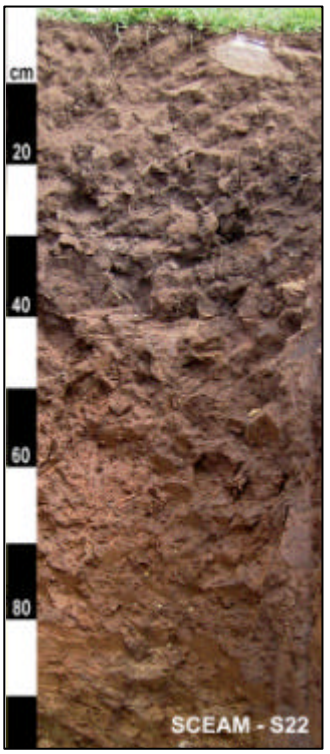
Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S22 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water



Site Information

Desc. By: R. Moreton
Date Desc.: 08/12/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Richmond
Elevation: 114 metres
Rainfall: 540
Runoff: Very rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Triassic Sandstone
Conf. Sub. is Parent. Mat.: Probable
Substrate Material: Sandstone

Land Form

Rel/Slope Class: Steep hills 90-300m 32-56%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 30 %
Pattern Type: Hills
Relief: No Data
Slope Category: Moderately inclined
Aspect: 10 degrees

Surface Soil Condition (dry): Firm

Erosion: Active, Moderate (sheet)

Soil Classification

Australian Soil Classification:
Sodic Eutrophic Brown Dermosol Medium Non-gravelly Clay-loamy Clayey Moderately deep
ASC Confidence:
All necessary analytical data are available.

Site Disturbance: Extensive clearing

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, , ; 2-10%, stony, 200-600mm, ,

Profile Morphology

A1	0 - 0.18 m	Very dark brown (10YR2/2-Moist); Sandy clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; 0-2%, cobbly, 60-200mm, subangular, dispersed, coarse fragments; Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1	0.18 - 0.42 m	Very dark greyish brown (10YR3/2-Moist); Clay loam; Strong grade of structure, 50-100 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Very strong consistence; Moderately plastic; Subplastic; Very sticky; 0-2%, coarse gravelly, 20-60mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear, Wavy change to -
B2	0.42 - 0.78 m	Brown (10YR4/3-Moist); Dark yellowish brown (10YR4/4-Dry); Biological mixing, 2-10%, 5-15mm, Distinct, 10YR3/3; Medium clay (Light); Strong grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Moist; Very firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Clear, Smooth change to -
B3	0.78 - 0.89 m	Brown (10YR4/3-Moist); Light yellowish brown (10YR6/4-Dry); Medium clay; Massive grade of structure; Rough-ped fabric; Moist; Firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; Abrupt, Smooth change to -
C	0.89 - 1.05 m	Light olive brown (2.5Y5/4-Moist); Substrate influence, 2-10%, 5-15mm, Prominent, 7.5YR5/8; Sandy light clay; Massive grade of structure; Rough-ped fabric; Moderately moist; Weak consistence; Moderately plastic; Moderately sticky;

Chemistry Data

				Organic C%	pH (H20)	pH (CaCl2)	EC (dS/m)	Exchangeable Bases (meq/100g) Ca	Mg	Na	K	ECEC (meq/100g)	ESP %	Olsen P (mg/kg)	Total N %	Colwell_K (mg/kg)
22																
0	to	75	mm	3.09	6.4	5.3	0.06	11.39	5.36	0.60	1.02	18.42	3.26	2.80	0.22	440
180	to	420	mm	1.64	7.0	5.7	0.05	9.27	11.99	1.31	0.45	23.05	5.68	1.00	0.11	220
420	to	780	mm	0.76	7.5	6.4	0.15	8.19	15.64	3.07	0.40	27.33	11.23	0.60	0.08	164
780	to	890	mm	0.45	8.0	7.1	0.25	6.75	15.49	4.30	0.46	27.03	15.91	0.90	0.05	167
890	to	1050	mm	0.28	9.0	8.1	0.52	8.03	13.32	4.59	0.44	26.40	17.39	0.50	0.05	171