Soil pit description: PF08

Images:	PF08_01.jpg, PF08_02.jpg
Soil class:	Barbour
Map unit:	B
Location:	200 m N of marker 12, Barbour (East) Trail
Site position:	Flat step on midslope of moderate N scarp down to lake
Slope: Parent material: Forest structure:	0%, linear, general slope aspect 320° Caimito formation, possibly volcanic colluvium over marine sedimentary facies Closed canopy, moderately thick understory, few palms
Litter:	100% cover, 5 layers, thin root mat
Outcrops:	None
Stones:	Few hard boulders (to 30 cm diameter)
Cracks:	None
Microrelief:	None
Faunal activity:	Common fine worm casts
Other surface features:	None

Horizon [cm]		Samples [cm]
0 - 5	7.5YR 3/2 (dark brown); no mottles; (silty) clay loam; moderate medium subangular blocky breaking to moderate fine & medium crumb, including many fine worm casts; no cutans; many fine pores; slightly dry & friable; many fine & medium tree roots; few medium hard grey stones; few fine & medium black ferrimanganiferous concretions; common medium charcoal in clusters; clear regular boundary to:	[0-5]
5 - 30	10YR 3/4 (dark yellowish brown); no mottles; (silty) clay loam; moderate medium subangular blocky breaking to moderate fine crumb; no cutans; many coarse pores,; slightly moist & friable; common fine & medium & few coarse tree roots; common fine black-coated stones & few coarse stones; patches of many fine black ferrimanganiferous concretions; no charcoal; clear regular boundary to:	[5-10] [10-20] [20-30]
30 - 50	10YR 5/3 (brown) with many medium distinct brown, red & orange mottles; silty clay loam; weak medium & fine subangular blocky breaking to moderate fine crumb, including common medium & coarse worm casts; very weak discontinuous clayskins; few fine pores & common old termite nest channels; slightly moist & friable; common fine & few medium tree roots; common fine & medium & few coarse hard stones; many fine black ferrimanganiferous concretions; no charcoal; clear regular boundary to:	[30-40] [40-50]
50 - 60	5Y 7/2 (light grey) with few fine distinct red & orange mottles; silty clay loam; weak fine & medium subangular blocky breaking to moderate fine crumb; weak continuous clayskins; common coarse pores; moist & friable; common fine tree roots; few fine & medium hard stones; many fine black ferrimanganiferous concretions; patches with common fine & medium charcoal; diffuse boundary to:	[50-60]
60 - 113	2.5Y 7/2 (light grey) with common fine distinct orange red & few medium & coarse prominent dark red mottles; clay loam; weak fine & medium subangular blocky breaking to moderate fine crumb; strong continuous clayskins; common fine pores; moist & friable; few fine tree roots; few fine red soft weathered stones; no concretions; no charcoal; clear wavy boundary to:	[60-70] [70-80] [80-90] [90-100] [100- 110]
113 - 140	5Y 7/3 (pale yellow) with common fine & medium distinct red & orange mottles; silty clay; moderate fine & medium subangular blocky breaking to moderate fine crumb; strong continuous clayskins; few fine pores; moist & friable; few fine tree roots; few fine red soft weathered stones; no concretions; no charcoal; clear wavy boundary to:	[110- 120] [120- 130] [130- 140]
140 - 158	2.5Y 7/1 (light grey) with common fine & medium distinct orange mottles; clay (loam); moderate medium & coarse breaking to moderate fine subangular blocky; strong continuous clayskins; few fine pores; moist & friable; few fine tree roots; few fine & medium orange soft weathered stones; no concretions; no charcoal:	[140- 150] [150- 158]
158 - 180	2.5Y 7/2 (light grey) with common fine & medium distinct red & orange mottles; sandy clay; slightly moist & slightly firm& sticky; no stones	None
180 - 230 230 - 240	5Y 7/3 (pale yellow) with few medium distinct dark red & orange mottles; clay; moist & slightly firm; no stones 5Y 7/3 (pale yellow) with common medium distinct red & orange mottles; clay;	None None
240 - 270+	moist & slightly firm; common fine & medium hard stones. 5Y 7/3 (pale yellow) with common medium distinct red & orange mottles; clay; moist & firm; common fine & medium hard stones	None

Correlations	
Catapan (1970):	O T M-N Cf 1
	M C 1 0
World Reference Base:	Vertic Hyperdystric Gleyic Alisol
Soil Taxonomy:	Vertic Oxyaquic Hapludult
Features:	Like the Lake profiles, this soil is friable to below 1.5 m. The mottles below 230 are slightly hard and may be remnants of weathering rock. Chemically intermediate with EBS indicating eutric to 60 cm, and marginally dystric below. Transitional Alisol/Luvisol