

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: C10 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
 Date Desc.: 17/11/05
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:

Locality: North Motton
 Elevation: 140 metres
 Rainfall: 1108
 Runoff: Moderately rapid
 Drainage: Well drained

Geology

Exposure Type: Soil pit
 Geol. Ref.: Tertiary Basalt

Conf. Sub. is Parent. Mat.: Probable
 Substrate Material: Basalt

Land Form

Rel/Slope Class: Rolling low hills 30-90m
 Morph. Type: Upper-slope
 Elem. Type: Hillslope
 Slope: 12 %

Pattern Type: Hills
 Relief: No Data
 Slope Category: Gently inclined
 Aspect: 20 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:

Haplic Eutrophic Red Ferrosol Thick Non-gravelly Clay-loamy Clay-loamy Moderately deep

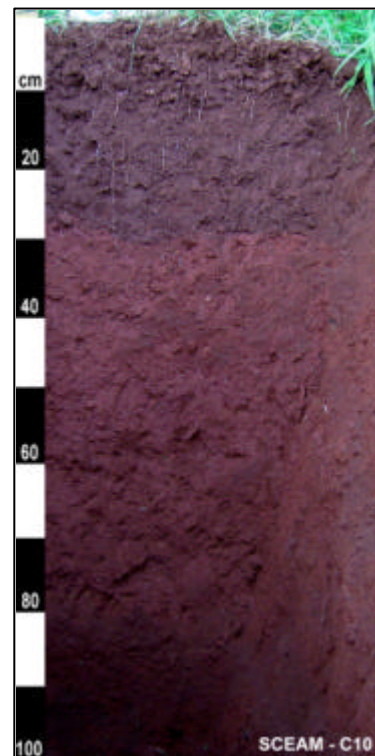
ASC Confidence:

All necessary analytical data are available.

Site Disturbance: Cleared/ cultivated

Vegetation: Pasture/ crop

Surface Coarse Fragments: None



Profile Morphology

A11p	0 - 0.12 m	Dark reddish brown (5YR3/4-Moist); Mottles, Clay loam; Strong grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Non-plastic; Moderately sticky; Common, very fine (0-1mm) roots; Clear, Smooth change to -
A12p	0.12 - 0.3 m	Dark reddish brown (5YR3/4-Moist); Clay loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Non-plastic; Moderately sticky; Very few (0 - 2 %), Ferromanganiferous, Nodules, Medium (2 - 6 mm) segregations; Common, very fine (0-1mm) roots; Sharp, Smooth change to -
B1t	0.3 - 0.6 m	Dark reddish brown (2.5YR3/4-Moist); Mottles, 0-2%, 0-5mm; Clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Firm consistence; Non-plastic; Moderately sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Nodules, Medium (2 - 6 mm) segregations; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B2t	0.6 - 1 m	Dark reddish brown (2.5YR3/4-Moist); Mottles, 0-2%, 0-5mm; Clay loam; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Firm consistence; Slightly plastic; Slightly sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Nodules, Medium (2 - 6 mm) segregations; Few, very fine (0-1mm) 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						
10	0	to	75 mm	4.32	6.0	5.4	0.06	14.34	2.34	0.19	1.01	18.02	1.05	51.50	0.40	419
	200	to	275 mm	4.28	6.2	5.4	0.06	14.50	2.11	0.19	0.85	17.68	1.07	39.70	0.39	349
	300	to	550 mm	1.28	5.5	4.8	0.07	7.49	0.60	0.27	0.15	8.84	3.05	3.50	0.17	46
	650	to	950 mm	0.98	5.5	4.9	0.06	6.37	0.33	0.25	0.12	7.34	3.41	2.90	0.12	39