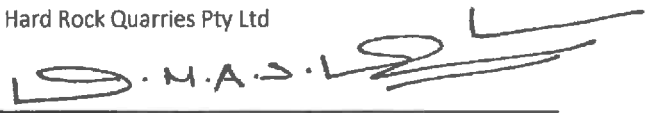


## Quarry Registration Certificate

<b>Certificate Number</b>	2017-103	<b>Expiry Date</b>	12 September 2019
<b>TMR Quarry Reference</b>	RQ168	<b>Issue Date</b>	12 September 2017
<b>Quarry Name</b>	Hard Rock Quarries (Yerra - White Pit)		
<b>Assigned Overall Testing Frequency Level</b>	Low		
<b>Real Property Location</b>	Lot 192 on L37269 and Lot 239 on L37233.		
<b>Quarry Address</b>	776 Yerra Road, Yerra QLD 4650		
<b>Local Government</b>	Fraser Coast Regional Council		
<b>Latitude</b>	-25.598	<b>Longitude</b>	152.530
<b>Rock/Material Types</b>	Rhyodacite		
<b>Rock Material Group</b>	Intermediate Igneous		
<b>Nominated Products:</b>	Unbound Paving Material (Types 2 & 3)		

**Comments**

1. The test reports submitted indicate variable Washington Degradation factor values, some are even below the TMR specification limits.
2. The petrographic report submitted indicates the source rock has up to 9% sericite, 7% calcite, 4% chlorite and 1% geothite.

<b>Applicant Name</b>	Hard Rock Quarries Pty Ltd
<b>Applicant Address</b>	PO Box 1217, Maryborough QLD 4650
<b>Quarry Operator</b>	Hard Rock Quarries Pty Ltd
<b>Approvers Signature</b>	

*Manager (Quarry Registrations System)*

**Notes:**

1. This registration certificate should be read in conjunction with the attached Quarry Registration Certificate Testing Frequency Schedule.
2. Departmental Quarry Registration indicates the following:
  - The source rock properties submitted are generally superior to those required in the relevant departmental technical specifications.
  - The quarry operator will at a minimum, carry out regular source rock testing at frequency levels listed on the attached registered Testing Frequency Schedule.
3. Quarry Registration does not guarantee ongoing product with relevant departmental technical specifications. This is because product properties can also be influenced by many day to day operational factors. These include extraction and production procedures, transportation and construction processes as well as source rock variability.
4. TMR Quarry Registration is conditional on quarry compliance with all relevant Federal, State and Local Government legislation.

## Quarry Registration Certificate Testing Frequency Schedule

Quarry Name:	Hardrock Quarries (Yerra) White Pit	TMR Quarry Ref No:	RQ168
Quarry Certificate No:	2017-103	Approved by:	Manager (QRS)
Issue Date:	12/09/2017	Expiry Date:	12/09/2019

Approved Overall Testing Frequency Matrix Level: **LOW**

Relevant Specifications	Nominated Product <i>(Refer Note 1)</i>	Source Rock Test Property	Suggested Testing Frequency Level <i>(Refer Note 2)</i>
MRTS05/08 Unbound Paving Material	Type 2	Petrographic analysis	LOW
		Wet ten percent fines value	LOW
		Wet/dry strength variation	LOW
		Degradation factor	DEFAULT
	Type 3	Petrographic analysis	LOW
		Wet ten percent fines value	LOW

**Note 1:** Detailed source rock property testing frequency tables for nominated products are listed in QRS4: Assigning Quarry- Specific Testing Frequencies for Source Rock Tests and detailed product property tests are identified within each respective TMR Technical Specification.

**Note 2:** Testing frequency levels can be varied by application. To ensure this attachment contains the most recent levels, contact TMR Manager (QRS).