



## **AUSROCKS NEWSLETTER No 17 Summer 2014/2015**

### **Welcome....**

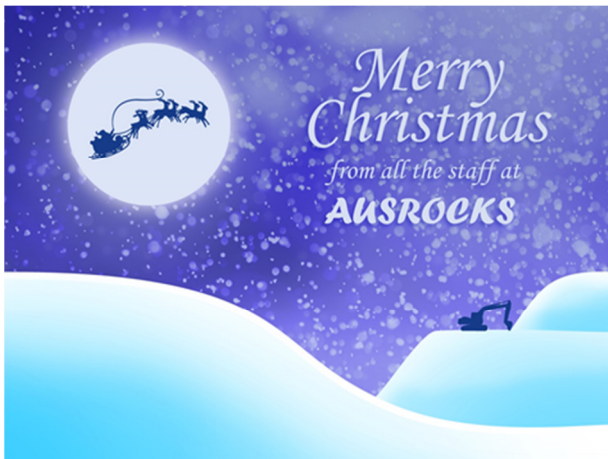
to the Ausrocks Summer 2014/2015 Newsletter. Well Christmas is around again and 2015 is the start of the sixth year for Ausrocks Consulting Mining Engineers. Ausrocks, through its employees, Associates and friends have made a number of achievements in the past year, notably:

- The establishment of the Caged Rock gabion business.
- Attainment of RPEQ status by Adebayo Bayooke.
- Providing Expert Opinion on a number of quarry projects.
- Preparation of a number of Quarry Development Plans (QDPs) in Queensland and New South Wales...
- Preparation of Materials Quality Management Plans (MQMPs) for DTMR certification of quarries.
- Assistance to the University of Queensland as Supervisors for three Mining Research Projects.
- Completion of two major Development Applications for large quarries in the Gympie and Gladstone Areas.
- A number of Planning Applications for storage facilities, sub-divisions and re-configuring lots.
- Development of the Ausrocks workshop and office facility at Sumner Park.
- Successfully working with major Australian Consultants on Industrial Minerals and Quarry valuations for the Singapore Stock Exchange.

During 2014 we have gone over to the Reckon accounting system thanks to input from Nick Virisheff, our Technical Officer.

2015 offers new challenges for Ausrocks with the bedding down of the new Queensland government Green Tape Legislation, the new Planning Act 2015 (early March 2015) and hopefully some long-awaited infrastructure projects will get underway.

**And so its.....**



**And...may we all have a successful year in 2015.**

**Regards, Alan Robertson, Director Mob 0402 445 418**

The Ausrocks Office will be closed on Wednesday 24<sup>th</sup> Dec, re-opening on Monday 5<sup>th</sup> January 2015. Any enquiries during this period can be directed to Carl Morandy:

Telephone: 0404778 394  
Email: carl.morandy@ausrocks.com.au

### **Update – Ausrocks Gabions**

We have also been letting our imaginations run wild with Gabion designs for backyard landscaping purposes, and now we are proud to present this division of our business as "Caged Rock".



Recent gabion developments by Ausrocks include:

- Development of a planter gabion which takes large plants.
- Development of a fire pit based on the planter gabion. The pit has a removable internal steel liner.
- The prototype "face gabion" which has a "false front" which allows placement of good quality rock in the front of the gabion and rubble material to be placed at the rear, thus saving the cost of the gabion rock material in the areas that cannot be seen.



If you want to see some of our gabion products or discuss your requirements, do not hesitate to visit the Ausrocks office. Ring 07 3376 6839 and ask for Alan or Nick.

### **Gabion Erosion & Sediment Control**

Gabions have a multitude of uses including for Erosion and Sediment Control. Gabions have been used to stabilise creek banks and prevent erosion but they can also be used on the Mine or Quarry site as a means of controlling runoff, reducing sediment load and protecting stormwater outlets from erosion. They can also be used to construct essential stormwater infrastructure such as this sediment basin on a steep site.



