

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S25 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 01/03/06
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Richmond.
Elevation: 28 metres
Rainfall: 514
Runoff: No runoff
Drainage: Imperfectly drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Triassic Sandstone
Conf. Sub. is Parent. Mat.: Probable
Substrate Material: Alluvium

Land Form

Rel/Slope Class: Gently undulating plains <9m
 1-3%
Pattern Type: Alluvial fan

Morph. Type: Lower-slope
Elem. Type: Valley flat
Slope: 1 %
Relief: No Data
Slope Category: Very gently sloped
Aspect: 50 degrees

Surface Soil Condition (dry): Loose

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Sodic Eutrophic Brown Kandosol Medium Non-gravelly

Clay-loamy Clayey Deep

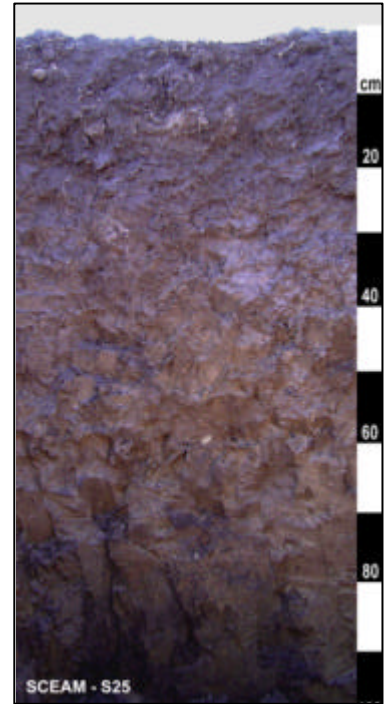
ASC Confidence:

All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated/ crop

Vegetation:

Surface Coarse Fragments: None



Profile Morphology

Ap	0 - 0.18 m	Very dark brown (10YR2/2-Moist); Grey (10YR5/1-Dry); Fine sandy clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Moderate grade of structure, <2 mm, Polyhedral; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; Non-plastic; Slightly sticky; Common, very fine (0-1mm) roots; Clear, Smooth change to -
AB	0.18 - 0.29 m	Very dark grey (10YR3/1-Moist); Greyish brown (10YR5/2-Dry); Mottles, 2-10%, 0-5mm, Distinct, 10YR4/4; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Common (1-5 per 100mm ²) Medium (2-5mm) macropores, Moderately moist; Firm consistence; Slightly plastic; Slightly sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1t	0.29 - 0.56 m	Dark yellowish brown (10YR4/4-Moist); Light brownish grey (10YR6/2-Dry); Mottles, 2-10%, 5-15mm, Faint, 10YR3/2; Light clay; Massive grade of structure; Earthy fabric; Moist; Strong consistence; Moderately plastic; Normal plasticity; Moderately sticky; Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B2t	0.56 - 1 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 2-10%, 0-5mm, Faint, 10YR5/6; Light medium clay; Massive grade of structure; Earthy fabric; Moist; Very firm consistence;

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					
S25	0 to 75 mm	2.08	5.8	4.7	0.07	5.71	4.75	0.65	0.29	11.52	5.64	18.20	0.15	116
	200 to 275 mm	1.57	6.0	4.8	0.08	5.65	6.08	1.14	0.24	13.23	8.62	7.00	0.09	90
	290 to 560 mm	0.61	6.2	4.8	0.15	3.12	12.73	2.65	0.19	18.93	14.00	0.70	0.06	66
	560 to 860 mm	0.38	6.1	5.0	0.25	2.49	11.45	3.38	0.19	17.67	19.13	0.70	0.04	78
	860 to 1000 mm	0.19	7.3	6.1	0.35	2.91	14.60	5.62	0.29	23.45	23.97	0.60	0.03	115