Province of
British Columbia

Ministry of
Mines and
Petroleum Resources

Parliament Buildings
Victoria
British Columbia
V8V 1X4

011879

13 June 1978

92K 32

Mr. R. Kelly Robertson
4663 Deerwood Terrace
Victoria, B.C.
V8Y 1C8

Dear Mr. Robertson:

Please find enclosed the copy of test results on marble samples from Knight Inlet. The values of compressive strength of samples #1A, 1B, 2A, 2B, 3A and 3B represent strength parallel to the rift, while values of samples #4A, 4B, 4C, 5A, 5B, 5C, 6A and 6B are results of stress perpendicular to the rift. The modulus of rupture values of samples #1A, 1B, 1C are perpendicular to the rift and values of samples #2A, 2B, 2C are parallel to the rift. The obtained results indicate relatively homogeneous material with about average values typical for good quality marble. The testing was done in the laboratory of the Geo-technical and Materials Branch of the Ministry of Highways & Public Works, Victoria, B.C.

Yours very truly,

Z. D. Hora, P. Geol.
Industrial Minerals Specialist
Geological Division
Mineral Resources Branch

ZDH:nhc
encl:

92K NW Gen -07

Sample received May 1, 1978

Required tests: 1) Absorption and Bulk Specific Gravity (A.S.T.M. C97)
2) Compressive Strength (A.S.T.M C-170)

Results:

Sample No.	Absorption (%)	Bulk Specific Gravity	Compressive Strength (psi)
1A	.08	2.72	10,720*
1B	.07	2.77	11,980
2A	.06	2.71	9,000
2B	.08	2.72	11,890*
3A	.09	2.65	9,780*
3B	.06	2.73	10,190
4A	.08	2.67	12,200
4B	.07	2.65	9,680*
4C	.07	2.76	13,050
5A	.06	2.64	11,380*
5B	.07	2.74	12,570
5C	.09	2.70	15,570*
6A	.09	2.67	12,230
6B	.06	2.64	6,340*
	Avg. = .07		

* Wet compressive strength

NOTE: For locations of various cores and their orientation with regard to bedding planes etc., refer to attached photographs.

Sample received May 26, 1978

Required tests: 1) Modulus of Rupture of Natural Building Stone (ASTM C-99)

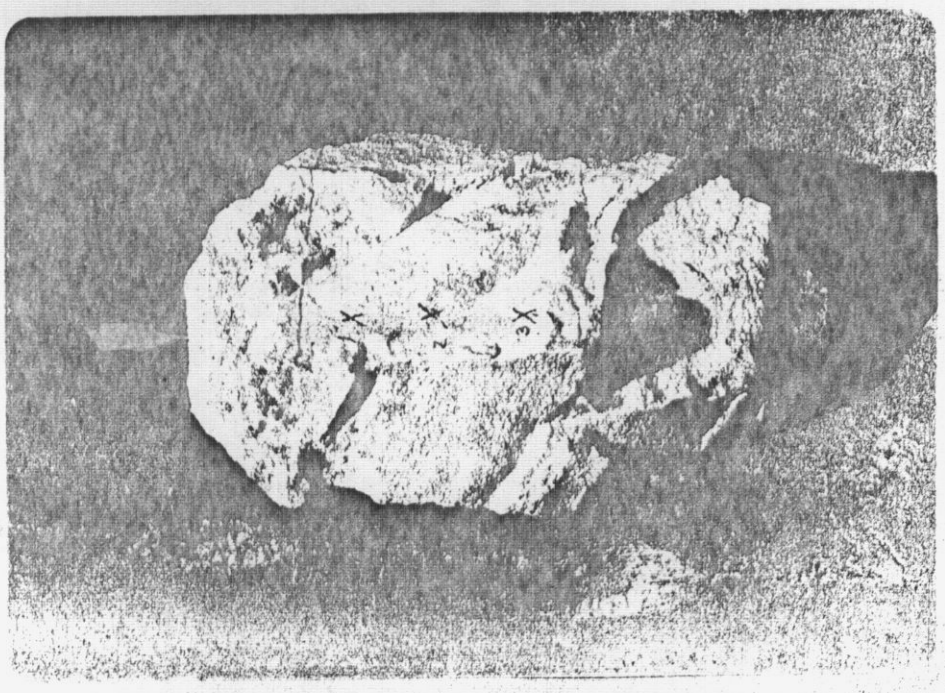
Results:

Sample No.	Avg. Width (in.)*	Avg. Thickness*	Breaking Strength (lbF)	Modulus of Rupture(psi)
1A	2.281	2.281	2960	2619
1B	2.281	2.219	2540	2375
1C	2.406	2.219	2830	2508
2A	2.188	2.219	1930	1881
2B	2.281	2.156	2840	2812
2C	2.188	2.188	2180	2185

