

Quarry & Gravel Pits Roles and Responsibilities

Trevor Brown

Deputy Chief Inspector of Mines (MMQ)

Mineral Mines & Quarries Inspectorate



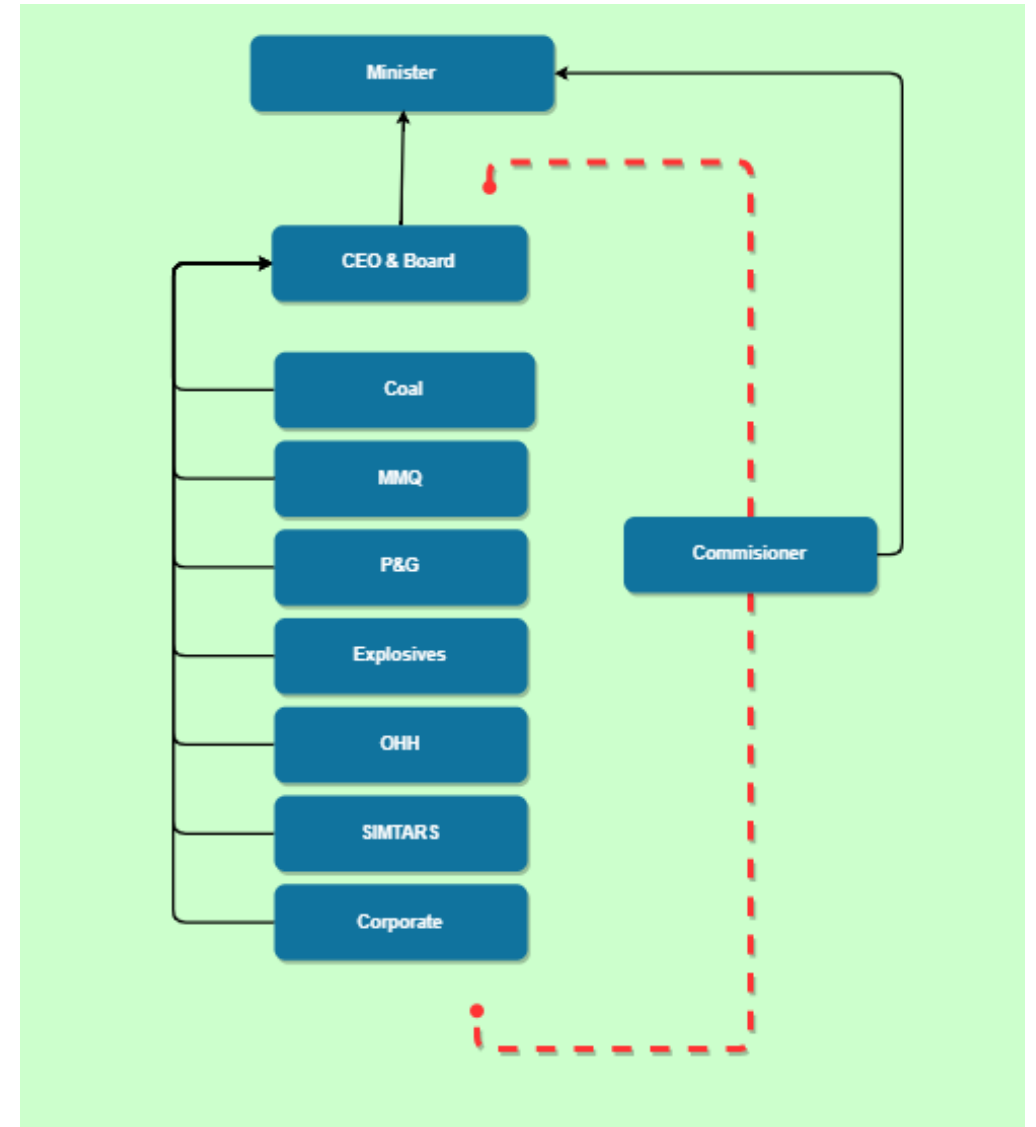
Resources Safety & Health
Queensland

Introduction

- Who is RSHQ
- Mines, Quarries, Gravel Pits and Sand Extraction
- Obligations & Responsibilities
- Inspectorates focus

