

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** C27 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd
Date Desc.: 25/08/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Paradise
Elevation: 240 metres
Rainfall: 1258
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Tb
Conf. Sub. is Parent. Mat.: Confident
Substrate Material: Basalt

Land Form

Rel/Slope Class: Rolling hills 90-300m 10-32%
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 15 %
Pattern Type: Hills
Relief: No Data
Slope Category: Moderately inclined
Aspect: 54 degrees

Surface Soil Condition (dry): Soft, Firm

Erosion: No Data

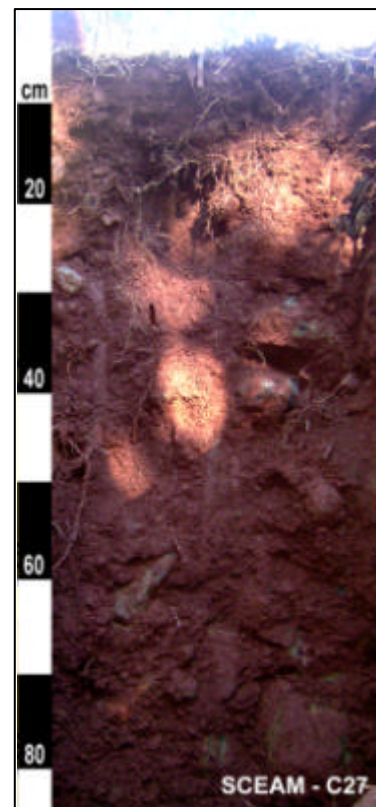
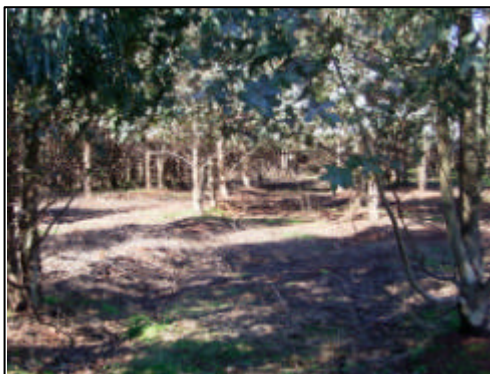
Soil Classification

Australian Soil Classification:
 Haplic Eutrophic Red Ferrosol Medium
 Moderately gravelly Clay-loamy Clayey Deep
ASC Confidence:
 Reasonable confidence.

Site Disturbance: Complete clearing.

Vegetation:

Surface Coarse Fragments: 10-20%, cobbly, 60-200mm



Profile Morphology

O	-0.01 - 0 m	Organic Layer;
AP	0 - 0.16 m	Dark reddish brown (5YR2.5/2-Moist); Clay loam; Strong grade of structure, 2-5 mm, Granular; Strong grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very weak consistence; Very plastic; Subplastic; Slightly sticky; 10-20%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Many, very fine (0-1mm) roots; Gradual,
AB	0.16 - 0.37 m	(/-Moist); Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; 10-20%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Common, medium (2-5mm) roots; Few, fine (1-2mm) roots; Gradual, Smooth change to -
B1	0.37 - 0.75 m	Dark reddish brown (2.5YR3/3-Moist); Light clay; Moderate grade of structure, 10-20 mm, Prismatic; Moderate grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; 10-20%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Common, medium (2-5mm) roots; Few, fine (1-2mm) roots; Gradual, Smooth change to -
B2	0.75 - m	Dark reddish brown (5YR3/4-Moist); Mottles, 0-2%, 0-5mm, Faint, 7.5YR5/6; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; 10-20%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, Nodules, Fine (0 - 2 mm) segregations; Few, medium (2-5mm) roots; Few, fine (1-2mm) roots;

Chemistry Data

			Organic C%	pH (H2O)	pH (CaCl2)	EC (dS/m)	Exchangeable Bases (meq/100g)				ECEC (meq/100g)	ESP %	Olsen P (mg/kg)	Total N %	Colwell_K (mg/kg)
							Ca	Mg	Na	K					
C27	0	to 75 mm	5.96	5.9	5.1	0.09	14.04	2.45	0.12	0.79	17.78	0.67	10.10	0.55	278
	150	to 225 mm	4.76	6.0	5.0	0.05	11.05	2.25	0.11	0.59	14.39	0.76	7.30	0.40	233
	400	to 650 mm	1.88	5.3	4.8	0.05	6.20	2.39	0.11	0.72	9.77	1.13	3.80	0.16	282
	750	to 950 mm	1.11	5.6	5.1	0.04	6.84	2.68	0.26	0.31	10.18	2.55	3.50	0.10	118