

Project Name: **SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania**
 Project Code: **SCEAM** Site ID: **C14** Observation ID: **1**
 Agency Name: **TAS Department of Primary Industries and Water**

Site Information

Desc. By: C.J. Grose
 Date Desc.: 04/10/05
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:
 Locality: Spreyton
 Elevation: 22 metres
 Rainfall: 965
 Runoff: Moderately rapid
 Drainage: Moderately well drained

Geology

Exposure Type: Soil pit
 Geol. Ref.: Qh
 Conf. Sub. is Parent. Mat.: No Data
 Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
 Morph. Type: Simple-slope
 Elem. Type: Hillslope
 Slope: 8 %
 Pattern Type: Rises
 Relief: No Data
 Slope Category: Gently inclined
 Aspect: 60 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

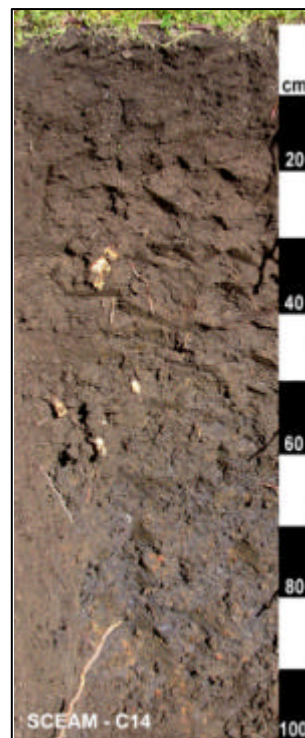
Soil Classification

Australian Soil Classification:
 Mottled Mesotrophic Black Dermosol Medium Non-gravelly
 Loamy Clayey Deep
ASC Confidence:
 Analytical data complete.

Site Disturbance: Complete clearing. Pasture.

Vegetation:

Surface Coarse Fragments: No surface coarse fragments



Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; Moderately plastic; Slightly sticky; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Clear, Smooth change to -
A3	0.1 - 0.28 m	Dark greyish brown (10YR4/2-Moist); Mechanical, 10-20%, 15-30mm, Faint, 10YR3/2; Clay loam (Light); Moderate grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Weak consistence; Moderately plastic; Slightly sticky; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B1	0.28 - 0.52 m	Very dark grey (10YR3/1-Moist); Mottles, 20-50%, 5-15mm, Distinct, 10YR5/6; Clay loam (Heavy); Moderate grade of structure, 50-100 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; Very plastic; Moderately sticky; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Common, coarse (>5mm) roots; Clear, Smooth change to -
B21g	0.52 - 0.79 m	(10R2.5/1-Moist); Mottles, 20-50%, 5-15mm, Distinct, 2.5Y5/4; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; Very plastic; Moderately sticky; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, fine (1-2mm) roots; Gradual, Smooth
B22g	0.79 - 1 m	(N4/0-Moist); Mottles, 20-50%, 5-15mm, Distinct, 2.5Y5/4; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; Very plastic; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, fine (1-2mm) roots;

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	2.72	7.0	6.3	0.07	11.31	4.20	0.07	0.58	16.26	0.43	0.00	0.21	241
200	to	275 mm	1.19	6.6	5.6	0.05	6.60	3.37	0.07	0.29	10.48	0.67	0.00	0.10	125
280	to	520 mm	0.38	4.7	3.9	0.04	0.80	2.23	0.24	0.14	13.67	1.76	0.80	0.05	59
520	to	790 mm	0.96	4.6	3.9	0.03	1.63	1.32	0.16	0.16	9.66	1.66	4.50	0.08	59
790	to	1000 mm	0.40	4.4	3.7	0.06	0.48	3.10	0.35	0.14	21.02	1.67	0.60	0.05	56