

Project Name: **SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania**
 Project Code: **SCEAM** Site ID: **N10** Observation ID: **1**
 Agency Name: **TAS Department of Primary Industries and Water**

Site Information

Desc. By: R. Moreton
 Date Desc.: 08/04/05
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:
 Locality: Near Ringarooma.
 Elevation: 239 metres
 Rainfall: 1192
 Runoff: Slow
 Drainage: Moderately well drained

Geology

Exposure Type: Soil pit
 Geol. Ref.: Devonian Granite
 Conf. Sub. is Parent. Mat.: Certain
 Substrate Material: Granite

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
 Morph. Type: Lower-slope
 Elem. Type: Hillslope
 Slope: 0 %
 Pattern Type: Alluvial fan
 Relief: No Data
 Slope Category: Level
 Aspect: 100 degrees

Surface Soil Condition (dry): Soft

Erosion: No Data

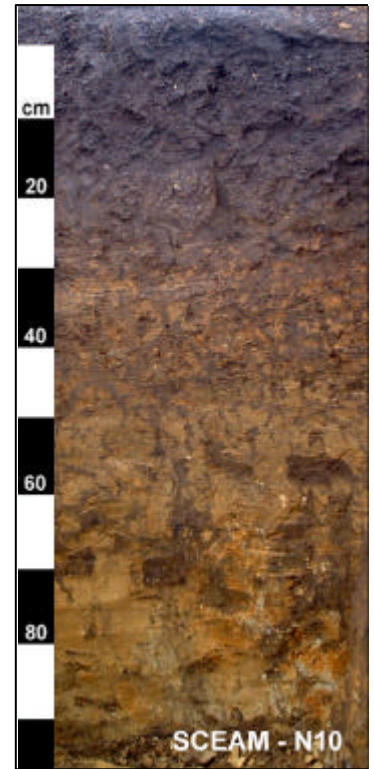
Soil Classification

Australian Soil Classification:
 Melanic-Mottled Eutrophic Brown Dermosol
 Medium Non gravelly Clay Loamy Clayey Moderate
ASC Confidence:
 All analytical data available

Site Disturbance: Complete clearing.

Vegetation:

Surface Coarse Fragments: 0-2%, medium gravelly
 6-20mm



Profile Morphology

A1	0 - 0.17 m	Black (5YR2.5/1-Moist); Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Moderate grade of structure, <2 mm, Polyhedral; Earthy fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Very weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Field pH 6.4 (pH meter); Many, very fine (0-1mm) roots; Abrupt, Smooth change to -
A3	0.17 - 0.28 m	Dark reddish brown (5YR2.5/2-Moist); Biological mixing, 2-10%, 0-5mm, Faint, 5YR2.5/1; Clay loam; Moderate grade of structure, 20-50 mm, Platy; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Other pans, Weakly cemented, Continuous, Platy; Field pH 5.9 (pH meter); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21t	0.28 - 0.5 m	Dark yellowish brown (10YR3/4-Moist); Substrate influence, 20-50%, 5-15mm, Distinct, 5YR3/3; Mottles, 0-2%, 0-5mm, Distinct, 2.5YR4/8; Silty clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Dry; Weak consistence; Non-plastic; Very sticky; Field pH 5.1 (pH meter); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -
B22t	0.5 - 0.82 m	Yellowish brown (10YR5/8-Moist); Substrate influence, 10-20%, 5-15mm, Distinct, 5YR3/3; Mottles, 0-2%, 0-5mm, Distinct, 5YR3/3; Light clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; Very plastic; Normal plasticity; Very sticky; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.1 (pH meter); Gradual, Smooth change to -
BC	0.82 - 0.95 m	Yellow (2.5Y7/8-Moist); Light clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Very plastic; Normal plasticity; Very sticky; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 4.7 (pH meter);

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					
N10	0	to 75 mm	4.71	5.5	4.8	0.14	9.65	0.99	0.10	0.43	11.56	0.87	48.30	0.35	178
	150	to 225 mm	4.65	5.5	4.9	0.11	9.48	0.96	0.09	0.37	11.35	0.79	42.70	0.35	160
	280	to 500 mm	1.77	5.1	4.4	0.04	0.87	0.13	0.06	0.12	4.89	1.23	3.30	0.14	49
	550	to 800 mm	1.07	5.1	4.4	0.04	0.65	0.14	0.05	0.14	4.61	1.08	1.40	0.08	52