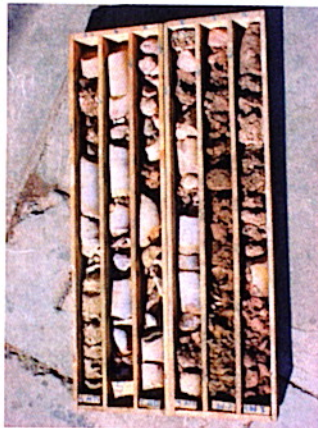


GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection Page: 1 / 2
Core Drill #: Y-5 Site Location: Landslide lower Terrace front of gym Ref. #: B-5
Elevation: 928.10 Inclination (Angle with respect to Horizontal): Vertical (90°)
Log Elaborated by: Ing. Raul Flores Peñalba Date: October 25, 2001



0.00~13.00m
Detritus



13.00~ m
F. Rio Chiquito



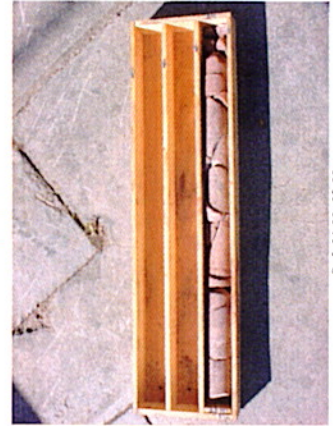
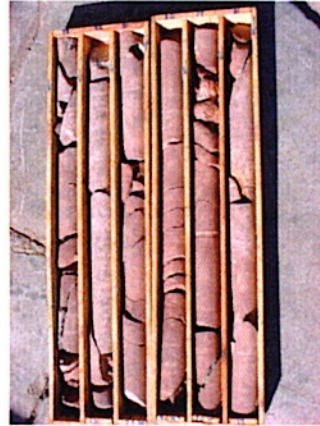
WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	928.10	0.00		
	927.10	1.00		Topsoil, with organic contamination, brown color
	926.10	2.00		
	925.10	3.00		
OCT 23 3.40	924.10	4.00		Detritus; area of rhyolite boulders interbedded within lenses of clay
	923.10	5.00		
	922.10	6.00		
	921.10	7.00		Lens of clayey sand, brownish to greenish color
	920.10	8.00		
	919.10	9.00		
	918.10	10.00		
	917.10	11.00		Detritus; area of rhyolite boulders interbedded within lenses of clay
	916.10	12.00		
OCT 24 13.00	915.10	13.00		
	914.10	14.00		Rock contact composed of lutite (shale) or sandstone due to small particles of quartz present on core, red color with white bands of gypsum
	913.10	15.00		

GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection Page: 2 / 2
Core Drill #: Y-5 Site Location: Landslide lower terrace front of gym Ref. #: B-5
Elevation: 928.10 Inclination (Angle with respect to Horizontal): Vertical (90°)
Log Elaborated by: Ing. Raul Flores Peñaiba Date: October 25, 2001

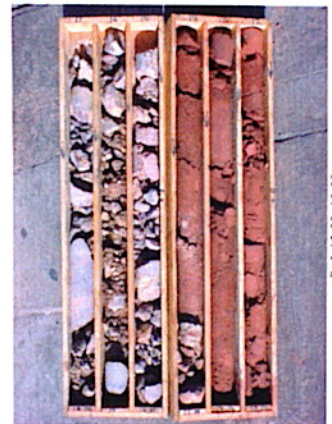
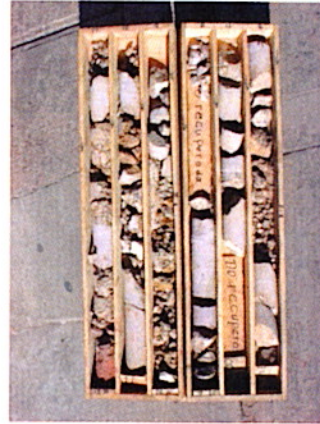
WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	913.10	15.00		
	897.10	16.00		
	896.10	17.00		
	895.10	18.00		
	894.10	19.00		
	893.10	20.00		
	892.10	21.00		
	891.10	22.00		
	890.10	23.00		
	889.10	24.00		
	888.10	25.00		
				Bottom of Borehole

sound rock Formation Rio Chiquito



GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection Page: 1 / 4
 Core Drill #: Y-8 Site Location: Upper terrace near Mountainside Ref. #: B-6
 Elevation: 965.10 Inclination (Angle with respect to Horizontal): Vertical (90°)
 Log Elaborated by: Ing. Raul Flores Peñaiba Date: November 10, 2001

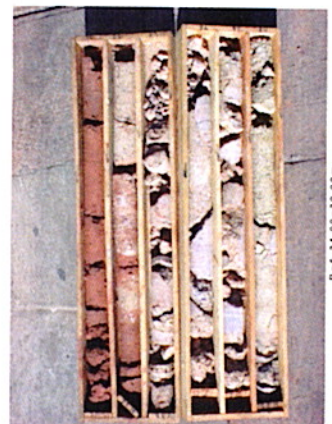
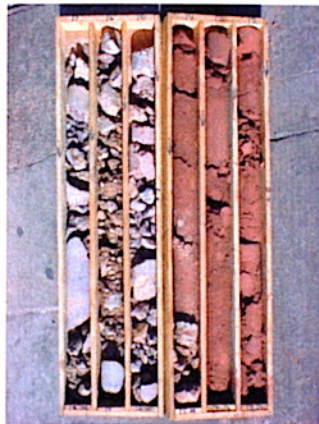


WATER CONTENT END OF DRILLING	ELEVATION (m)	DRILL DEPTH (m)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	965.10	0.00		
	964.10	1.00		Topsoil with organic contamination, clayey matrix
	963.10	2.00		
	962.10	2.60		
	961.10	4.00		
	960.10	5.00		
	959.10	6.00		
	958.10	7.00		
	957.10	8.00		Detritus; area of rhyolite boulders with small lenses of clay
	956.10	9.00		
	955.10	10.00		
	954.10	11.00		
	953.10	12.00		
	952.10	13.00		
	951.10	14.00		Red clay layer with fragments of boulders or gravels, possibly redeposited soils
	950.10	14.85		
		15.00		

2.60~43.40m
 Detritus (Boulder, Red clay, Gravels, Alternated)

GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection Page: 2 / 4
 Core Drill #: Y-8 Site Location: Upper terrace near Mountainside Ref. #: B-6
 Elevation: 965.10 Inclination (Angle with respect to Horizontal): _____ Vertical (90°)
 Log Elaborated by: Ing. Raul Flores Peñalba Date: November 10, 2001



WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	950.10	15.00		Detritus: area of rhyolite boulders with small lenses of clay
	934.10	16.00		
	933.10	17.00		
	932.10	18.00		
	931.10	19.00		
	930.10	20.00		
	929.10	21.00		
	928.10	22.00		
	927.10	23.00		
	927.10	23.75		
NOV.9	926.10	24.00		Red clay lens with gravels or boulder fragments of rhyolite rocks, redeposited soils
24.0	925.10	25.00		
	924.10	26.00		Detritus: area of rhyolite boulders with small lenses of clay
	923.10	27.00		
	922.10	28.00		
	921.10	29.00		
	920.10	30.00		Red sandy clay layer with small pebbles of detritus