has a unique position in its selected markets, with the demand for our subsurface engineering solutions growing globally and at a sustainable rate.

Enclosed are some of the highlights over the last 3 years, which really speak for themselves; these kind of exceptional results are only made possible because of our valued employees and their passion and commitment to work in our many specialised project teams and operational support roles, across our global operations. Driving our performance and success is our talented multicultural team of 1000 employees of 30 different nationalities working across 10 countries, who are continually converting exciting opportunities, into secured and delivered projects. It is this commitment, coupled with our values of safety, integrity, quality, ideas and teamwork that gives Bothar its competitive advantage that delivers our clients better results; results that ensure our clients keep coming back to us year after year.

As we continue to grow, we need to ensure that we have the right people in the right places. With our global presence expanding rapidly, including our entry into the Singaporean market, I will now be focussing more of my time on our expansion into the Canadian and US markets in the role of Executive Chairman. As a result, Mike Dart has now been appointed as the Managing Director for the Group. Mike is aware of our culture and success factors and was part of Bothar when we first expanded from Australia to the Middle East. He is excited and honoured to lead our organisation through the next phase of our journey.

In closing, Bothar is in an excellent position. The demand for our offerings is robust, led by the strong global investment in urban infrastructure development in all our target markets. The Bothar brand is now well recognised globally and is why our pipeline of work continues to expand with a positive outlook for 2019 and beyond. I would like to thank our employees, our shareholders, our Board and our clients for their continued support and thank you all for the part that you have played in our success.

Noel Kerr
Managing Director
Coleman Microtunnelling completed the installation of the 2000mm internal diameter tunnels for a combined length of 2,650m, with a maximum single subsea drive length of 1085m, through fresh rock greater than 250MPa. The tunnels formed the seawater intake and outtake for the power station cooling system for the KPONE 340MW Thermal Power Station in Ghana.

The project comprised of 4 tunnel drives; the seawater intake tunnel was 545m long, with a 700m horizontal radius, the onshore seawater outfall tunnel was 520m long, with a 900m horizontal radius, the offshore seawater outfall tunnel was 380m long and terminated into a pit excavated into the seabed and the offshore seawater intake tunnel was 1085m long, which also terminated into a pit excavated into the seabed.

The Tunnel Boring Machine (TBM) utilised for the project was specially equipped allowing the TBM to travel under the seabed, up to 3.5 bar pressure, until it reached excavated pits 9m below the seabed. The TBM was then recovered from the pit, 18m below the water surface. The total length of the TBM was 15 meters with a mass weight over 100 tons. Two 8m diameter, 11m deep secant piled launch shafts were utilised for each of the four tunnel drives.

The seabed recovery of the TBM from the seabed for both marine drive receptions, a first for Sub-Saharan Africa, was carried out in coordination with a marine spread involving the sealing of the tunnel ends, detaching and lifting the TBM to the ocean surface and floating it back to a dry dock.
We recognise that the preservation of the planets ecological biodiversity is vital to the advancement of our society, economic development and our commitment to providing a sustainable delivery solution to each of our stakeholders. We are all in this together and when you partner with Bothar you know that we will be bringing to you a subsurface engineering solution that minimises our environmental footprint, carbon emissions, land, water, air, noise and visual pollution.

SAFETY LEADERSHIP

Planning for emergency tunnel rescue is a normal part of our project delivery system, our site crews are trained and equipped to respond to any emergency situation that may arise inside a tunnel. We look out for each other, we communicate effectively, and we conduct practice drills on every site to ensure that our emergency response procedure is adequate for the site-specific shaft and tunnel conditions. Our senior management are a visible part of our safety leadership through their regular site safety walks.

OUR PEOPLE & INNOVATION

We recognise that the fundamental requirement for a successful project is to have the right people in the right role with the right equipment. Bothar developed a customised Aggressive Variable Hard Rock Cutting Unit that can deal with extreme ground conditions encountered on a project, this innovation has resulted in improved productivity and less equipment maintenance and a cost saving to our clients. Our core leadership team are experts in our fields, highly visible and are directly accountable to our clients for the performance of our projects.

