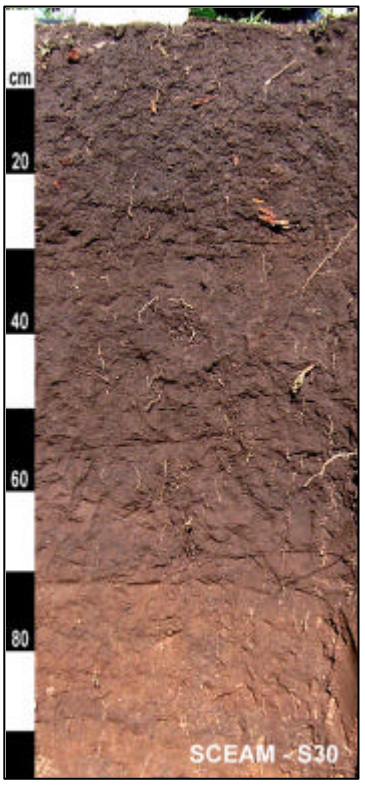
Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S30 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water



Site Information

Desc. By: R. Moreton
Date Desc.: 28/03/06
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Swansea
Elevation: 11 metres
Rainfall: 603
Runoff: Moderately rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Quaternary Alluvium
Conf. Sub. is Parent. Mat.: Probable
Substrate Material: Alluvium

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: Flat
Elem. Type: Terrace plain
Slope: 2 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
Aspect: 150 degrees

Surface Soil Condition (dry): Soft

Erosion: No Data

Soil Classification

Australian Soil Classification:
Melanic Eutrophic Black Dermosol Thick Non-gravelly Clay-loamy Clay-loamy Deep

ASC Confidence:
All necessary analytical data are available.

Site Disturbance: Extensive clearing

Vegetation:

Surface Coarse Fragments: None

Profile Morphology

A1	0 - 0.32 m	Black (10YR2/1-Moist); Very dark greyish brown (10YR3/2-Dry); Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Moist; Very weak consistence; Non-plastic; Slightly sticky; Common, very fine (0-1mm) roots; Clear, Smooth change to -
A3	0.32 - 0.55 m	Very dark grey (10YR3/1-Moist); Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Non-plastic; Slightly sticky; Few, fine (1-2mm) roots; Gradual, Smooth change to -
AB	0.55 - 0.68 m	Very dark brown (10YR2/2-Moist); Mottles, 2-10%, 5-15mm, Distinct, 7.5YR4/4; Clay loam; Strong grade of structure, 2-5 mm, Polyhedral; Strong grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moist; Weak consistence; Non-plastic; Slightly sticky; Few, fine (1-2mm) roots; Clear, Smooth change to -
B2t	0.68 - 0.95 m	(/-Moist); Mottles, 2-10%, 0-5mm, Distinct, 7.5YR3/4; Fine sandy clay loam; Moderate grade of structure, <2 mm, Polyhedral; Weak grade of structure, 5-10 mm, Subangular blocky; Sandy (grains prominent) fabric; Moist; Very weak consistence; Non-plastic; Slightly sticky; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B3t	0.95 - 1.2 m	Very dark brown (10YR2/2-Moist); Mottles, 10-20%, 5-15mm, Distinct, 7.5YR4/4; Sandy loam; Moderate grade of structure, 2-5 mm, Polyhedral; Moderate grade of structure, 20-50 mm, Angular blocky; Sandy (grains prominent) fabric; Moist; Very weak consistence; Non-plastic; Slightly sticky; Few, very fine (0-1mm) roots;

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)
0	to	75 mm	6.75	6.2	5.4	0.11	24.82	7.69	0.38	1.38	34.44	1.10	20.90	0.59	561
200	to	275 mm	5.13	6.6	5.7	0.05	24.18	8.77	0.44	0.30	33.77	1.30	7.10	0.38	120
350	to	550 mm	3.09	7.3	6.3	0.15	24.79	11.79	0.50	0.09	37.19	1.34	1.80	0.28	46
550	to	680 mm	2.28	7.6	6.5	0.13	20.87	10.60	0.68	0.09	32.26	2.11	2.20	0.21	42
680	to	950 mm	1.31	7.4	6.2	0.10	14.69	9.03	0.62	0.08	24.44	2.54	1.30	0.08	39
950	to	1200 mm	0.74	7.6	6.9	0.07	10.49	7.35	0.49	0.07	18.42	2.66	2.40	0.09	39