

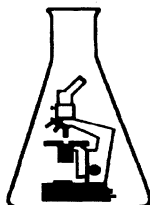
GEOCHEMPET SERVICES, BRISBANE

Geochempet Services

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PETROLOGICAL and GEOCHEMICAL CONSULTANTS

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**SECONDARY MINERAL COUNT
(AS1141.26)
ON AN AGGREGATE SAMPLE (144626)
FROM OBERON QUARRY**

prepared for

**BORAL RESOURCES (NSW) PTY LTD
MATERIALS TECHNICAL SERVICES**

Order Number: 5133930

Invoice Number:

Client Ref: George Calvar

Issued By:

L Pearson B.Sc. (Hons)
6 September 2013

September, 2013

Bo130902smc

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GEOCHEMPET SERVICES, BRISBANE

SECONDARY MINERAL CONTENT USING A PETROLOGICAL MICROSCOPE*

Sample ID: 144626
Lot Number: 10
Date Sampled: 26/07/13
Product Type: aggregate
Sample Loc: 2000T. S/P
Sample Category: APS 20
Source: Oberon Quarry

Rock type: Olivine Basalt

Sect. No.	Primary Minerals		Secondary Minerals			Voids		(M) Total Min. Count	(T) Total Point Count
	(P) Point	%	(S) Points	%	Av. %	(VC) Points	%	P+S	
A	495	82.5	105	17.5	13.4%	0	0	600	600
B	500	83.3	100	17.7		0	0	600	600
C	569	94.8	31	5.2		0	0	600	600

*The determination has been made using the Test Method described in AS 1141.26.

Section A contained 56 aggregate fragments

Section B contained 23 aggregate fragments

Section C contained 16 aggregate fragments

The rock is considered to be variably amygdaloidal, olivine basalt, a basic volcanic rock. Its primary composition involves plagioclase feldspar, clinopyroxene, olivine, opaque oxide, <1% enstatite and a trace of apatite, zeolite and prehnite. Secondary minerals amount to 13.4%.

Description of the secondary minerals:

In detail, the secondary minerals comprise:

- 8.0% yellow to brown clay of smectite style in small patches, after olivine and in amygdules
- 4.7% colourless and green clay of smectite style in amygdules and after olivine and feldspar
- 0.5% zeolite in amygdules
- 0.2% iddingsite after olivine
- trace prehnite in amygdules

Operator:



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