STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF GEOTECHNICAL SUPPORT
GEOTECHNICAL LABORATORY

POINT LOAD TEST
ASTM D 5731 - 95

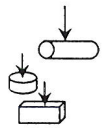
EA # 11-090121 *Sample I.D.* San Luis Rey Br. R-08-021

Date 11/25/2008
Tested By TM Liao
Checked By

ROCK # _____

Sample No.	Test Type	Width, W(mm)	Distance Between Platen, D (mm)	Max. Pressure (psi)	Final Distance Between Platen D' (mm)	Failure Load, P (lbs)	Equivalent Core Diameter, D_e (in)	Uncorrected Point Load Strength I_S (psi)	Point Load Strength Index $I_{S(50)}$ (psi)	Uniaxial Compressive Strength, σ_c (psi)
59.0-59.5 ft	d		57.0	300	55.0	528	2.20	109	114	2744
61.0-61.4 ft	d		59.0	220	54.0	387	2.22	78	83	1987
62.0-62.4 ft	d		59.0	350	55.0	616	2.24	122	130	3117
62.0-62.4 ft	d		59.0	390	52.0	686	2.18	144	151	3627
63.0-63.6 ft	d		59.0	320	54.0	563	2.22	114	120	2891
72.5-73.0 ft	d		59.0	1100	57.0	1936	2.28	371	397	9529
72.5-73.0 ft	d		58.0	1320	50.0	2323	2.12	517	534	12825
73.3-78.0 ft	d		59.0	850	55.0	1496	2.24	297	315	7570
61.0-61.4 ft	a									3811 *

Test Types:
d = diametral
a = axial
b = block



i = irregular lump test
p = perpendiclular
l = parallel to plane of weakness

* See attached Calcs

Mean $I_{S(50)}$ = 231 psi
Mean σ_c = 5536 psi