

QuarryNZ Conference, Hamilton 16 July 2015

MinEx – Safe Mines and Quarries

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Do we need a mining & quarry H&S organisation?

- Pressure on quarry sector from government and the public post Pike River
- The need to show leadership and better safety performance
- The new MinEx: a partnership between the mining & quarry sectors including the union (EPMU)
 - Worked with MBIE in 2013 for fit for purpose regulations
 - Working with WorkSafe for fit for purpose support to the regulations
 - Working with industry to improve H&S

Has MinEx finished what it was set up to achieve?

- Safe mines : Safe workers came out in May 2013
- Fit for purpose regulations Dec 2013 – excludes quarry & alluvials
- But – requires some amendments & these are required now
- Working actively with WorkSafe & Government but there is resistance
- Regulations will be supported by codes & guidelines
- The codes & guidelines programme consists of 14 key documents – 2 completed, 3 underway leaving 9 yet to commence

Where does the quarry sector fit in all of this?

- Numbers dominated by small operations with less well developed H&S systems
- Many small quarry operators are not engaged with industry organisations
- Many small quarry operators have not notified WorkSafe of their statutory manager appointments (section 24)
- There are no sector specific regulations applying to the quarry sector
- H&S performance is far from satisfactory, and is unacceptably below that of the rest of the mining industry

What does all of this mean?

- The job hasn't been completed
- Regulations, code & guideline work has a finite end
- Improving H&S performance in the industry is a long term task
- All sectors of the industry need to work on H&S improvement
- Straterra supports MinEx continuing to work on H&S

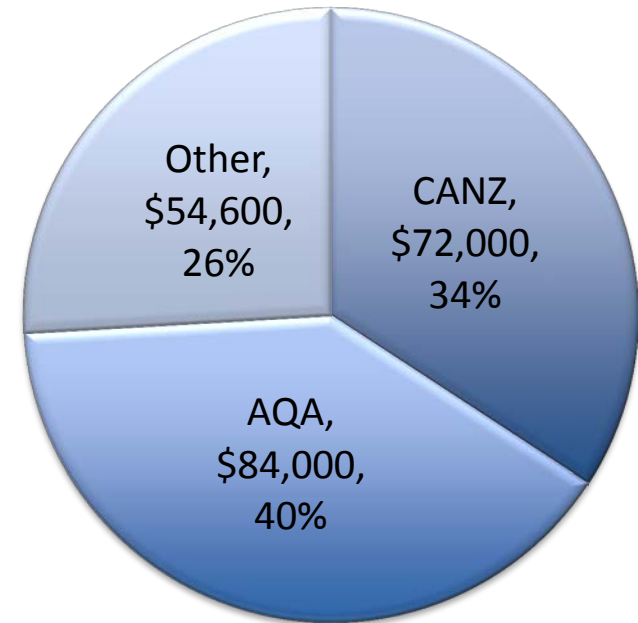
MinEx resources & funding

➤ MinEx's budget is currently \$210,000

➤ For that you get;

