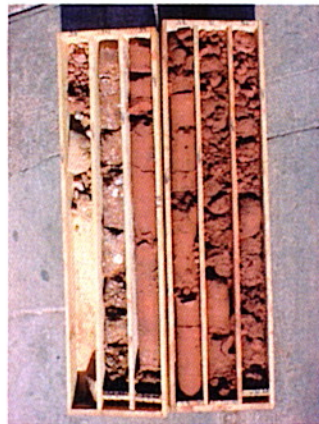


GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection Page: 3 / 4
Core Drill #: Y-8 Site Location: Upper terrace near Mountaine 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



B-6 30 00-30 00m



B-6 35 00-42 00m



B-6 42 00-45 00m

WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	920.10	30.00	[Graphic Log]	Red sandy clay layer with small pebbles of detritus
	889.10	31.00	[Graphic Log]	
	888.10	32.00	[Graphic Log]	
	887.10	33.00	[Graphic Log]	
	886.10	33.50 34.00	[Graphic Log]	Sandy silt, brownish color with gravels of detritus
	885.10	35.00	[Graphic Log]	
	884.10	35.50 36.00	[Graphic Log]	
	883.10	37.00	[Graphic Log]	
	882.10	38.00	[Graphic Log]	Detritus; area of rhyolite boulders with small lenses of clay
	881.10	39.00	[Graphic Log]	
	880.10	40.00	[Graphic Log]	
	879.10	41.00	[Graphic Log]	
	878.10	42.00	[Graphic Log]	Lithified red clay layer of redeposited material but with incrustated rhyolite boulders
	877.10	43.00	[Graphic Log]	
	876.10	43.40 44.00	[Graphic Log]	Rock contact composed of tuffite (shale) or sandstone
	875.10	45.00	[Graphic Log]	

43.40~ m
F. Rio Chiquito

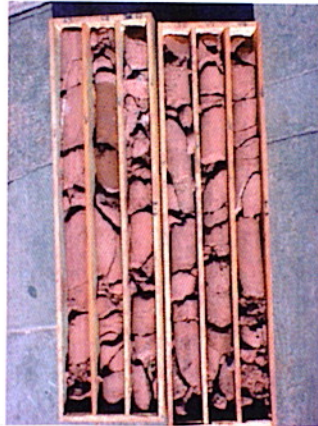
GEOLOGICAL LOG OF CORE DRILL

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



B-6 42.00-48.00m

48.80 ~ 49.00m
shear zone



B-6 48.00-54.00m



B-6 54.00-60.00m

55.00 ~ 58.50m
shear zone

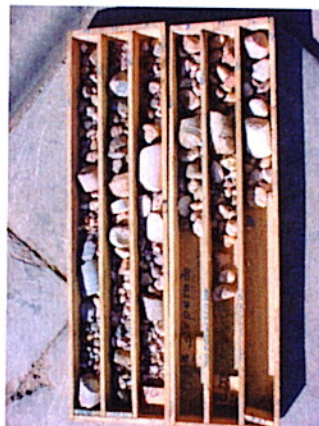
WATER CONTENT END OF DRILLING		ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
		875.10	45.00		Rock composed of lutite (shale) or sandstone due to small particles of quartz present on core, red color with white bands of gypsum
		829.10	46.00		
		828.10	47.00		
		827.10	48.00		
		826.10	49.00		
		825.10	50.00		
		824.10	51.00		
		823.10	52.00		
		822.10	53.00		
		821.10	54.00		
		820.10	55.00		
		819.10	56.00		
		818.10	57.00		
		817.10	58.00		
		816.10	59.00		
		815.10	60.00		