Who is RSHQ

- Statutory Body
- Formed on 01 July 2020
- Reports directly to Minister
- Commissioner
- 4 regulators, 2 service & Corporate
 - MMQ
 - Mines & Quarries



Mines, Quarries, Gravel Pits and Sand Extraction

Operations

- Exploration
- Winning
- Winning & Treating

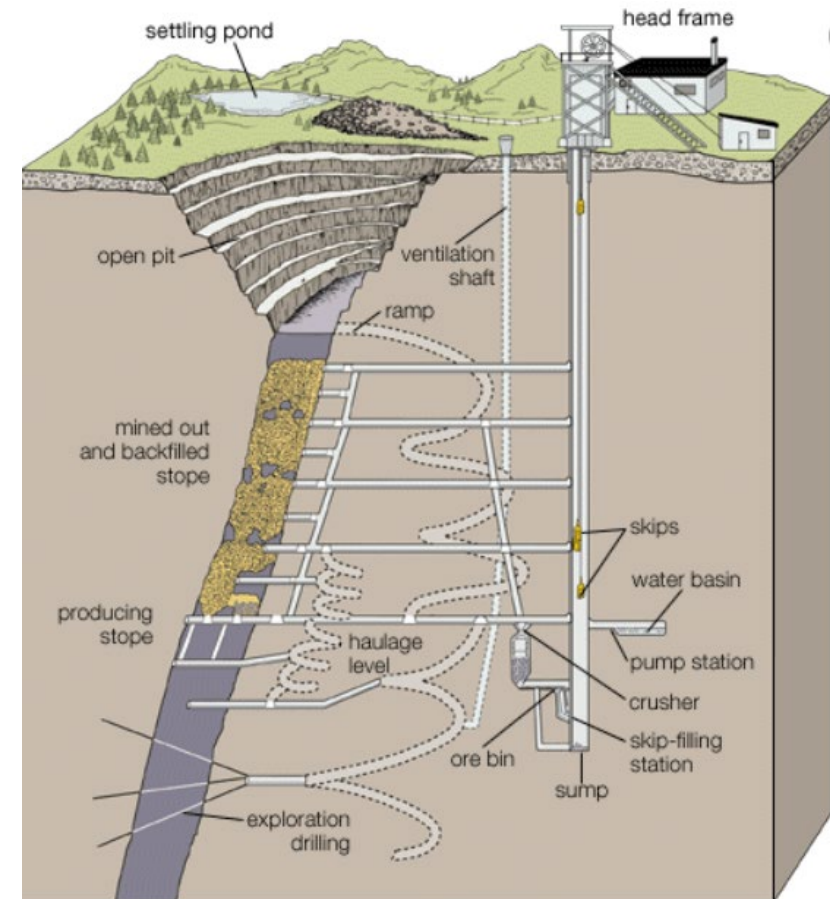
Minerals or Hard Rock

Extracting **Loading** Transporting
crushing concentrating **storing** smelting
electrowinning leaching **processing** disposal
construction erecting maintaining
demolishing dams **excavations** buildings
machinery equipment **rehabilitation**

Mines, Quarries, Gravel Pits and Sand Extraction

Mine

Operations on a Mining Tenure (Minerals)



Mines, Quarries, Gravel Pits and Sand Extraction

Quarry

Operations to produce construction or Road building material



Mines, Quarries, Gravel Pits and Sand Extraction

Not a Quarry

Operations are for construction work
(Definition WHSR 2011)

If quarry material is used at the
construction site and the quarry is at the
site or adjoining/contiguous (not transport off
site or no public access between extraction and use)



Mines, Quarries, Gravel Pits and Sand Extraction

Not a Quarry

Gravel Pits/Borrow pits

If gravel is free dug and not crushed (may be ripped up for extraction but no use of explosives)