BOTHAR PROUD SPONSORS OF BLUE PLANET II

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**Digitisation of Project Delivery Systems**

Our project execution systems are now fully digitised and are created on electronic site pads that provide continuous, real-time, 24/7 reporting of safety, quality and environmental performance, actual daily production, personnel, plant and material resources on-site, issues for resolution and continuous project monitoring including client collaboration from anywhere in the world.

**ACquisition of IPC**

The recent acquisition of IPC, a leading Direct Pipe Installation Contractor, signalled our entry into the burgeoning Canadian and US infrastructure markets with the added benefit of bringing this organisational and technical capability into our extensive and wide-ranging subsurface engineering solution offerings.

**Bothar Cranes**

Bothar Crane Hire, specialising in heavy lifting, provides our tunnelling clients with a significant competitive advantage. It also provides other clients with a specialised service in heavy lifting for major infrastructure projects including the oil and gas sector and is helping Qatar to prepare for the 2022 World Cup.
This 1500mm diameter 610m length GRP sewer tunnel was constructed within the constraints of the busiest section of the Melbourne CBD, adjacent to the main train station and high-rise residential apartments without impacting the live traffic flow, tram traffic, pedestrian flows and the adjacent residents. Bothar eliminated the need for an additional shaft, compressed our surface area working footprint, sound proofed the works and completed the project on time, with zero complaints from the local stakeholders.

Near completion of Al Mutlaa – Mega Project

We are near completion of this mega project in Kuwait which involved the installation of 43,000 m of microtunnelling ranging from 300mm to 2500mm diameter, the construction of 750 shafts up to 30m deep, in the Kuwaiti desert, 80 km from the Iraqi border.

Rous Water Design & Construct Water Pipeline Tunnel

Bothar successfully designed and constructed a 360m long 1500mm dia GRP water pipeline that allowed for an existing water treatment plant to continuously operate and service its downstream users throughout the construction period. Construction of the pipeline tunnel in 120MPA rock, had to be in a downhill direction on a steep 6.4% grade. The launch shaft and tunnelling site were located within the plant and a drinking water catchment area. The project was completed on time with zero harm, no ground movement, no plant disruption, no pollution run off, no rainforest removal and no complaints from the affected landowners.

Spencer St Main Sewer

We are near completion of this mega project in Kuwait which involved the installation of 43,000 m of microtunnelling ranging from 300mm to 2500mm diameter, the construction of 750 shafts up to 30m deep, in the Kuwaiti desert, 80 km from the Iraqi border.
Precision planning of the critical path construction of 2000m of micro tunnelling, shaft construction, precast concrete manhole installation and heavy lifting interface by Bothar Cranes, seen Bothar successfully completing the Al Khor Project for Tekfen on an extremely tight schedule of 3 months, allowing the Al Khor Expressway to be opened on schedule.

Bothar have commenced the construction of the 1500m subsea crossing for the Gold Coast Council in Queensland, Australia. The 2000mm ID concrete jacking carrier pipe will be utilised to convey a treated effluent discharge line to a reception shaft at South Stradbroke Island. The launch shaft is a 26m deep, 12.5m diameter secant piled construction and the reception shaft is a 7.5 m diameter 26m deep pre-cast segmental sunk caisson. This sub sea crossing will be constructed underneath the seabed of an environmentally protected area of Moreton Bay, providing for its continuous use by the local community for boating, fishing and recreational activities.

 IPC recently completed a 450m Direct Pipe crossing of a 42” gas transmission pipeline as part of the North Montney Mainline Project for TransCanada PipeLines Limited. The crossing was constructed through mixed ground, 20m below the ground level and 9m below the river bed.

**GOLD COAST SEAWAY UNDERWAY**

**COMPRESSION SCHEDULE ACHIEVED FOR TEKFEN AL KHOR**

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