

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S23 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Fisheries

Site Information

Desc. By:	R. Moreton	Locality:	"Ballochmylle", near Tunbridge. R & C Headlam
Date Desc.:	25/07/05	Elevation:	207 metres
Map Ref.:	GPS S.A. Off	Rainfall:	450
Northing/Long.:	5333867 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	537628 Datum: GDA94	Drainage:	Imperfectly drained

Geology

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

Landform

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
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Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Terrace flat	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification:	Sodic Eutrophic Brown Dermosol Medium Non-gravelly Loamy Clayey Deep	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	N/A
		Great Soil Group:	N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

1A1	0 - 0.18 m	Dark brown (7.5YR3/4-Moist); , 0-0% ; Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral;
		Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Non-plastic; Slightly sticky; Field pH 6.1 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
1B1	0.18 - 0.4 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky;
		Strong grade of structure, 10-20 mm; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Moderately plastic; Normal plasticity; Very sticky; Field pH 7.3 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
1B2	0.4 - 0.52 m	Dark brown (10YR3/3-Moist); Mottles, 10YR21, 2-10% , 0-5mm, Distinct; Light clay; Massive grade of
		structure; Rough-ped fabric; Dry; Strong consistence; Moderately plastic; Normal plasticity; Very sticky; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Veins; Field pH 8.9 (pH meter); Abrupt, Smooth change to -
2A1b	0.52 - 0.7 m	Black (2.5Y2/1-Moist); Biological mixing, 7.5YR46, 2-10% , 0-5mm, Distinct; Medium clay (Light);
		Massive grade of structure; Rough-ped fabric; Moderately moist; Strong consistence; Moderately plastic; Normal plasticity; Very sticky; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Veins; Field pH 8.7 (pH meter); Gradual, Smooth change to -
2B1b	0.7 - 1 m	Olive brown (2.5Y3/3-Moist); Biological mixing, 7.5YR46, 2-10% , 0-5mm, Distinct; Light clay; Moderate

Strong consistence;	grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist;
or walls coated,	Moderately plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces
	distinct; Field pH 8.6 (pH meter); Abrupt, Smooth change to -
2B2bg 1 - 1.2 m	Dark grey (2.5Y4/1-Moist); Biological mixing, 7.5YR46, 2-10% , 0-5mm, Distinct; Light
clay; Strong	
consistence; Slightly	grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Firm
coated, distinct;	plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls
	Field pH 8.2 (pH meter);

Morphological Notes

1A1	Salinity: 0 dSm-1
1B1	Salinity: 0.1 dSm-1
1B2	Salinity: 0.2 dSm-1
2A1b	Rusty root mottle in lower >52cm of profile. Evidence of infilled/rusty coloured root
channels in	
	lower half of profile. Salinity: 0.6 dSm-1
2B1b	Salinity: 0.6 dSm-1
2B2bg	Salinity: 1.2 dSm-1

Observation Notes

Substrate not reached. Vegetation: Pasture.

Site Notes

Geomorphic Activity: Aggraded. Geomorphic Agent: Over-bank Stream. Inundation frequency: None.