

## **REPORT ON SAMPLE OF LIME**

**FILE NO**: 2510193440 **DATE ISSUED**: 30/10/2025

KAVANAGH EXCAVATION & PLUMBING P/L

ATT: EMMA KAVANAGH

P O BOX 552

WARRNAMBOOL, VIC 3280

DATE RECEIVED :

PHONE :

CLIENT ID: KAV003

23/10/2025

ANALYSIS REQUIRED : Lime quality

SAMPLE ID: LIME

ITEMS	ABBREVIATION	UNIT	RESULTS
Results of analysis on sample on dry weight basis:			
pH (1:5 Water)			9.1
Electrical Conductivity	EC	μS/cm	258
TOTAL CALCIUM	Ca	%	34.92
TOTAL MAGNESIUM	Mg	%	1.83
TOTAL SODIUM	Na	%	0.206
CALCIUM CARBONATE	CaCO <sub>3</sub>	%	87.3
	(Calculated from Total Calcium)		
MAGNESIUM CARBONATE	MgCO <sub>3</sub>	%	6.4
	(Calculated from Total Magnesium)		
MOISTURE CONTENT	MC	%	4.84
MATERIAL > 2mm		%	0.175
MATERIAL 1.00 - 2.00 mm		%	0.362
MATERIAL 0.85 - 1.00 mm		%	0.536
MATERIAL 0.30 - 0.85 mm		%	75.2
MATERIAL 0.075 - 0.30 mm		%	23.8
MATERIAL < 0.075mm		%	Nil
NEUTRALISING VALUE	NV	%	94.9
EFFECTIVE NEUTRALISING VALUE	ENV	%	65.51

## **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 limi ng value. An approximation of Neutralising Value can be made by CaCO<sub>3</sub> + (2.5 x MgO).

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