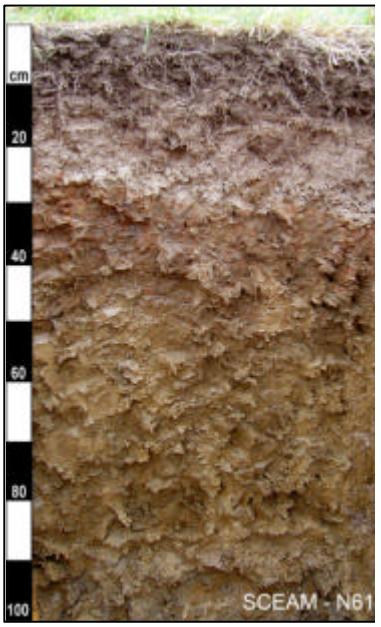
Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N61 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 10/11/06
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Symmons Plains
Elevation: 160 metres
Rainfall: 610
Runoff: Very slow
Drainage: Poorly drained



Geology

ExposureType: Soil pit
Geol. Ref.: Ts

Conf. Sub. is Parent. Mat.: Certain
Substrate Material: Alluvium

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 0 %
Aspect: 0

Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Mesonatric Brown Sodosol Medium Non-gravelly Silty Clayey Deep

ASC Confidence:
All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1p	0 - 0.17 m	Very dark greyish brown (10YR3/2-Moist); Silty loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate 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; Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Smooth change
A2p	0.17 - 0.28 m	Yellowish brown (10YR5/4-Moist); White (2.5Y8/1-Dry); Mottles, 2-10%, 0-5mm, Distinct, 10YR5/1; Silty loam; Weak grade of structure, <2 mm, Angular blocky; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Very weak consistence; Non-plastic; Slightly sticky; Common (10 - 20 %), Ferromanganiferous, Nodules, Coarse (6 - 20 mm) segregations; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1t	0.28 - 0.5 m	Dark greyish brown (10YR4/2-Moist); Mottles, 20-50%, 15-30mm, Prominent, 2.5YR3/6; Mottles, 10-20%, 15-30mm, Distinct, 10YR4/4; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B2t	0.5 - 0.95 m	Reddish brown (2.5YR5/4-Moist); Mottles, 0-2%, 5-15mm, Distinct, 10YR5/8; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moist; Firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Manganiferous, Root linings, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B3t	0.95 - 1.1 m	Greyish brown (2.5Y5/2-Moist); Mottles, 10-20%, 5-15mm, Distinct, 10YR5/6; Medium clay; Massive grade of structure; Moist; Firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Manganiferous, Root linings, Medium (2 -6 mm) segregations;

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	2.01	6.6	6.1	0.07	5.22	0.60	0.11	0.67	6.66	1.65	30.70	0.15	253
200	to	275	mm	1.33	5.8	5.3	0.05	3.42	0.42	0.10	0.28	4.33	2.31	22.70	0.12	117
300	to	500	mm	0.51	7.7	6.7	0.10	6.47	13.62	2.44	0.40	22.97	10.62	0.80	0.11	139
500	to	800	mm	0.24	7.7	6.9	0.15	4.08	13.58	3.64	0.30	21.70	16.77	0.60	0.08	99
800	to	950	mm	0.22	7.7	6.9	0.21	3.96	14.84	4.78	0.26	23.87	20.03	0.60	0.11	99
950	to	1100	mm	0.23	7.5	6.4	0.33	3.54	12.59	5.92	0.32	22.41	26.42	1.80	0.09	110