

CASE STUDY

ROAD ASSET MANAGEMENT CONTRACT, SOUTH EAST QUEENSLAND TRANSPORT VBA JV CONTRACT



COMMENCING IN NOVEMBER 2013, IN CONJUNCTION WITH OUR JOINT VENTURE PARTNERS BORAL AND AMEY (KNOWN AS THE VBA JV), WE HAVE DELIVERED HUNDREDS OF ROUTINE AND IMPROVEMENT WORKS ALONG QUEENSLAND'S SOUTH COAST, CREATING A SAFER AND MORE SERVICEABLE NETWORK FOR ALL ROAD USERS. WITH OVER 10,427 INCIDENTS RESPONDED TO THUS FAR, THE JOINT VENTURE PROJECT TEAM RAPIDLY RESPONDS TO KEEP OUR CLIENT'S CUSTOMERS MOVING AND THEIR ROADS HAZARD-FREE.

Spanning the council areas of Scenic Rim, Logan City and Gold Coast City, the Road Asset Management Contract (RAMC) services more than 1,000 lane km of roadway, and for a five-year period is responsible for:

- Provision of asset management services for pavement assets, including identification and design of improvement projects
- Programmed maintenance including asphalt overlays, rehabilitation projects and reseals across the entire network
- Routine maintenance for the network's state and national roads, including graffiti and litter control, vegetation management, drainage maintenance and pavement, road signage and furniture rectification
- The 24/7 incident response service
- Natural disaster initial response works

ENHANCING ASSET MANAGEMENT CAPABILITY

Our VBA JV team works closely with our client to complement their asset management capability with our dedicated, site-based asset management experts. We use state-of-the-art asset management and maintenance systems to collect and analyse defect and asset condition data, closely monitoring the status of the network and service level compliance.

Over the last three years, we have standardised and improved our maintenance practices to optimise opportunities to deliver value-for-money and customer-focused outcomes. This includes the following elements:

- Implementing a 'fit-for-purpose' asset maintenance system to assist with network monitoring.
- Assisting our client in the development and review of the District Tactical Asset Management Plan (TAMP). As part of the TAMP, we undertake well planned, prioritised maintenance activities and more importantly, we implement a comprehensive Routine, Periodic and Rehabilitation Treatment Works Program to achieve a 'whole-of-road' approach that minimises disruption to road users.
- Investigating and delivering cost effective pavement maintenance treatment recommendations using destructive and non-destructive geotechnical testing and data.
- Annually assisting the client to conduct, analyse and report on pavement condition surveys.

- Defining and implementing HDM4 Pavement Modelling as a continuous improvement initiative to maintain high quality road surfaces.

We take our responsibility as stewards of the South-East Queensland network seriously and this commitment underpins our asset management approach as we act in the best interests of the client and the local community.

UP TO THE CHALLENGE – RAPID RESPONSE

In March 2017, Cyclone Debbie made landfall near Airlie Beach and travelled south, leaving a trail of destruction in her path.

Known as one of the strongest and most dangerous cyclones to ever hit Australia, Debbie caused A\$2.4 billion in damage and 14 deaths across Australia, primarily as a result of extreme flooding.

To help manage the aftermath, a VBA JV 50-member strong team was deployed to respond to over 70 incidents over the entire network 24/7. Through the implementation of their established 'Critical Wet Weather Plan' our team rolled out pre-emptive hazard warning devices, emergency drain clearing, clearing branches across roads, pothole repairs, flooded causeway closures, reroutes and more.

Our crews embedded themselves within the local community, working alongside emergency services, council workers, utility workers, and members of the public. Many were affected by the cyclone personally, with their own residences receiving significant damage.

10,427
incidents responded
to by our VBA JV team



95,221m²
graffiti removed



12,959
potholes repaired &
28,046m
wire rope
and guardrail



10,276m³
of litter has been collected
since the contract began

- that's equivalent to filling almost three Olympic
sized swimming pools!

All remained committed to their work responsibilities and delivering for the client and the community. The team experienced zero safety incidents throughout the entire response, a massive achievement in some of the most trying conditions for any incident response provider.

CREATING VALUE FOR OUR CLIENTS

Graffiti Abatement Program

Graffiti is an eye sore and a source of constant nuisance for road users and our maintenance crews! Our VBA JV team has tackled this problem with an innovative yet simple solution - installing sensor-based, solar power lighting in graffiti prone areas to keep areas well-lit at all times.

When activated by movement, these lights beam brightly down on the targeted area to deter unwanted visitors. Our trial area for this solution was vandalised every two days prior and since our trial commenced, it has had only one minor vandalism.

This low cost, energy efficient solution has proved not only effective, but has saved our client a significant portion of the money our team used to spend on graffiti cleaning exercises.

DELIVERING NEW AND INNOVATIVE WAYS OF WORKING

The Litter Rake

A key driver for the VBA JV team is to provide value for money solutions utilising innovative thinking. In January 2015, we introduced the first-of-its-kind Litter Road Rake - a litter rake collection machine. It is used day and night on major arterial routes,

keeping the network clean, safe and easy to navigate.

The Litter Road Rake's introduction has resulted in significant safety and productivity improvements, including the collection of more litter from a larger area in less time.

A staggering 10,276m³ of litter has been collected from as of the end of 2018. That's equivalent to filling over three Olympic sized swimming pools!



 **3,796**
pieces of road
furniture installed

1,316,110
hours LTI free

 **573,561m²**
pavement
seal/reseal

 **74,665t**
asphalt laid



 **303,526m²**
pavement repairs





ENGAGING WITH THE LOCAL COMMUNITY

The VBA JV strives to engage with the local road construction industry by creating and maintaining local jobs. To date, we have inducted more than 3,000 subcontractors, and the majority of the project's contract and permanent staff are also local to the area. Traineeships have also been provided to students from local schools, through offering the ability to achieve a Certificate II in Civil Construction.

“I love working with the VBA JV. It's been great fun going out with the team and learning new things.”
– Jarrod Acai, Trainee, VBA JV

The team is actively involved with local not-for-profit organisations such as the Beacon Foundation, which aims to provide a brighter future for youth in the local communities by connecting industry, community and schools.

“The program has successfully got me ‘work ready’. It helped ground me in reality, teaching me skills to market myself, look presentable and take opportunities.”
– Feedback from a student on the program (August 2017)

The RAMC team participates in events that educate students about the diverse nature of jobs in the world, inspiring them to consider what career type they'd like to pursue, and assure them that there are many paths to take to reach their goals.

Our team bring their knowledge and skills from the project and apply them to the school's curriculum, such as providing a lesson plan focused on the daily maths problems faced by the project's staff. For example, issues that arise when resurfacing a road.

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