

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: S17 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: Susan tate
 Date Desc.: 20/05/05
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:
 Locality: Near Richmond
 Elevation: 62 metres
 Rainfall: 538
 Runoff: Moderately rapid
 Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Rolling low hills 30-90m 10-32%
 Morph. Type: Mid-slope
 Elem. Type: Hillslope
 Slope: 15 %
 Pattern Type: Hills
 Relief: No Data
 Slope Category: Very gently sloped
 Aspect: 272 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

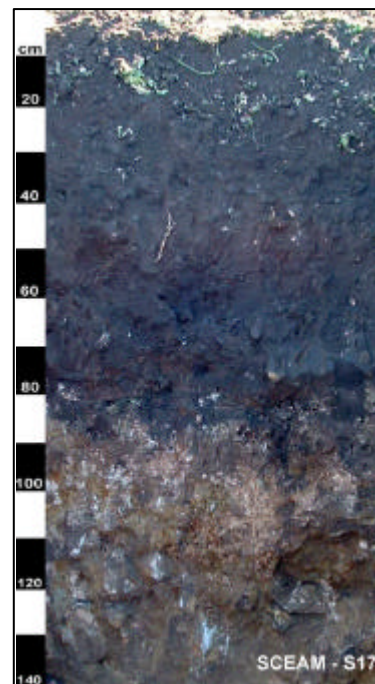
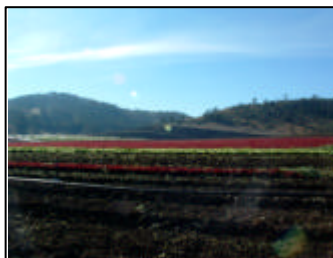
Australian Soil Classification:
 Haplic Eutrophic Brown Dermosol Thick Gravelly Clayey
 Clayey Deep

ASC Confidence:
 reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm



Profile Morphology

A1	0 - 0.18 m	Very dark grey (7.5YR3/1-Moist); Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Non-plastic; Slightly sticky; 2-10%, subrounded, dispersed, coarse fragments; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A3	0.18 - 0.4 m	(/Moist); Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Firm consistence; Non-plastic; Slightly sticky; 2-10%, subangular, dispersed, coarse fragments; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -
B2t	0.4 - 0.66 m	(/Moist); Substrate influence, 2-10%, 0-5mm, Prominent, 7.5YR5/6; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; 10-20%, subangular, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 6.9 (pH meter); Common, very fine (0-1mm) roots; Clear,
B3t	0.66 - 0.8 m	Dark brown (7.5YR3/3-Moist); Mottles, 2-10%, 5-15mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Platy; Rough-ped fabric; Moderately moist; Very firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; 10-20%, subangular, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 8.5 (pH meter); Common, very fine (0-1mm) roots; Sharp, Smooth change to -
C	0.8 - 1.5 m	Pinkish white (5YR8/2-Moist); Substrate influence, 20-50%, 15-30mm, Prominent, 7.5YR5/8; Rough-ped fabric; Moderately moist; Very weak consistence; 50-90%, coarse gravelly, 20-60mm, angular platy, dispersed, Dolomite, coarse fragments; Field pH 9.1 (pH meter); Common, very fine (0-1mm) roots;

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					
S17 0 to 75 mm	3.05	5.9	5.3	0.10	16.40	7.92	0.43	0.57	25.40	1.69	44.40	0.25	236
150 to 225 mm	3.05	6.1	5.3	0.09	16.68	8.30	0.48	0.55	26.17	1.83	44.50	0.19	232
400 to 600 mm	1.26	7.1	6.3	0.09	18.90	13.31	0.85	0.27	33.46	2.54	2.90	0.13	93
650 to 800 mm	0.79	8.1	7.6	0.22	25.33	18.17	1.39	0.33	45.24	3.07	2.60	0.08	115