Mines, Quarries, Gravel Pits and Sand Extraction

Not a Quarry

Sand Extraction

If sand is free dug from a river and not crushed



Obligations & Responsibilities

Mines & Quarries

Web links

- Mining and Quarrying Safety and Health Act 1999
- Mining and Quarrying Safety and Health Regulations 2017


<https://www.legislation.qld.gov.au/view/html/inforce/current/act-1999-040>

<https://www.legislation.qld.gov.au/view/html/inforce/current/sl-2017-0166>

Obligations & Responsibilities

Notifications

- Who is Operator
 - Corporation
- Who will be Site Senior Executive (SSE)
- Name and Description of Quarry
- Facility Description

 MINING AND QUARRYING SAFETY & HEALTH ACT 1999 (MQSHA)

NOTIFICATION OF APPOINTMENT OF A SITE SENIOR EXECUTIVE

The Operator (Name of Operator)
for the mine known as (Mine Name), and as detailed below;

DETAILS OF THE MINE (as defined in MQSHA, s8)	
MINE IDENTIFICATION NUMBER:	MI
DESCRIPTION: Provide a description of the land comprising the mine. eg the lot(s) on plan(s) (or parts thereof), the mine's boundary, preferably by attaching a plan or aerial photo showing the boundary (including relevant co-ordinates), tenure details	
What is the expected maximum number of workers?	

Has appointed the following person as the Site Senior Executive:

DETAILS OF THE SITE SENIOR EXECUTIVE (SSE) (as defined in MQSHA, s. 22, 52)	
NAME:	
TYPE OF APPOINTMENT: (Tick whichever is applicable)	
Permanent <input type="checkbox"/>	Start date:
Acting * <input type="checkbox"/>	Start date: End date:
CONTACT DETAILS:	Mobile: Phone:
	Direct Email:
	Residential Address: (where you reside not place of employment)
	Residential Postal Address: (if different from residential address)

**Every operating mine must have a permanent SSE. The "Acting SSE" is a person appointed as SSE during the temporary absence of the permanent SSE (MQSHA, s52). The Acting SSE is subject to the obligations of the permanent SSE for the period stated in this notification. An SSE or "Acting SSE" must have the competencies prescribed by MSHAC to be appointed.*

As the Operator, I (Print name) confirm that the above named person has:

- been made aware that they have been appointed as the SSE for the nominated mine; and
- the person holds the competencies as prescribed by the Mining and Quarrying Safety and Health Advisory Committee; and
- if there are more than 10 workers that they have the correct Site Senior Executive Notice.

Signed: Date:

Name: Position:


South Region GPO Box 1321 BRISBANE Q 4001 P (07) 3330 4272 stmines@rshq.qld.gov.au	North Region PO BOX 22 TOWNSVILLE Q 4810 P (07) 4447 9248 tsvmines@rshq.qld.gov.au	North West Region PO BOX 959 MOUNT ISA DC Q 4825 P (07) 4745 4114 isamines@rshq.qld.gov.au
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Obligations & Responsibilities

Key Obligation Holders

- Operator
- Officers of Corporations
- SSE
- Workers
- Contractors

 MINING AND QUARRYING SAFETY & HEALTH ACT 1999 (MQSHA)

NOTIFICATION OF APPOINTMENT OF A SITE SENIOR EXECUTIVE

The Operator (Name of Operator)
for the mine known as (Mine Name), and as detailed below;

DETAILS OF THE MINE (as defined in MQSHA, s9)	
MINE IDENTIFICATION NUMBER:	MI
DESCRIPTION: Provide a description of the land comprising the mine. eg the lot(s) on plan(s) (or parts thereof), the mine's boundary, preferably by attaching a plan or aerial photo showing the boundary (including relevant co-ordinates), tenure details	
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South Region GPO Box 1321 BRISBANE Q 4001 P (07) 3350 4272 sthmines@rshq.qld.gov.au	North Region PO BOX 22 TOWNSVILLE Q 4810 P (07) 4447 9248 tsvmines@rshq.qld.gov.au	North West Region PO BOX 959 MOUNT ISA DC Q 4825 P (07) 4745 4114 isamines@rshq.qld.gov.au
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Obligations & Responsibilities