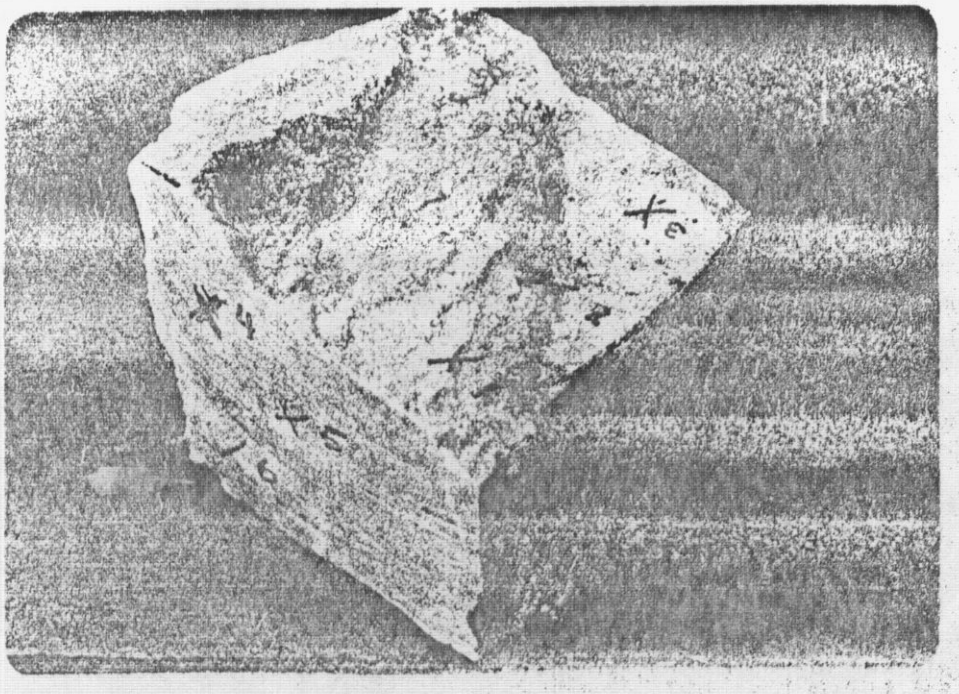
* Average of six measurements

NOTE: For sample identification and loading orientation, refer to attached photographs.

PHOTOGRAPHS

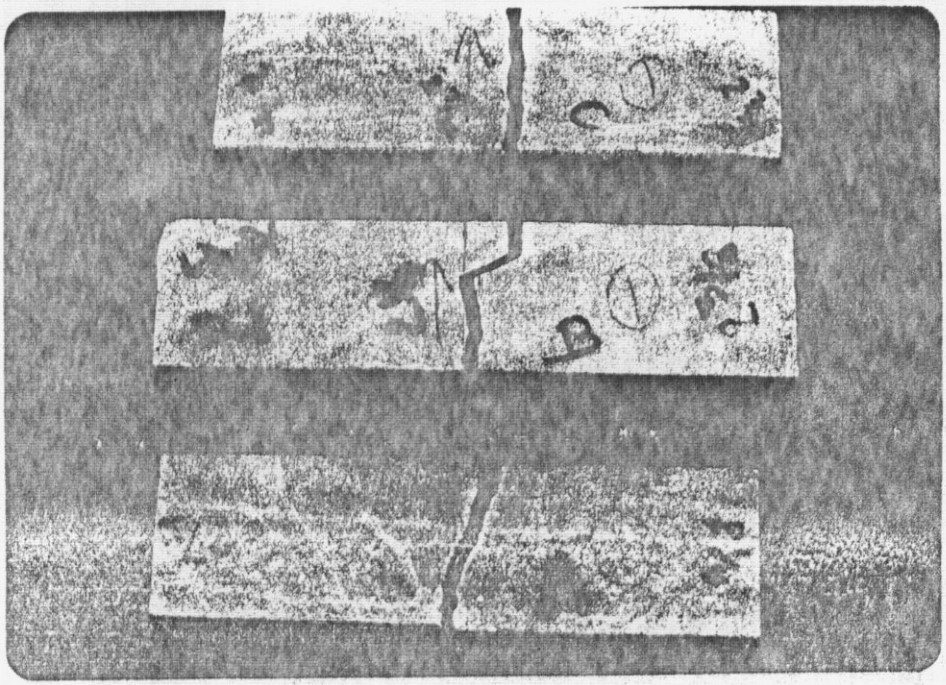


1) Sample as received

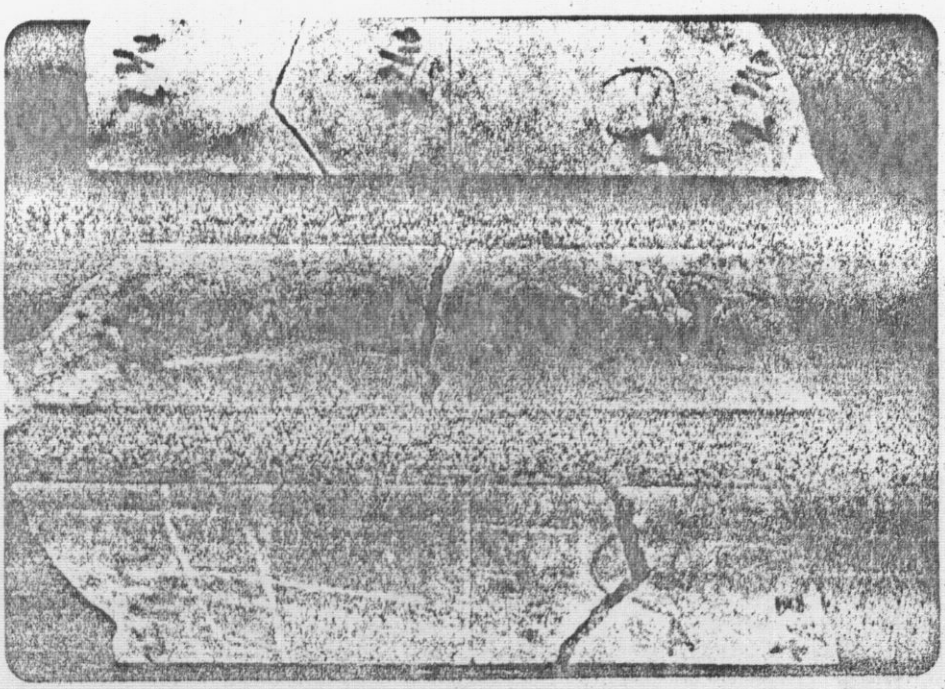


2) Sample after cutting

PHOTOGRAPHS



1) Sample set No. 1



2) Sample set No. 2