Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S8 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 04/04/06
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Kempton
Elevation: 136 metres
Rainfall: 521
Runoff: Very slow
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Rolling rises 9-30m 10-32%
Morph. Type: Flat
Elem. Type: Terrace flat
Slope: %
Pattern Type: Terraced land (alluvial)
Relief: No Data
Slope Category: Very gently sloped
Aspect: No Data

Surface Soil Condition (dry): Recently cultivated

Erosion: No Data

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Black Dermosol Medium Non-gravelly Loamy Clayey Deep
ASC Confidence:
All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture

Vegetation:

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm

Profile Morphology

Ap	0 - 0.18 m	Black (5YR2.5/1-Moist); Dark greyish brown (10YR4/2-Dry); Loam; Strong grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1t	0.18 - 0.32 m	Black (7.5YR2/1-Moist); Substrate influence, 2-10%, 0-5mm, Prominent, 5YR3/3; Clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Non-plastic; Very sticky; Few (2 - 10 %), Manganiferous, Nodules, Fine (0 - 2 mm) segregations; Few, very fine (0-1mm) roots; Clear, Smooth change to
B2t	0.32 - 0.7 m	Black (7.5YR2/1-Moist); Mottles, 0-2%, 0-5mm, Faint, 10YR4/2; Silty clay loam; Moderate grade of structure, 20-50 mm, Platy; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Firm consistence; Non-plastic; Moderately sticky; 0-2%, coarse gravelly, 20-60mm, rounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear, Smooth change to -
B31t	0.7 - 0.87 m	Dark brown (7.5YR3/2-Moist); Clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; Non-plastic; Very sticky; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; Sharp, Smooth change to -
B32	0.87 - 1.1 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 2-10%, 5-15mm, Distinct, 10YR2/1; Light medium clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Very plastic; Normal plasticity; Very sticky; Fewcutans, <10% of ped faces or walls coated, faint;

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	2.82	6.7	6.0	0.08	19.00	6.29	0.43	0.47	26.30	1.63	21.10	0.24	199
200	to	275	mm	2.08	6.8	5.9	0.06	16.82	6.07	0.42	0.27	23.68	1.77	8.70	0.15	104
350	to	700	mm	2.13	7.7	6.6	0.10	19.96	7.48	0.53	0.20	28.20	1.88	5.70	0.14	88
700	to	870	mm	0.92	7.6	6.9	0.08	13.48	8.10	0.52	0.28	22.41	2.32	4.50	0.08	106
870	to	110	mm	0.50	7.9	6.8	0.07	16.41	12.62	0.81	0.44	30.29	2.67	4.80	0.06	156