



Geotechnical Design of Embankment from CH. 92+600 to CH. 93+870

BOREHOLE	SAMPLE	DEPTH	DESCRIPTION	POROSITY	DENSITY	BULK DENSITY	MOISTURE CONTENT	UNCONFINED COMPRESSION TEST			POISSON'S RATIO ν	POINT LOAD TEST			SHEAR TEST			BRASILIAN TEST	TRIAXIAL TEST		WATER ABSORPTION	SLAKE TEST		L.A.	ROCK HEALTH	FINE MATERIAL	SAND EQUIVALENT	
								STRESS	STRAIN	ELASTICITY MODULUS				σ_a	DISCONTINUITY FRICTION ANGLE ϕ_{max}	ATYMENT COHESION c_{max}	RESIDUAL FRICTION ANGLE ϕ_{res}		FRICTION ANGLE ϕ	COHESION c		D_1	D_2	LOS ANGELES LOSS	ROCK HEALTH LOSS			
																												σ_1
M8		49,7-49,8	Gneiss	4.04		25.9						0.32	0.29	0.89														
M8		52,4-52,6	Gneiss									0.67	0.29	0.43														
A2	$\Delta 10$	27,90	Marble									1.02	1.39	0.74														
A2	$\Delta 11$	32,50	Gneiss									0.29																
G48	$\Delta 8$	26,20-26,70	Marble	1.42		26.70		34.68	0.53	5090	0.48																	
G48	$\Delta 9$	34,50-35,00	Gneiss	12.18		23.60						0.39	0.15											65.61				
G48	$\Delta 10$	39,00-40,20	Gneiss					29.80	0.60	4060	0.18																	
G48	$\Delta 11$	44,90-45,50	Gneiss									3.59	4.20															
GN2		19,20-19,30	Gneiss									2.03	3.43															
GN2		20,90-21,10	Gneiss									2.19	2.55															
GN2		22,60-22,80	Gneiss									0.73	1.55															
GN2		24,80-25,00	Gneiss										0.25															
GN2		27,70-27,90	Gneiss										0.37															
GN2		29,40-29,80	Gneiss					14.28	2.82																			
GN3		19,00-19,20	Gneiss									1.34	1.59															
GN4		18,00-18,20	Gneiss					16.78	2.64																			
GN4		20,60-20,80	Gneiss					44.53	1.47																			
GN4		20,90-21,10	Gneiss									6.35	7.97															
GN4		22,40-22,60	Gneiss									0.42	0.72															
Layer III: Gneiss (gn)			COUNT	3		3		5	5	2	2	11	14	3										1				
			MINIMUM VALUE	1.42		23.60		14.28	0.53	4060.00	0.18	0.32	0.15	0.43									65.61					
			MAXIMUM VALUE	12.18		26.70		44.53	2.82	5090.00	0.48	6.35																