

Soil pit description: PR14

Images: PR14_01.jpg, PR14_02.jpg

Soil class: Zetek
Map unit: Z
Location: 20 m SW of marker 27, AVA Trail
Site position: Midslope
Slope: 1%, linear, aspect 290°
Parent material: Caimito marine sedimentary facies
Forest structure: Closed canopy, thick understory, common palms
Litter: 90% cover, 3 layers, no root mat
Outcrops: None
Stones: None
Cracks: None
Microrelief: None
Faunal activity: Many fine worm casts
Other surface features: None

Horizon [cm]		Samples [cm]
0 - 5	5YR 2.5/1 (black); no mottles; humic silty clay loam; moderate fine crumb, including many fine worm casts; no cutans; many coarse pores; moist & friable; many fine & medium tree roots; no stones; no concretions; common medium charcoal in clusters; clear wavy boundary to:	[0-5]
5 - 19	5YR 3/2 (dark reddish brown); no mottles; clay loam; weak medium & coarse fine subangular blocky breaking to fine crumb, including common fine worm casts; no cutans; common fine pores, including common coarse faunal channels; moist & friable; common fine & medium & few coarse tree roots; common coarse orange hard stones; no concretions; no charcoal; clear regular boundary to:	[5-15]
19 - 32	5YR 3/3 (dark reddish brown) no mottles; silty clay loam; moderate medium subangular blocky & many fine worm casts; no cutans; many fine pores; moist & slightly firm; few fine medium & coarse tree roots; many medium & coarse hard stones; many fine black ferrimanganiferous concretions; no charcoal; clear regular boundary to:	[15-25] [25-35]
32 - 44	5YR 4/4 (reddish brown) with common fine distinct grey mottles; gritty silty clay; moderate fine subangular blocky breaking to moderate fine crumb, including common fine worm casts; no cutans; common fine & medium pores; moist & slightly firm; few fine, medium & coarse tree roots; many fine hard grey stones; many fine black ferrimanganiferous concretions; no charcoal; diffuse boundary to:	[35-44]
44 - 60/90	5YR 5/2 (reddish grey) with many medium distinct red mottles; silty clay loam; moderate medium subangular blocky breaking to moderate fine crumb, including few fine worm casts; no cutans; few fine pores; moist & friable; rare fine, medium & coarse tree roots; no stones; many fine & medium black ferrimanganiferous concretions; no charcoal; clear wavy boundary to:	[45-55] [55-65] [65-75] [75-85]
60/90 - 165+	Gley 1 8/10Y (light greenish grey) with common fine & medium prominent red mottles; silty clay loam; weak coarse platy breaking to fine crumb; no cutans; no pores visible; moist & friable; few medium & rare coarse & fine tree roots; no stones; no concretions; no charcoal:	[85-95] [95-105] [105-115] [115-125] [125-135] [135-145] [145-155] [155-165]

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: The upper horizons are redder > PR02, and the topsoil appears well drained. The horizon at 44-6-/90 is transitional from well drained topsoil to pale coloured subsoil. This pit spalled and slumped badly within 12 months.