

REPORT ON SAMPLE OF LIME

FILE NO: 2510193441 DATE ISSUED: 30/10/2025

KAVANAGH EXCAVATION & PLUMBING P/L

ATT: EMMA KAVANAGH

P O BOX 552

WARRNAMBOOL, VIC 3280

SAMPLE ID: SOIL TOPPER DATE RECEIVED: 23/10/2025

ANALYSIS REQUIRED : Lime quality

ITEMS	ABBREVIATION	UNIT	RESULTS
Results of analysis on sample on dry weight basis:			
pH (1:5 Water)			9.12
Electrical Conductivity	EC	μS/cm	147
TOTAL CALCIUM	Ca	%	32.95
TOTAL MAGNESIUM	Mg	%	1.58
TOTAL SODIUM	Na	%	0.198
CALCIUM CARBONATE	CaCO ₃	%	82.4
	(Calculated from Total Calcium)		
MAGNESIUM CARBONATE	MgCO ₃	%	5.53
	(Calculated from Total Magnesium)		
MOISTURE CONTENT	MC	%	9.96
MATERIAL > 2mm		%	0.511
MATERIAL 1.00 - 2.00 mm		%	19
MATERIAL 0.85 - 1.00 mm		%	3.83
MATERIAL 0.30 - 0.85 mm		%	65.6
MATERIAL 0.075 - 0.30 mm		%	10.9
MATERIAL < 0.075mm		%	0.138
NEUTRALISING VALUE	NV	%	89
EFFECTIVE NEUTRALISING VALUE	ENV	%	46.93

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 CaCO₃ + (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 μ m sieve (the coarser fraction) is estimated to be only 10% effective (fully utilised in the short term). Lime in the 300-850 μ m sieve range (medium sized fraction) is estimated to be only 60% effective, while lime passing the 300 μ 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.

CLIENT ID: KAV003

PHONE :