

GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection Page: 1 / 3
Core Drill #: A-2 Site Location: Middle terrace beside lagoon Ref. #: R-4
Elevation: 940.00 Inclinacion (Angle with respect to Horizontal): Vertical (90°)
Log Elaborated by: Ing. Raul Flores Peñalba Date: November 26, 2001

WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	940.00	0.00		
	939.00	1.00		Topsoil, tuff material, white-gray color
	938.00	2.00		
	937.00	3.00		Detritus; area of rhyolite boulders with small lenses of silty sand material
NOV.18 3.00	936.00	4.00		
	935.00	5.00		
NOV.19 5.00	934.00	6.00		
	933.00	7.00		
	932.00	8.00		Tuff-like soil, silty sand characteristics, brownish color
NOV.21 10.00	931.00	9.00		
	930.00	10.00		
	929.00	11.00		Transition zone, contact with red clay, possibly redeposited soils from lower red beds
	928.00	12.00		
	927.00	13.00		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
	926.00	14.00		
	925.00	15.00		

1.00~4.10m
Detritus

4.10~11.00m
Lan

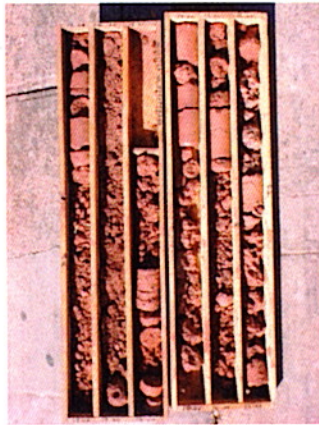
12.00~
m
F. Rio Chiquito
(very altered and sheared)



GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection Page: 2 / 3
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Log Elaborated by: Ing. Raul Flores Peñaiba Date: November 26, 2001

WATER CONTENT OF DRILLING		ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
15.00 NOV.26		925.00	15.00	[Symbol]	
		909.00	16.00	[Symbol]	
		908.00	17.00	[Symbol]	
		907.00	18.00	[Symbol]	
		906.00	19.00	[Symbol]	
		905.00	20.00	[Symbol]	
		904.00	21.00	[Symbol]	
		903.00	22.00	[Symbol]	
		902.00	23.00	[Symbol]	
		901.00	24.00	[Symbol]	
		900.00	25.00	[Symbol]	
		899.00	26.00	[Symbol]	
		898.00	27.00	[Symbol]	
		897.00	28.00	[Symbol]	
		896.00	29.00	[Symbol]	
		895.00	30.00	[Symbol]	



GEOLOGICAL LOG OF CORE DRILL

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32.00~33.00m
shear zone



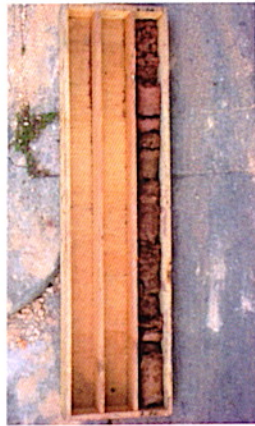
WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	895.00	30.00		
	864.00	31.00		Little rock, red color, possibly siltstone with vein of gypsum or anhydrite more lithified
	863.00	32.00		
	862.00	33.00		Disintegrated rock, clay constituency is noticeable
	861.00	34.00		
	860.00	35.00		Bottom of Borehole

GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection Page: 1 / 1
 Core Drill #: A-3 Site Location: Lower slope Towards bottom Ref. #: R-5
 Elevation: 932.00 Inclination (Angle with respect to Horizontal): Vertical (90°)
 Log Elaborated by: Ing. Raul Flores Peñalba Date: November 28, 2001



0.00~4.00m
Detritus

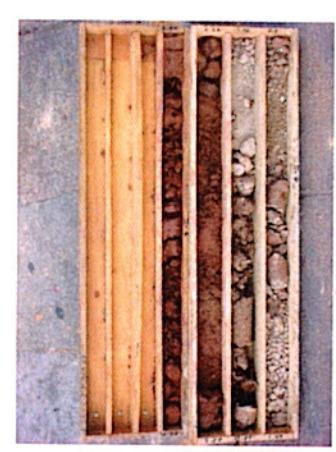


4.00~ m
F. Rio Chiquito (very altered)

WATER CONTENT OF DRILLING	STANDARD PENETRATION TEST (SPT) N-VALUES FOR 30 CM.	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)			
						10	15	20
3.00		932.00	0.00					
		931.00	1.00		Detritus; area of rhyolite boulders with small lenses of silty sand material			
		930.00	2.00		Zone of cavity (empty) or washed sand			
		929.00	3.00		Detritus; area of rhyolite boulders with small lenses of silty sand material			
	> 50	928.00	4.00		Transition zone with Rio Chiquito; redeposited clayey soils			
	N	927.00	5.00		Gravelly clay composed of luitite fragments and clay lens, very altered			
	N	926.00	6.00					
	> 50	925.00	7.00		Disintegrated span of the red beds, clay lens			
					Bottom of Borehole			

GEOLOGICAL LOG OF CORE DRILL

Project: JICA Study Team: Landslide Protection **Page:** 1 / 1
Core Drill #: A-4 **Site Location:** Lower slope at the foot of landslide **Ref. #:** R-6
Elevation: 920.00 **Inclination (Angle with respect to Horizontal):** Vertical (90°)
Log Elaborated by: Ing. Raul Flores Peralba **Date:** November 28, 2001



0.00~3.25m
 Detritus

3.25~ m
 F. Rio Chiquito

WATER CONTENT END OF DRILLING	ELEVATION (m)	DRILL DEPTH (m)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	920.00	0.00		
	919.00	1.00		Tuff rock / soil, disintegrated, white color
	918.00	2.00		Silty sand soil from tuff
	917.00	3.00		Silty clay soil, red color, transition zone to lower red beds of Rio Chiquito
	916.00	4.00		Sandy clay soil, redeposited red bed material of Rio Chiquito
				Bottom of Borehole