

COMPRESSIVE STRENGTH OF DRILLED CONCRETE CORES

REPORT TO: Salmon School District 291
907 Sharkey Street
Salmon, Idaho 83467

DATE: 5/21/2012
CLIENT NO: SALMSD
PROJECT NO: BO12123A

PROJECT: Salmon School District 291

Sample Identification

On 5/11/12 Strata personnel obtained 8 concrete core samples, cored by A-Core from the above referenced project. At your request, STRATA performed compressive strength tests on 5/19/12 in general accordance with ASTM C-42. The test results are summarized as follows:

Test Results:

Location	Lab No.	Age, Days	Dia. in.	Capping Length, in.		Area, in ²	Load, lbs	Comp. Strength psi	L:D Correction Factor
				Before	After				
Building Corner	P120091A	N/A	3.75	7.0	7.20	11.02	32,390	2,940	1.00
Building Corner	P120091B	N/A	3.75	4.4	4.60	11.02	41,350	3,490	0.93
Building Corner	P120091C	N/A	3.75	5.5	5.70	11.04	30,500	2,650	0.96
Boiler Room	P120092A	N/A	3.75	7.1	7.30	11.07	25,840	2,330	1.00
Boiler Room	P120092B	N/A	3.75	7.1	7.30	11.02	24,985	2,270	1.00
Boiler Room	P120093A	N/A	3.75	7.2	7.40	11.02	21,775	1,980	1.00
Gymnasium Roof	P120093B	N/A	3.75	5.5	5.70	11.04	15,240	1,320	0.96
Gymnasium Roof	P120093C	N/A	3.75	7.5	7.70	11.04	26,645	2,410	1.00

* Note: ASTM C 42 Note 3 - The compressive strengths of nominal 2-in. diameter cores are known to be somewhat lower and more variable than those of nominal 4-in. diameter cores. In addition, smaller diameter cores appear to be more sensitive to the effect of the length-diameter ratio.

*Note: Core samples are NOT 4 inch diameter.

Reviewed By: 