

LEA Lewkovich Engineering Associates Ltd.
COMPRESSIVE STRENGTH OF CONCRETE CORES

Client: Klohn Crippen Berger

Project Name: City of Nanaimo Middle and Lower Chase Dam Removal

Site Location: Nanaimo B.C.

Test Location: Lower Dam Wall

Job No: F0673

Lab No. L7498

Date Poured: 1910 - 1911

Date Cored: March 21, 2013

Cored By: CR

CORE SAMPLE NUMBER	CORE SAMPLE LOCATION	CORE DENSITY Kg/m ³	AGE AT TEST Days	LENGTH		AVERAGE DIAMETER mm	MAXIMUM LOAD KN	COMPRESSIVE STRENGTH MPa	CORRECTED COMP. STR. MPa *	DATE TESTED
				CORED mm	TRIMMED mm					
1A	North end of lower Chase Dam.	2500	Unknown	467	84	70	162.58	42.2	38.8	04-Apr-13
1B	North end of lower Chase Dam.	2447	Unknown		111	70	99.96	26.0	25.1	04-Apr-13
2A	North end of lower Chase Dam.	2470	Unknown	470	140	70	101.01	26.2	26.2	04-Apr-13
2B	North end of lower Chase Dam.	2500	Unknown		140	70	95.73	24.9	24.9	04-Apr-13
3	North end of lower Chase Dam.	2560	Unknown	195	134	95	187.56	26.5	25.1	04-Apr-13
4	North end of lower Chase Dam.	2537	Unknown	200	151	95	168.74	23.8	23.0	04-Apr-13

REMARKS * Compressive Strengths corrected for LD ratio less than 2.0

Average: 27.2

There are four core locations across a 0.8m length of the lower dam. Cores 1 and 2 were taken using a 75mm coring barrel, to a depth of ~450mm. We did two strength tests each for Cores 1 and 2. Cores 3 and 4 were taken using a 100mm coring barrel, to a depth of ~200mm. We did one strength test each for Cores 3 and 4 .

Reviewed by: JLB