672867 Jordan River

Principles of Engineering, Geology and Geotechnics - Krynine & Judd Glossary of Geology and Related Sciences

> 16/10/70 Dr DULMAGE : ATTACHED IS A CORV (WHICH YOU MAY KEED) OF THE ROCK TESTING PROGRAM. THE COMPRESSIVE STRENGTH THE OF 15 LOW BECROSE GABBRO ALONG OF FAILURE IN THE HAIRLINE CRACKS SAMPLE NOT NOTICED BEFORE TESTING, THE RESULTS OF T3 VT (ALSO LOW) WERE EXPECTED

I CAN PROBABLY LOCATE THE FAILED SAMPLES IF YOU WISH.

the above books returned to Dr. Dolmage, at his request, Oct. 22/70,

COAST ELDRIDGE

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PROFESSIONAL SERVICES DIVISION

125 East 4th Ave., Vancouver 10, B.C. Phone 878-4111 - Telex 04-50353

REPORT OF:	Laboratory Tests	FILE NO.	C.2-J.1-68
AT	Vancouver	DATE	July 31, 1968
PROJECTI	Jordan River	REPORT NO.	3/68
REPORTED TO:	International Power & Engineering Consultants Ltd., Jordan River, B.C. ATTN: Mr. A. Imrie. International Power & Engineering Consultants Ltd., Vencouver, ATTN: Mr. F. Siudut.	ORDER NO.	·

TESTING OF ROCK CORES

I PROGRAM

The Client has submitted a number of samples of rock cores for testing. The samples were received July 8, 1968.

Evaluations to be conducted included:

Compressive Strength Molulus of Elasticity Unit Weight as received

II SAMPLE IDENTIFICATION

Samples were marked by the Client. A total of five samples were tested and these were numbered T1 to T5 inclusive.

III PROCEDURES

Cores were end-trimmed with a diamond saw.

The unit weight of the rock was determined by simple weighing and measuring of the core volume.

Compressive strength was determined on the sample cut to approximate length: diameter ratio of 2.0. Procedures were generally in accordance with the requirements of A.S.T.M. C42 where applicable.

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Jordan River

July 31, 1968

The modulus elasticity in compression was determined using a compressometer coupled to an automatic stress-strain recorder. The structure of the compressometer was similar to that detailed in A.S.T.M. C469. For the purposes of these tests it is assumed that the tangent modulus would be the most suitable.(Note)

IV RESULTS

The results are presented in the attached tabulation.

Note:

For most cores, the stress-strain relationship was virtually linear and the selection of the type of modulus would not be significant.

COAST ELDRIDGE

P.T. Seabrook, P.Eng., Materials Engineer.

PTS/aj

FORM			Rock Type	Core Ø ins.	Core Length ins.	Core Weight gms.	Core Density lbs/cu.ft.	Jordan River File No. C.2-J.1-68 July 31, 1968			
Sample No.	DDH	Footage						Compres- sion Load lbs.	Compres- sive Strength p.s.i.	Compres- sion Modulus of Elasticity p.s.i.	
Tl	рнз	50/50.8	Fine grained gabbro	2,150"	4.250	769.0	189.8	47,950	13,200	12.75 x 106 2 m o	
T 2	E4	35/36.3	Flow breccia (volcanic)	2,135"	4.260	742.2	185.6	71,500	20,000	11.56 x ^m ⁷	
T 3	E4A	45.8/46.9	Flow breccia (volcanis)	2.145"	4.250	749.5	186.0	30,250	8,370	9.23 x 04 106	
T 4	E4A	65.5/66.5	Massive basalt	2,15"	4.285	765.7	187.6	101,000	27,820	11.25 x 28 10 ⁶	
T 5	E7	77.6/78.6	Epidotized basalt	2,145"	4.285	764.3	188.4	21,900	6,060	11.02 x	

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