

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** C33 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: H. Hawkins
Date Desc.: 28/08/06
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Wesley Vale
Elevation: 101 metres
Rainfall: 852
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Tertiary Basalt

Conf. Sub. is Parent. Mat.: Probable
Substrate Material: Soil pit, Basalt

Land Form

Rel/Slope Class: Rolling low hills 30-90m
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 19 %

Pattern Type: Low hills
Relief: No Data
Slope Category: Moderately inclined
Aspect: No Data

Surface Soil Condition (dry): Soft

Erosion: None

Soil Classification

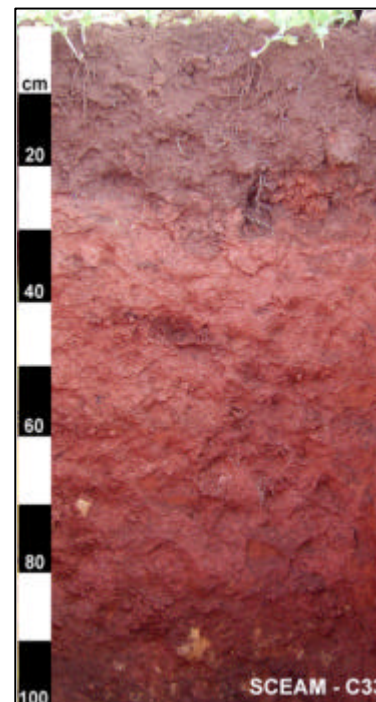
Australian Soil Classification:
 Haplic Eutrophic Red Ferrosol Thin Slightly gravelly
 Clay-loamy Clayey Deep

ASC Confidence:
 All necessary analytical data are available.

Site Disturbance: Cultivation. Rainfed

Vegetation: Crop/ Pasture

Surface Coarse Fragments: None



Profile Morphology

Ap	0 - 0.19 m	Dusky red (2.5YR3/2-Moist); Clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Weak consistence; Moderately plastic; Normal plasticity; Non-sticky; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, Basalt, coarse fragments; Many, fine (1-2mm) roots; Many, very fine (0-1mm) roots; Clear, Wavy change to -
B21t	0.19 - 0.58 m	Dark red (2.5YR3/6-Moist); Mottles, 2-10%, 5-15mm, Distinct, 2.5YR3/2; Light clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moderately moist; Firm consistence; Moderately plastic; Normal plasticity; Slightly sticky; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Many, very fine (0-1mm) roots; Gradual, Wavy change to -
B22t	0.58 - 0.91 m	Dark red (2.5YR3/6-Moist); Light clay (Heavy); Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Coarse (>5mm) macropores, Moderately moist; Firm consistence; Moderately plastic; Normal plasticity; Slightly sticky; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Many, very fine (0-1mm) roots; Clear, Wavy change to -
BC	0.91 - 1.05 m	Dark red (2.5YR3/6-Moist); Substrate influence, 10-20%, 5-15mm, Faint, 2.5YR4/8; Light clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moderately moist; Firm consistence; Moderately plastic; Normal plasticity; Slightly sticky; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated,

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	3.39	6.4	5.7	0.16	18.21	3.01	0.67	2.08	24.09	2.78	113.20	0.32	820
200	to	275 mm	2.04	6.8	6.2	0.27	17.41	2.52	0.75	0.62	21.40	3.50	27.00	0.19	260
400	to	580 mm	0.81	6.5	6.3	0.12	9.67	1.81	0.74	0.13	12.59	5.88	4.60	0.08	45
600	to	900 mm	0.50	6.9	6.8	0.10	8.92	1.77	0.80	0.13	11.84	6.76	6.70	0.06	44
900	to	1050 mm	0.48	6.9	6.8	0.11	8.66	1.73	0.76	0.17	11.34	6.70	9.50	0.06	74