GEOLOGICAL LOG OF CORE DRILL

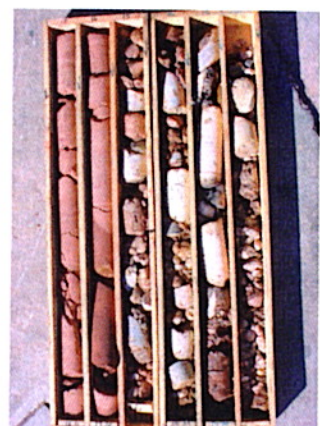
Project: JICA Study Team: Landslide Protection Page: 1 / 2
 Core Drill #: Y-6 Site Location: Lower terrace front of C-2a Ref. #: B-7
 Elevation: 933.90 Inclination (Angle with respect to Horizontal): Vertical (90°)
 Log Elaborated by: Ing. Raul Flores Peñaiba Date: October 29, 2001



B-7 0 00-6 00m



B-7 0 6 00-12 00m



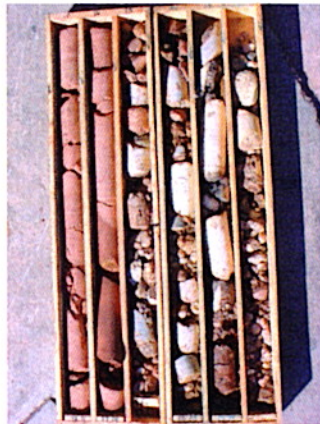
B-7 12 00-18 00m

1.15~16.00m
Detritus

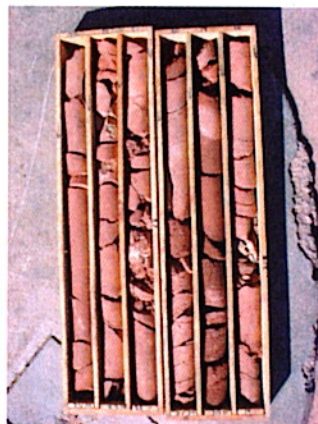
WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	933.90	0.00		
	932.90	1.00		Topsoil, with organic contamination, brown color
	931.90	2.00		
	930.90	3.00		
	929.90	4.00		Detritus; area of rhyolite boulders interbedded within lenses of clay
	928.90	5.00		
	927.90	6.00		
	926.90	7.00		
	925.90	8.00		Similar rhyolite boulders recovered, but lens of clay material not recovered
	924.90	9.00		
	923.90	10.00		
OCT. 29	922.90	11.00		
11.00	921.90	12.00		Detritus; area of rhyolite boulders interbedded within lenses of clay
	920.90	13.00		
	919.90	14.00		
	918.90	15.00		

GEOLOGICAL LOG OF CORE DRILL

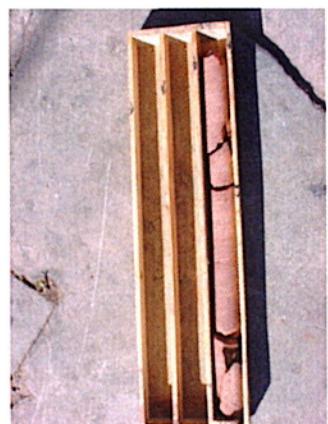
Project: JICA Study Team: Landslide Protection Page: 2 / 2
Core Drill #: Y-6 Site Location: Lower Terrace front of C-2a Ref. #: B-7
Elevation: 933.90 Inclination (Angle with respect to Horizontal): Vertical (90°)
Log Elaborated by: Ing. Raul Flores Peñaiba Date: October 29, 2001



B-7 12.00-18.00m



B-7 18.00-24.00m



B-7 24.00-25.00m

16.00~ m
 F. Rio Chiquito
 sound rock

WATER CONTENT OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	918.90	15.00		Detritus: area of rhyolite boulders interbedded within lenses of clay
	902.90	16.00		Rock contact composed of lutite (shale) or sandstone due to small particles of quartz present on core, red color
	901.90	17.00		
	900.90	18.00		
	899.90	19.00		
	898.90	20.00		
	897.90	21.00		
	896.90	22.00		
	895.90	23.00		
	894.90	24.00		
	893.90	25.00		
				Bottom of Borhole