SWEP PTY. LTD. ANALYTICAL LABORATORIES

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REPORT ON SAMPLE OF LIME

FILE NO : 2505191874 **DATE ISSUED :** 21/05/2025

CHARGENE PTY LTD
PO BOX 190

CARRICK , TAS 7291

CLIENT ID : CHA120
PHONE :

SAMPLE ID : BB DOLOMITE MAY 2025 **DATE RECEIVED :** 21/05/2025
ANALYSIS REQUIRED : Lime quality

ITEMS	ABBREVIATION	UNIT	RESULTS
Results of analysis on sample on dry weight basis:			
pH (1:5 Water)			**9.27**
Electrical Conductivity	EC	µS/cm	**245**
TOTAL CALCIUM	Ca	%	**27.29**
TOTAL MAGNESIUM	Mg	%	**5.54**
TOTAL SODIUM	Na	%	**0.025**
CALCIUM CARBONATE	$CaCO_3$	%	**68.2**
	(Calculated from Total Calcium)		
MAGNESIUM CARBONATE	$MgCO_3$	%	**19.4**
	(Calculated from Total Magnesium)		
MOISTURE CONTENT	MC	%	**0.476**
MATERIAL > 2mm		%	**1.84**
MATERIAL 1.00 - 2.00 mm		%	**20.5**
MATERIAL 0.85 - 1.00 mm		%	**4.83**
MATERIAL 0.30 - 0.85 mm		%	**28.6**
MATERIAL 0.075 - 0.30 mm		%	**21.9**
MATERIAL < 0.075mm		%	**22.3**
NEUTRALISING VALUE	NV	%	**91.3**
EFFECTIVE NEUTRALISING VALUE	ENV	%	**58.5**

Notes on Neutralising Value

Neutralising Value is a measure of the amount of acidity a material can neutralise, or in the case of lime, its total liming value. An approximation of Neutralising Value can be made by $CaCO_3$ + (2.5 x MgO).

Effective Neutralising Value is a calculated adjustment of the Neutralising Value, using the fineness of the lime. Lime retained on an 850 µm sieve (the coarser fraction) is estimated to be only 10% effective (fully utilised in the short term). Lime in the 300-850 µm sieve range (medium sized fraction) is estimated to be only 60% effective, while lime passing the 300 µm sieve (finer fraction) is estimated to be 100% effective.

Where a lime has a low Effective Neutralising Value (due to a high proportion of coarse fraction), further grinding should increase its effectiveness to change the pH.

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