SWEP PTY. LTD.
ANALYTICAL LABORATORIES
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REPORT ON SAMPLE OF LIME

FILE NO : 1706127556

QUALTEST LABORATORY (NSW) P/L
ATT: DANE CULLEN
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WARABROOK, NSW 2304

CLIENT ID : QUA018
PHONE : 02 4968 4468

SAMPLE ID : MARTIN'S LIME 22/5/17 SUPER FINE LIME
ANALYSIS REQUIRED : Lime quality

ITEMS	ABBREVIATION	UNIT	RESULTS
Results of analysis on sample on dry weight basis:			
pH (1:5 Water)			**8.93**
Electrical Conductivity	EC	µS/cm	**192**
TOTAL CALCIUM	Ca	%	**38.2**
TOTAL MAGNESIUM	Mg	%	**0.373**
TOTAL SODIUM	Na	%	**0.02**
CALCIUM CARBONATE	$CaCO_3$	%	**95.5**
	(Calculated from Total Calcium)		
MAGNESIUM CARBONATE	$MgCO_3$	%	**1.31**
	(Calculated from Total Magnesium)		
MOISTURE CONTENT	MC	%	**0.775**
MATERIAL > 2mm		%	**0**
MATERIAL 1.00 - 2.00 mm		%	**0**
MATERIAL 0.85 - 1.00 mm		%	**2**
MATERIAL 0.30 - 0.85 mm		%	**0**
MATERIAL 0.075 - 0.30 mm		%	**37**
MATERIAL < 0.075mm		%	**61**
NEUTRALISING VALUE	NV	%	**97.05**
EFFECTIVE NEUTRALISING VALUE	ENV	%	**95.3**

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 CaCo3 + (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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