

# GEOLOGICAL LOG OF CORE DRILL

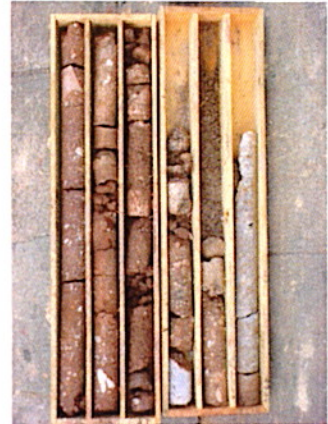
**Project:** JICA Study Team: Landslide Protection    **Page:** 2 / 2  
**Core Drill #:** O-8    **Site Location:** Soccer field, south end    **Ref. #:** R-2  
**Elevation:** 962.50    **Inclination (Angle with respect to Horizontal):** Vertical (90°)  
**Log Elaborated by:** Ing. Raul Flores Peñalba    **Date:** November 28, 2001



18.00~28.00m  
Tpm (tuff, Volcanic fragment)



R-2 18.00-24.00m



R-2 24.00-30.00m

WATER CONTENT END OF DRILLING		ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
		947.50	15.00		Deiftilus; area of rhyolite boulders with small lenses of silty sand material
		931.50	16.00		.....
		930.50	17.00		Zone of big boulders
		929.50	18.00		
		928.50	19.00		
		927.50	20.00		
		926.50	21.00		Redeposited soils in a brown silty sand matrix, possibly from altered tuff, fragments from volcanic origin up to 10 cm
		925.50	22.00		
		924.50	23.00		
		923.50	24.00		Zone of big boulders
		922.50	25.00		.....
		921.50	26.00		Silty sand Lens, brown color
		920.50	27.00		
		919.50	28.00		Redeposited soils in a brown silty sand matrix, possibly from altered tuff, fragments from volcanic origin
		918.50	29.00		Redeposited soils in a sandy clay matrix, red color, possibly from lower Rio Chiquito formation (red beds), transition zone
		917.50	30.00		

29.00m F.Rio chiquito ?

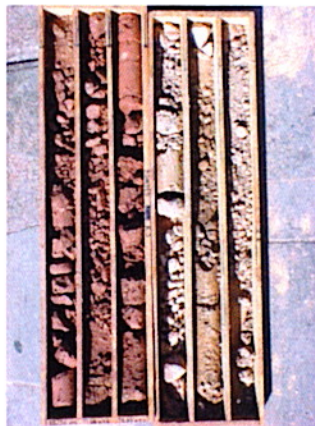
# GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection Page: 1 / 3  
 Core Drill #: O-7 Site Location: Within scarp, middle terrace Ref. #: R-3  
 Elevation: 950.00 Inclination (Angle with respect to Horizontal): Vertical (90°)  
 Log Elaborated by: Ing. Raul Flores Peñalba Date: November 24, 2001



1.75~9.00m

Landslide Block (old landslide material)



9.00m~

F. Rio Chiquito (very altered) and

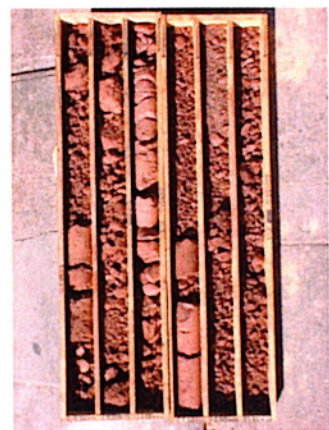
Landslide surface



WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	950.00	0.00		
	949.00	1.00		Topsoil, tuff material, white-grey color
	948.00	2.00		
	947.00	3.00		Deiftus; area of rhyolite boulders with small lenses of silty sand material
	946.00	4.00		
	945.00	5.00		
	944.00	6.00		Silty sand soil, possibly from tuff disintegration
NOV.21 6.80	943.00	7.00		Boulder zone
	942.00	8.00		
	941.00	9.00		Silty sand soil, possibly from tuff disintegration... Gravels of tuff with boulders, transition zone
NOV.23 10.70	940.00	10.00		
	939.00	11.00		
	938.00	12.00		Red beds of Rio Chiquito contact, lutite (shale) rock / soil; gravely clay composed of lutite fragments and clay lens, very altered and in some spans disintegrated
	937.00	13.00		
	936.00	14.00		
	935.00	15.00		

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**Elevation:** 950.00    **Inclination (Angle with respect to Horizontal):** Vertical (90°)  
**Log Elaborated by:** Ing. Raul Flores Peñalba    **Date:** November 24, 2001



WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	935.00	15.00		
	919.00	16.00		
	918.00	17.00		Fractured lutite rock with more noticeable nucleus of rocks, always interbedded with clay lens
	917.00	18.00		
	916.00	19.00		Layer of red sandy clay
	915.00	19.40		
	914.00	20.00		Fractured lutite rock with more noticeable nucleus of rocks
		20.80		
		21.00		
	913.00	22.00		
	912.00	23.00		
	911.00	24.00		Lutite rock, red color, possibly siltstone with vein of gypsum or anhydrite; clay layers are interbedded
	910.00	25.00		
	909.00	26.00		
	908.00	27.00		
	907.00	28.00		
	906.00	29.00		Lutite rock, red color, possibly siltstone with vein of gypsum or anhydrite more lifted
	905.00	30.00		

19.40~20.80m shear zone

24.00~25.00m shear zone