Photograph 6-3 Type C gabion sediment basin on steep terrain, later converted to a permanent facility.

Sunshine Coast Regional Council 'Manual for Erosion & Sediment Control' Version 1.2, November 2008.

For more information on use of gabions for stormwater management, please contact Carl Morandy at Ausrocks on (07) 3376 6839.

## “Clever Innovation in the Mining and Quarrying Industry”

### Tunnelling News

Two technical papers were presented by Ausrocks in 2014. They were:

- A paper entitled *Commercial Underground Space-Planned Development for the Future*, written and presented at the 15<sup>th</sup> Australasian Tunnelling Conference at Sydney in September 2014.
- A paper entitled *Geotechnical Challenges for Underground Commercial Space and Quarrying in Australia*, written by Adebayo Bayooke and Alan Robertson and presented by Alan Robertson at AusRock 2014: Third Australian Ground Control in Mining Conference at Sydney in November 2014.

Both papers stressed the importance that underground space planning plays in the long term planning and development of our major cities and they created a lot of discussion and interest amongst attendees at the conferences. Should you require copies of the papers Email Alan Robertson at [alan.robertson@ausrocks.com.au](mailto:alan.robertson@ausrocks.com.au)

### Great App from the Geological Society of Australia

Our good friend John Siemon has been busy working on a geological App for the City of Brisbane. The App gives the history and details of city buildings and also provides information on the site geology and the source of dimension stone where applicable. It is called the Brisbane History in Stone and Brick App and has been compiled by John and Friedrich von Gnielinski, configured through Global GBM Enterprise Mobility and can be downloaded FREE from the Google App Store and the Apple App Store (search for Geotourism Brisbane).



A major advance in underground space planning for Brisbane would be the development of geological and geotechnical overlays for the Brisbane City Plan, along with 3 D plans of the existing below - ground excavations so that future underground planning can be facilitated. This new App will assist in the process. The process also requires major consulting companies to release geotechnical data from major infrastructure projects in Brisbane to allow the compilation of a central database. This is the case in other major capital cities and it should apply in Brisbane.

### Train Unloader Means Flexibility for the Rail Industry

Ausrocks has recently been involved with a number of quarry projects that involve rail handling of material from the quarry site. The concept of ballast unloading on main lines overcomes a lot of problems with the multiple material transfers associated with inflexible rail systems. The US designed Ashross RUM rail car mobile unloading machine is completely portable and requires no jobsite improvements. All that is required is approximately 40m of level straight line and the Ashross rail unloader which is fully-self powered with a six cylinder diesel engine and can be positioned by walking itself onto the rail by a single operator. Bottom dump rail cars easily position over the RUM and discharge in minutes.



Unloader being transported

Unloader set up for Discharge

For more details contact Graham Cooney at Mobile Conveying Services regarding hire or sales of Ashross equipment.  
[enquiries@mobileconveyors.com.au](mailto:enquiries@mobileconveyors.com.au) Mob 0404 157 948

Web: [www.mobileconveyors.com.au](http://www.mobileconveyors.com.au)

### Rally Car Takes Shape



As mentioned in the last Newsletter, the Renault 10 project vehicle is being prepared for the Endeavour Rally in 2016. We are making progress with all of the bodywork completed which has included MIG welding of the rust holes, soundproofing and internal painting. Watch this space for more developments as the re-assembly takes place.