Operator

- Provide a safe place of work and safe plant
- Appoint a competent SSE
- Ensure SSE has an effective SHMS
- Provide adequate resources



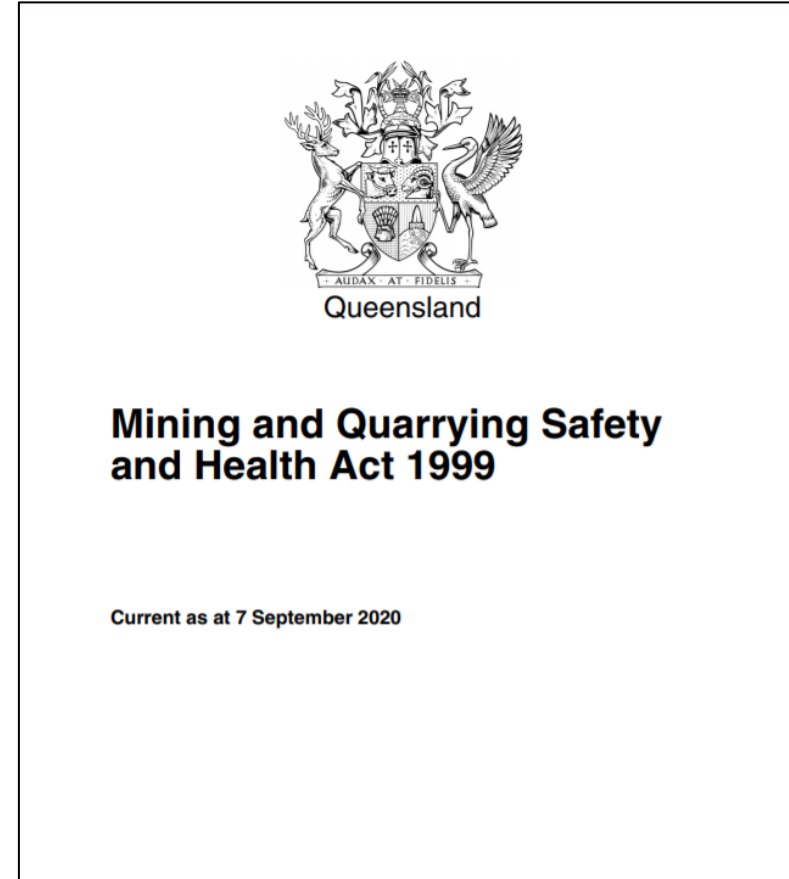
Mining and Quarrying Safety and Health Act 1999

Current as at 7 September 2020

Obligations & Responsibilities

Officers of Corporations

- Due diligence
- Keep up to date
- Understand
- resources
 - Verify their use
- Respond



Obligations & Responsibilities

SSE

- Develop & implement SHMS
 - Management Structure
- Give contractors information
- Review & integrate contractor S&H management plan (supervise and monitor)
- Report matters to inspectorate

Planning **organisation** leadership
Control Critical work supervision
Competencies monitoring review
Working environment **Procedures**
Equipment installations
Inspections Contractor Management
Inductions **Training** **Risk Management**
Incident Investigation
Management Structure Reporting

Obligations & Responsibilities

Contractors

- Complies with MQSHA
- Complies to Quarries SHMS
- Give SSE a S&H management plan
- Change plan to ensure it can be integrated into SHMS



Obligations & Responsibilities

Worker

- Complies with MQSHA
- Complies to Quarries SHMS
- Share information
- Reasonable action
- Control, supervise or lead safely
- Participate in Risk management
- Comply with instructions
- Be fit for work
- Don't do anything wilfully or reckless

MMMQ Focus Areas

- SAFR reduction in quarry sector
- HPI reporting, investigation quality and control effectiveness
- Operator effectiveness audits