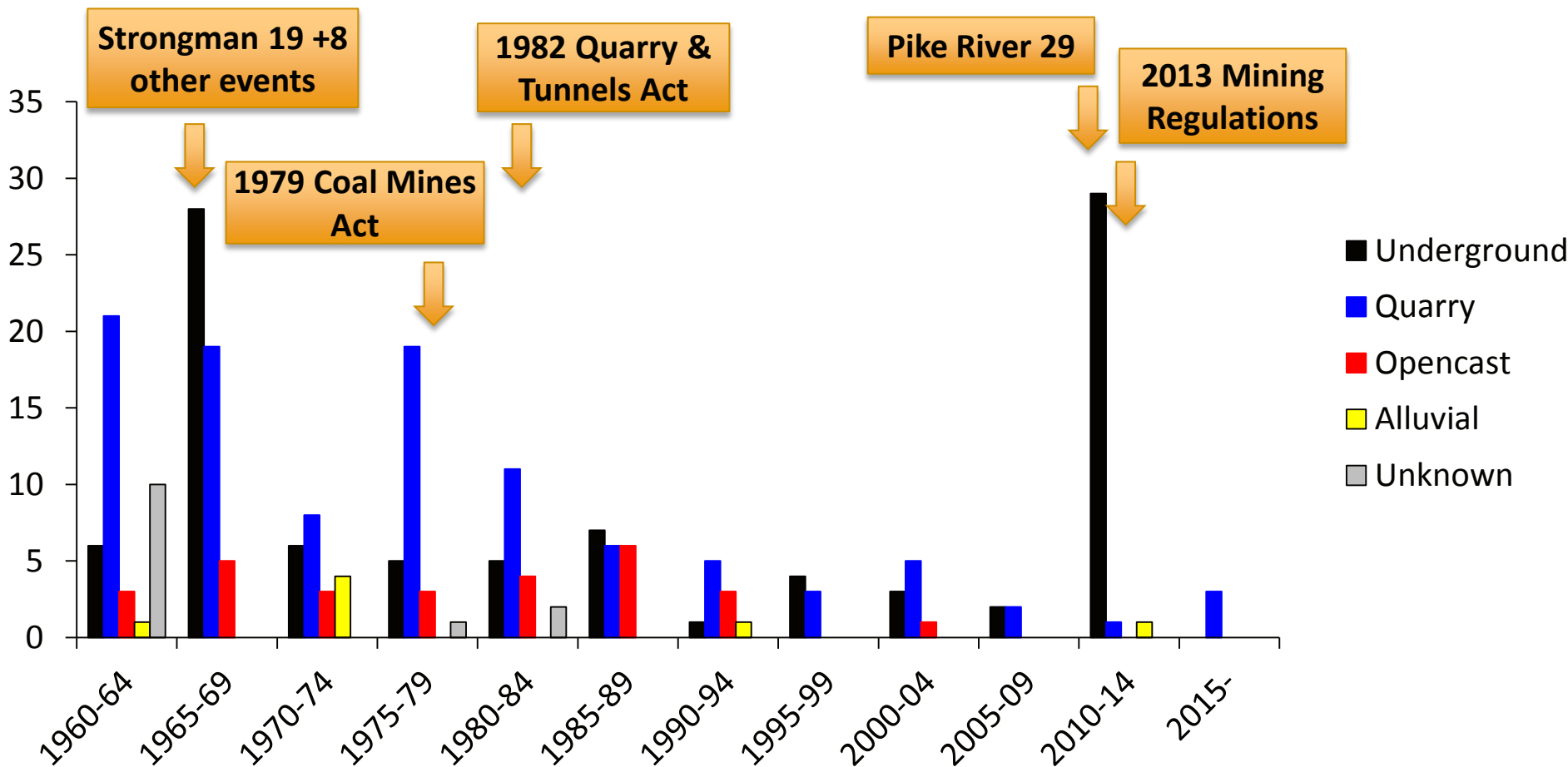
- Advocacy
- Political & industry contacts
- Policy advice
- Technical advice
- Membership services
- H&S performance reporting
- Accounting support.

