

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N1 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 22/06/04
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Scottsdale
Elevation: 150 metres
Rainfall: 1080
Runoff: Moderately rapid
Drainage: Well drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Tb

Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, Basalt

Land Form

Rel/Slope Class: Rolling low hills 30-90m 10-32%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 16 %

Pattern Type: Hills
Relief: No Data
Slope Category: Moderately inclined
Aspect: 30 degrees

Surface Soil Condition (dry): Soft

Erosion: Stable, Minor (sheet)

Soil Classification

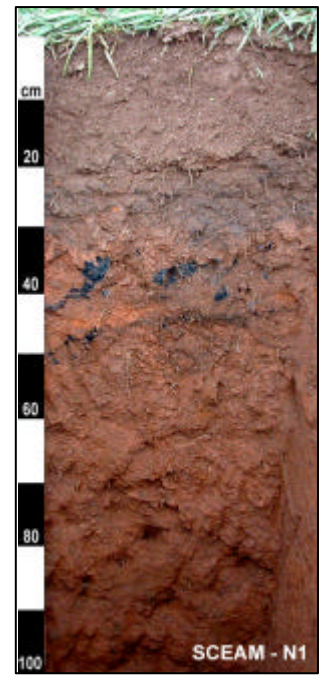
Australian Soil Classification:
 Haplic Mesotrophic Red Ferrosol Medium Non-gravelly
 Clay-loamy Very thick Very deep

ASC Confidence:
 Analytical data complete.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: No surface coarse fragments



Profile Morphology

A1	0 - 0.2 m	Dark reddish brown (5YR2.5/2-Moist); Clay loam; Strong grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Moderately plastic; Normal plasticity; Very sticky; Field pH 6.2 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
A3P	0.2 - 0.3 m	Dark reddish brown (5YR3/2-Moist); Mechanical, 0-2%, 5-15mm, Distinct, 5YR3/4; Clay loam; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moist; Weak consistence; Moderately plastic; Normal plasticity; Very sticky; Few cutans, <10% of ped faces or walls coated, faint; Cultivation pan, Weakly cemented, Continuous, Platy; Field pH 6.6 (pH meter); Common, very fine (0-1mm) roots; Sharp, Wavy
B1	0.3 - 0.5 m	Dark reddish brown (5YR3/3-Moist); Substrate influence, 2-10%, 30-mm, Distinct, 2.5YR3/6; Clay loam; Weak grade of structure, 20-50 mm, Lenticular; Rough-ped fabric; Moist; Weak consistence; Moderately plastic; Normal plasticity; Moderately sticky; Field pH 5.8 (pH meter); Common, very fine (0-1mm) roots; Gradual, Wavy change to -
B2	0.5 - 0.85 m	Dark reddish brown (5YR3/4-Moist); Light clay; Massive grade of structure; Smooth-ped fabric; Moist; Firm consistence; Very plastic; Subplastic; Moderately sticky; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B3	0.85 - 1.2 m	Dark reddish brown (5YR3/4-Moist); Light clay; Massive grade of structure; Smooth-ped fabric; crack; Moist; Firm consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 5.2 (pH meter);

Chemistry

			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					
0	to	75 mm	4.37	6.0	5.3	0.08	16.25	3.08	0.26	0.59	20.19	1.29	25.70	0.35	221
150	to	225 mm	3.28	5.9	5.3	0.11	13.57	3.01	0.32	0.36	17.36	1.84	15.90	0.30	140
300	to	450 mm	2.57	6.3	5.7	0.06	13.20	3.17	0.39	0.44	17.20	2.27	0.00	0.17	169
550	to	800 mm	0.87	6.2	5.7	0.06	6.89	3.00	0.33	0.34	10.56	3.13	0.00	0.08	125
900	to	1200 mm	0.71	5.2	4.6	0.06	3.79	2.36	0.17	0.16	7.19	2.36	0.00	0.07	61