Focus Area - SAFR reduction in quarry sector

- SAFR in quarry sector is significantly higher than elsewhere in industry
- Correlation between SA and HPI data suggests underreporting of HPIs
- What are we focused on:
 - Attending sites of serious accidents
 - Improving SA information sharing
 - Reinforcing and supporting an industry incident reporting culture

Focus Area - Investigations and control effectiveness

- Investigation quality has a direct impact on effectiveness of learning
- What are we focused on:
 - Ensure SHMS provides for incident reporting and investigation
 - Improving investigation quality, control effectiveness and implementation

Focus Areas - Operator effectiveness audits

- Operators audits are important to ensure that site SHMS are developed, adequately resourced and effective
- What are we focused on:
 - Assessing how operators audits are confirming the effectiveness of the site SHMS
 - Ensure that identified improvements are resourced and implemented

MMQ Health Regulation amendments

- Regulations require respiratory health surveillance for mineral mine and quarry workers, to include chest x-ray and spirometry
- QGL04 Guideline for respiratory health surveillance of workers in Queensland mineral mines and quarries has been developed
- SSEs have until 1 September 2022 to ensure workers have undergone an examination that meets the new requirements.
- Further information and support can be found online at <https://www.rshq.qld.gov.au/miners-health-matters>

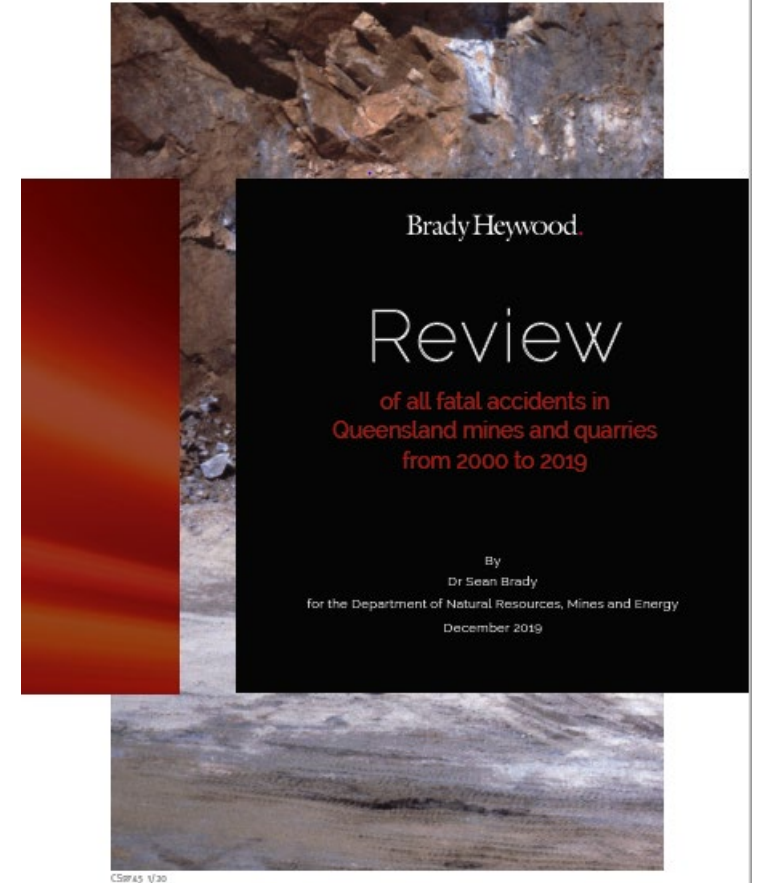
Brady Heywood Review – Summary of Regulator Recommendations

Recommendation 7: Collate, analyse, identify, and disseminating the lessons learned from the incident and fatality data

Recommendation 8: Develop a simplified incident reporting system that encourages and supports incident reporting

Recommendation 10: Adopt the Serious Accident Frequency Rate as a measure of safety in the industry.

Recommendation 11: Utilise the High Potential Incident Frequency Rate as a measure of reporting culture in the industry.



My Contact Details

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