

UR 1950/15

TASMANIA

Department of Mines Laboratory,

LAUNCESTON. 15th March, 1950.

MEMORANDUM

The samples of limestone received from you on the 2nd instant and stated to be obtained from Proctors Road Lime Quarry have been analysed with the following results.

<u>Regd. No.</u>	<u>Sample No.</u>		<u>Percent</u>
169	1. Bulk Grab Sample	Acid Insoluble.....	46.2
		Al ₂ O ₃	0.7
		Fe ₂ O ₃	1.1
		TiO ₂	0.2
		CaO.....	35.9
		MgO.....	0.3
		Ignition Loss.....	14.4
170	2. Top Band 6'6"	Acid Insoluble.....	49.3
		Al ₂ O ₃	1.7
		Fe ₂ O ₃	1.2
		TiO ₂	0.2
		CaO.....	31.0
		MgO.....	0.3
		Ignition Loss.....	15.8
171	3. Middle Band 2'	Acid Insoluble.....	75.8
		Al ₂ O ₃	2.8
		Fe ₂ O ₃	2.2
		TiO ₂	0.6
		CaO.....	9.4
		MgO.....	0.5
		Ignition Loss.....	8.2
172	4. Bottom Band 4'	Acid Insoluble.....	34.6
		Al ₂ O ₃	1.2
		Fe ₂ O ₃	0.7
		TiO ₂	0.1
		CaO.....	42.2
		MgO.....	0.1
		Ignition Loss.....	20.2

The samples do not contain available or free CaO. Assuming the losses on Ignition as being totally carbonate radicle there is a deficiency in three of the samples to satisfy the lime contents and consequently some of the lime must be present as silicate.

The approximate percentages are as follows: Regd. No. 169, 18.3% CaO as carbonate 17.6% CaO as silicate. Regd. No. 170, 20.1% CaO as carbonate 10.9% CaO as silicate. Regd. No. 171, 25.7% CaO as carbonate 16.5% CaO as silicate. Regd. No. 172, 0.4% CaO as carbonate nil CaO as silicate.

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Director of Mines,
HOBART.