➤ MinEx is much more than just the contract CEO



Industry H&S performance

New Zealand Mining Industry Fatalities since 1960 by Sector

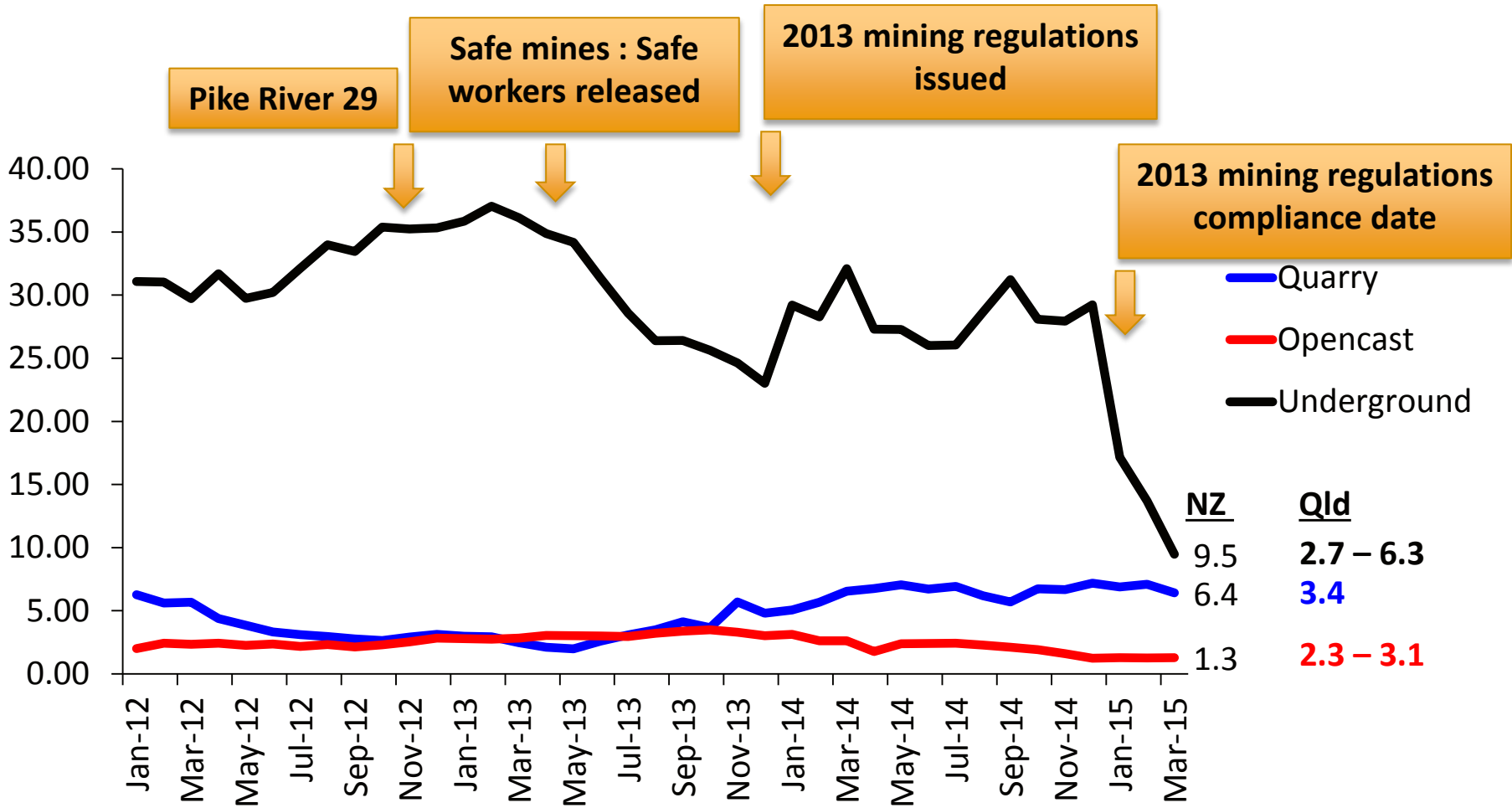


Source: The International mining fatality database at:

http://www.dpi.nsw.gov.au/data/assets/pdf_file/0009/182484/International-Mining-Fatality-Database-project-report.pdf

Looking at LTI rates since 2012

LTI rolling 12 month frequency rate (per 1M hrs)



NZ data source: MinEx H&S statistics

Queensland data source: <https://www.business.qld.gov.au/industry/mining/safety-health/health/accidents-incidents/safety-performance-reports-statistics>



3 quarry sector fatalities in 3 months

- All in small operations
- None were engaged
- Two are specifically regulated under the 2013 regulations:
 - Ground instability
 - Roads and other vehicle operating areas
- The other was a well known generic hazard:
 - Equipment guarding

Clearly we need to do more on improvement

- A key issue is a lack of engagement
- What is MinEx & WorkSafe doing to address this?:
 - Current MinEx/WorkSafe Extractive forums
 - Flush out the non-engaged
 - 2 held in Greymouth (100) & Tauranga (70)
 - More scheduled for Alexandra (5 August) , Whangarei (15 Sept), Ashburton, Invercargill during 2015
 - Further round in 2016

Training has a key role to play in H&S improvement

- MinEx involved in the extractives qualification review
- There has been plenty of cooperation between all involved in the process & consultation on outcomes
- The process was industry driven
- There is more work to do on training material and trainer competency
- MinEx will assist trainers to fill courses in the extra CoC competencies

The quarries are different issue

- Quarries can be hard rock, alluvial gravel, sand, limestone, clay
- Mines can be opencast mines - hard rock gold, hard rock coal
- They can be underground mines - metalliferous, gassy coal, non-gassy coal
- The issue for the regulator is: what are the processes that are different?
- We faced the same issues with underground coal vs underground metalliferous vs opencast mines but these were resolved
- Whatever the mine or quarry extraction method, the fundamental base for any regulations will be risk management

Why does MinEx advocate quarry & alluvial sector inclusion under the 2013 regulations?

- » MinEx's objective is to improve the health and safety performance of the entire mining and quarry industry:
 - Consistency of approach where the hazards & risks are common
 - Makes sharing resources for improvement possible
 - Makes enforcement consistent across sectors
- » The 2013 regulations need amending to accommodate quarry/alluvial sectors
- » The Chief Inspector supports MinEx's call for the quarry sector to be included within the scope of the 2013 regulations

Structure of the 2013 regulations

» Those that apply to all mines:

- Parts 1 to 4 - Safety-critical roles & safety management systems
- Part 5 - Worker participation systems
- Part 6 - Specific duties in all mining operations
 - Ground control, roads, tips, explosives, conveyors, emergency, health monitoring

» Those that apply only to underground and tunnelling operations – Part 7

» Those that apply only to underground coal mining operations – Part 8

What sections need amending?

- MinEx worked with AQA in developing the amendments to accommodate the quarry & alluvial sectors

- The role of the SSE
 - Amend regulation 9 to create an SSE (Surface Mines & Quarries)

 - Allow the BoE to set suitable competencies which could be:
 - 7142 – regulations

 - 26856 – risk management

 - Level 5 safety management systems unit

What sections need amending?

- The mechanical & electrical superintendents
 - These should apply to underground mines only

- The Supervisor
 - Allow the BoE to set competency
 - Competency should be lower than the B grade
 - Supervisor should be supervised by an A grade

- Notification & reporting - amend mine plan submittal requirements for small alluvial river based operations

What sections need amending?

- Notification on ceasing operations – amend for small alluvial river based operations as too onerous
- Untrained workers – amend to require adequate supervision rather than be accompanied
- Transition provisions will be required to be extended for any new sectors