

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

Exposure Type: 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

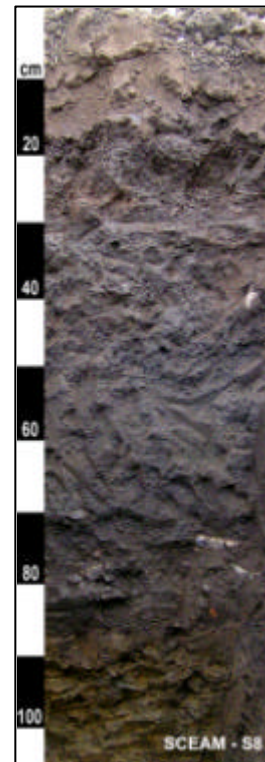
ASC Confidence:

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture

Vegetation:

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



Profile Morphology

Profile	Depth (m)	Description
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 100mm ²) 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 100mm ²) 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 100mm ²) 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; Few cutans, <10% of ped faces or walls coated, faint;

Chemistry Data

	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					
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