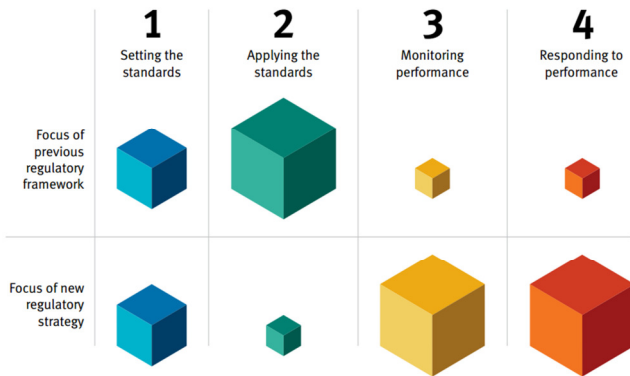
### Ausrocks Team Visits Central Queensland

In late November the Ausrocks team visited a number of Quarries in Central Queensland. Wendy Wood, Carl Morandy, Associate Geologist Phill Mackenzie and Alan Robertson visited Central Queensland for 3 days to look at a number of quarries in the area and familiarize themselves with the potential rock resources and associated planning issues for the Galilee Basin's Adani project and associated infrastructure. Quarries and quarry managers visited included Emerald Quarries (Terry Peisker), Fairfield Quarry (Brad Verhey), Shepton Quarry (Bob Ware) Borrow Pit 7 and Frankfield. Towns visited included Rockhampton, Emerald, Clermont and Alpha.



## New EHP Regulatory Strategy – What does it mean for Quarry Operators in QLD?

In Mid 2014 EHP released a document titled 'Regulatory Strategy Outline' which provided a long-term vision for the Department of Environmental and Heritage Protection's (EHP) regulatory, compliance and enforcement activities. In general the changes are intended to reduce the time and energy spent on assessing applications, so that increased effort can be spent on compliance and enforcement. The figure below is taken from the outline document, the boxes represent the time and energy expended on each activity.



So what does this mean for the average quarry operator in QLD? More emphasis will need to be placed on adhering to approval conditions prior to commencement of operations and throughout the life of the quarry. Most approvals list a number of additional studies/management plans (such as a flood management plan, erosion and sediment control plan, rehabilitation plan, waste management plan, environmental auditing etc) that need to be undertaken prior to operations commencing.

EHP will conduct regular compliance audits of your EA conditions and will take action if non-compliance is sited. It is therefore suggested that you get familiar with your approval conditions and ensure you are doing your best to maintain compliance. Ausrocks have a significant list of capabilities and can assist with most EHP requirements, where work is outside of our scope we engage known associates to assist, lowering the risk for the client. These Ausrocks capabilities include water sampling, dust monitoring, surveying of disturbed areas and erosion assessment. For more information, please contact Wendy or Carl at Ausrocks.



The Ausrocks Team with Bob Ware at Shepton Quarry

## Interesting Signs and Safety Procedures



Sticker of the year- thanks to the Institute of Quarrying



We got this one off the Internet

If you have a funny sign or a photo of a involving safety (or if it is just funny) that is just not quite right or a good sticker, please send to:

[Alan.Robertson@ausrocks.com.au](mailto:Alan.Robertson@ausrocks.com.au)

### For more information:

Visit: 17/71 Jijaws St, Sumner Park, Q4074

Ring: (Office Hours) 07 3376 6839

Ring: (After Hours) 0402 445 418

Email: [alan.robertson@ausrocks.com.au](mailto:alan.robertson@ausrocks.com.au)

Our Web-site is: [www.ausrocks.com.au](http://www.ausrocks.com.au)

For Town Planning enquiries, please contact Wendy Wood at 32 Cottman St Buderim Q4556:

Mobile: 0418 405 006

Email: [wendy.wood@ausrocks.com.au](mailto:wendy.wood@ausrocks.com.au)

### JUST KIDDING!

Q: What is the difference between a geologist and a pizza?

A: A pizza can feed a family of four.



# AUSROCKS PTY LTD

*“Gabions - Clever Innovation in the Mining and Quarrying Industry”*

## AUSROCKS GABION PROFILES



Large Seat Gabion



Small Garden Gabions



Standard Gabion Seat 1000mm x 600mm



Planter Gabion



Forkliftable Gabion



Planter and Seat Gabion