

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: N8 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
 Date Desc.: 24/08/04
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:
 Locality: Perth
 Elevation: 200
 Rainfall: 630
 Runoff: Very slow
 Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
 Morph. Type: Flat
 Elem. Type: Terrace plain
 Slope: 1 %
 Pattern Type: Alluvial plain
 Relief: No Data
 Slope Category: Level
 Aspect: 45 degrees

Surface Soil Condition (dry): Soft

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Mottled-Sodic Eutrophic Grey Kandosol Medium
 Non-gravelly Silty Clayey Deep

ASC Confidence:

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Complete clearing. Pasture, cultivated.

Vegetation:

Surface Coarse Fragments: No surface coarse fragments



Profile Morphology

A1	0 - 0.07 m	Very dark greyish brown (10YR3/2-Moist); Silty loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moist; Weak consistence; Slightly plastic; Moderately sticky; Field pH 6.6 (pH meter); Few, fine (1-2mm) roots; Sharp, Smooth change to -
A2	0.07 - 0.11 m	Brown (10YR5/3-Moist); Mottles, 0-2%, 0-5mm, Faint, 10YR5/6; Silty clay loam (Light); Massive grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, macropores, Moist; Very weak consistence; Non-plastic; Very sticky; Very few (0 - 2 %), Ferruginous, Concretions, Medium (2 -6 mm) segregations; Densipan, Moderately cemented, Discontinuous, Massive; Field pH 5.4 (pH meter); Few, very fine (0-1mm) roots; Sharp, Smooth change to -
B1	0.11 - 0.2 m	Brown (10YR4/3-Moist); Mottles, 0-2%, 5-15mm, Faint, 10YR5/6; Light clay (Light); Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moist; Firm consistence; Very plastic; Moderately sticky; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Irregular change to -
B21	0.2 - 0.9 m	Greyish brown (10YR5/2-Moist); Mottles, 20-50%, 15-30mm, Distinct, 10R4/8; Light clay; Massive grade of structure; Smooth-ped fabric; Moist; Very firm consistence; Very plastic; Very sticky; Field pH 5.7 (pH meter); Gradual, Irregular change to -
B22	0.9 - 1.15 m	Greyish brown (10YR5/2-Moist); Mottles, 10-20%, 15-30mm, Distinct, 10R4/8; Light clay; Massive grade of structure; Smooth-ped fabric; Moist; Very firm consistence; Very plastic; Very sticky; Field pH 5.3 (pH meter); Gradual, Irregular change to -
B3	1.15 - 1.6 m	Brown (10YR4/3-Moist); Mottles, 10-20%, 5-15mm, Distinct, 10R4/8; Medium clay (Light); Massive grade of structure; Smooth-ped fabric; Moist; Very firm consistence; Very plastic; Very sticky; Field pH 4.7 (pH meter);

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					
N8	0	to 75 mm	3.62	6.0	5.5	0.14	6.97	1.16	0.17	0.38	8.89	1.91	44.50	0.30	160
	175	to 225 mm	0.70	5.3	4.3	0.06	1.74	1.34	0.18	0.26	4.24	4.25	6.50	0.04	125
	110	to 200 mm	0.87	5.8	4.6	0.09	5.58	11.72	1.17	0.33	20.38	5.74	1.30	0.11	120
	250	to 850 mm	0.67	5.7	4.6	0.11	3.68	12.00	1.96	0.29	20.12	9.74	1.30	0.09	103