Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** C22 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 18/04/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Near Montagu
Elevation: 7 metres
Rainfall: 1065
Runoff: Very slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Qa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Flat
Elem. Type: Fan
Slope: 1 %
Pattern Type: Alluvial fan
Relief: No Data
Slope Category: Level
Aspect: 5 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
Basic Arenic Inceptic Tenosol Medium Non-gravelly Loamy Sandy Moderately deep

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm

Profile Morphology

A1	0 - 0.2 m	Black (10YR2/1-Moist); Sandy loam; Moderate grade of structure, 5-10 mm, Polyhedral; Weak grade of structure, <2 mm, Polyhedral; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Slightly sticky; Field pH 6.6 (pH meter); Many, fine (1-2mm) roots; Gradual, Smooth change to -
A3	0.2 - 0.4 m	Black (10YR2/1-Moist); Sandy clay loam; Weak grade of structure, 50-100 mm, Angular blocky; Weak grade of structure, 20-50 mm, Angular blocky; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very weak consistence; Non-plastic; Slightly sticky; Cultivation pan, Uncemented, Continuous, Concretionary; Field pH 6.6 (pH meter); Common, very fine (0-1mm) roots; Clear, Smooth change to -
2B1	0.4 - 0.52 m	Black (10YR2/1-Moist); Silty clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; Organic pan, Weakly cemented, Continuous, Massive; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
2B2	0.52 - 0.75 m	Black (10YR2/1-Moist); 0-2%, 5-15mm, Distinct, 10YR5/1; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very weak consistence; Non-plastic; Slightly sticky; Field pH 6.9 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
2BC	0.75 - 1.1 m	Dark grey (10YR4/1-Moist); Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Non-plastic; Slightly sticky; Field pH 7 (pH

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_P (mg/kg)
C22															
0	to	75 mm	4.89	6.2	5.4	0.17	12.35	5.51	0.53	0.31	18.70	2.83	0.00	0.52	210
200	to	275 mm	2.69	6.6	5.7	0.09	13.12	5.31	0.47	0.19	19.09	2.46	0.00	0.21	80
400	to	520 mm	1.57	7.2	6.6	0.10	11.29	4.21	0.45	0.14	16.23	2.77	4.00	0.16	54
520	to	750 mm	0.77	6.8	6.2	0.09	7.18	3.29	0.34	0.09	10.99	3.09	2.30	0.09	43