

# LIME / DOLOMITE ANALYSIS REPORT

AGENT: PENRICE QUARRY

CONTROL NO: 2020-297

CLIENT'S NAME: John Schulz

LAB NO: 5313

Sample No: L1

SAMPLE NAME: Penlime Plus 0820 A

SAMPLE RECEIVED: 31.08.20

REPORT DATE: 11.09.20

## ANALYSIS (ON AN AIR DRY BASIS)

MOISTURE			
SOLIDS		Level Found	Ideal%
CALCIUM	Ca %	<b>38.85</b>	36 - 39
EXPRESSED AS CALCIUM OXIDE	CaO %	<b>54.36</b>	
EXPRESSED AS CALCIUM CARBONATE	CaCO <sub>3</sub> %	<b>97.03</b>	90 - 98
MAGNESIUM	Mg %	<b>0.48</b>	
EXPRESSED AS MAGNESIUM OXIDE	MgO %	<b>0.79</b>	
EXPRESSED AS MAGNESIUM CARBONATE	MgCO <sub>3</sub> %	<b>1.66</b>	
EXPRESSED AS CaCO <sub>3</sub> EQUIVALENT	%	<b>1.97</b>	
TNV - TOTAL NEUTRALISING VALUE			
In Terms of CaCO <sub>3</sub>	%	<b>99</b>	90 - 100
FINENESS TEST:			
	SIEVE NO.	%	
	>850 micron	<b>0.4</b>	
	300-850 micron	<b>11.9</b>	
	<300 micron	<b>87.6</b>	
ENV - EFFECTIVE NEUTRALISING VALUE	%	<b>94</b>	65 - 80

SULFUR SO<sub>4</sub>-S% **<0.05**

KGS TOTAL **CA** PER TONNE **388.53**

KGS TOTAL **Mg** PER TONNE **4.79**

KGS TOTAL **S** PER TONNE **0**

### Comments:

\* *This is a high calcium lime indicated by the high calcium carbonate percentage.*

\* *It is also a very fine grade product as indicated by the high ENV where >> 60% will pass through a 300 micron sieve.*

\* *In conclusion, this sample is considered very high quality and ideal for use as a soil amendment for the reasons stated above.*

# LIME / DOLOMITE ANALYSIS REPORT

<b>AGENT:</b>	<b>PENRICE QUARRY</b>	<b>CONTROL NO:</b>	<b>2020-297</b>
		<b>LAB NO:</b>	<b>5314</b>
<b>CLIENT'S NAME:</b>	<b>John Schulz</b>	<b>Sample No:</b>	<b>L2</b>
		<b>SAMPLE RECEIVED:</b>	<b>31.08.20</b>
<b>SAMPLE NAME:</b>	<b>Penlime Plus 0820 B</b>	<b>REPORT DATE:</b>	<b>11.09.20</b>

## ANALYSIS (ON AN AIR DRY BASIS)

		Level Found	Ideal%
MOISTURE			
SOLIDS			
CALCIUM	Ca %	<b>39.55</b>	36 - 39
EXPRESSED AS CALCIUM OXIDE	CaO %	<b>55.34</b>	
EXPRESSED AS CALCIUM CARBONATE	CaCO <sub>3</sub> %	<b>98.76</b>	90 - 98
MAGNESIUM	Mg %	<b>0.33</b>	
EXPRESSED AS MAGNESIUM OXIDE	MgO %	<b>0.55</b>	
EXPRESSED AS MAGNESIUM CARBONATE	MgCO <sub>3</sub> %	<b>1.15</b>	
EXPRESSED AS CaCO <sub>3</sub> EQUIVALENT	%	<b>1.36</b>	
TNV - TOTAL NEUTRALISING VALUE			
In Terms of CaCO <sub>3</sub>	%	<b>100</b>	90 - 100
FINENESS TEST:			
	SIEVE NO. %		
	>850 micron	<b>0.6</b>	
	300-850 micron	<b>15.7</b>	
	<300 micron	<b>83.7</b>	
ENV - EFFECTIVE NEUTRALISING VALUE	%	<b>93</b>	65 - 80
SULFUR	SO <sub>4</sub> -S%	<b>-0.01</b>	
KGS TOTAL <b>CA</b> PER TONNE		<b>395.49</b>	
KGS TOTAL <b>MG</b> PER TONNE		<b>3.30</b>	
KGS TOTAL <b>S</b> PER TONNE		<b>0</b>	

### Comments:

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\* *It is also a very fine grade product as indicated by the high ENV where >> 60% will pass through a 300 micron sieve.*

\* *In conclusion, this sample is considered very high quality and ideal for use as a soil amendment for the reasons stated above.*