

Soil pit description: PR03

Images: PR03_01.jpg

Soil class: Marron
Map unit: M
Location: 10 m NW of marker 19, Armour Trail
Site position: Midslope
Slope: 2%, linear, aspect 270°
Parent material: Andesite colluvial
Forest structure: Closed canopy, moderate understory, few palms
Litter: 100% cover, 4 layers, +/- no root mat
Outcrops: None
Stones: Common hard subrounded andesite boulders (to 30 cm diameter)
Cracks: None
Microrelief: None
Faunal activity: Common fine worm casts
Other surface features: None

Horizon		Samples
[cm]		[cm]
0 - 5	5YR 3/2 (dark reddish brown); no mottles; loam; moderate fine medium subangular blocky breaking to strong medium crumb, including common medium & fine worm casts; no cutans; common coarse pores; dry & friable; many fine & medium tree roots; many fine quartz gravel; no concretions; no charcoal; clear slightly wavy boundary to:	[0 - 5]
5 - 40	5YR 3/3 (dark reddish brown); no mottles; silty clay loam; strong medium subangular blocky breaking to strong medium crumb,; moderate continuous clayskins; common medium pores; dry & friable; common fine tree roots; many fine orange & red weathered andesite stones; common fine black ferrimanganiferous concretions; no charcoal; clear regular boundary to:	[5-40] [5-15] [15-25] [25-35]
40 - 65	7.5YR 3/3 (dark brown); no mottles; silty clay; moderate medium subangular blocky breaking to moderate fine crumb; weak discontinuous clayskins; common medium pores; slightly moist & slightly firm; few fine tree roots; common medium & coarse orange & red slightly hard weathered andesite stones; common fine & coarse black ferrimanganiferous concretions; no charcoal; diffuse boundary to:	[40-65] [35-45] [45-55] [55-65]
65 - 160	7.5YR 4/6 (strong brown); no mottles; gritty clay loam; weak medium platy breaking to moderate fine crumb; no cutans; common medium fine pores; slightly moist & firm; rare fine tree roots; few fine patches soft & slightly hard orange weathered andesite; common coarse black ferrimanganiferous concretions; no charcoal:	[65-160] [65-75] [75-85] [85-95] [95-105] [105-115] [115-125] [125-135] [135-145] [145-155]
160 - 200	7.5YR 4/4 (brown); no mottles; silty clay (loam), slightly moist & slightly firm; no stones	None
200 - 245	5YR 4/4 (reddish brown); no mottles; silty clay loam; slightly moist & firm; many coarse patches soft red weathered andesite & hard stones	None
245 - 270+	Mixed red, yellow, orange weathered rock with pockets of sandy loam &; slightly moist & firm	None

Correlations

Catapan

(1970): O C-X W Kc 1-2
 E A 1 0

**World
Reference**

Base: Ferralic Eutric Cambisol

Soil

Taxonomy: Mollic - Typic Eutrudept (- Eutrudox)

Features: Shows brown colours and stoniness of Marron. However, solum deeper than apparent in augering, which is usually stopped within top metre by stones. Also chroma/values are darker than in most Marrons, and this profile is transitional to Nemesia or Ava. High EBS' indicate that this soil is eutric throughout the solum.