

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S66 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: H. Hawkins
Date Desc.: 12/09/06
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Judbury
Elevation: 11 metres
Rainfall: 754
Runoff: Very slow
Drainage: Imperfectly drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Quaternary Alluvium
Conf. Sub. is Parent. Mat.: Reasonable
Substrate Material: Alluvium

Land Form

Rel/Slope Class: Gently undulating rises 9-30m
 1-3%
Pattern Type: Plain
Morph. Type: Flat
Elem. Type: Terrace plain
Relief: No Data
Slope: 1 %
Aspect: 15
Slope Category: Level

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Mottled Eutrophic Grey Dermosol Medium Non-gravelly
 Loamy Clayey Deep

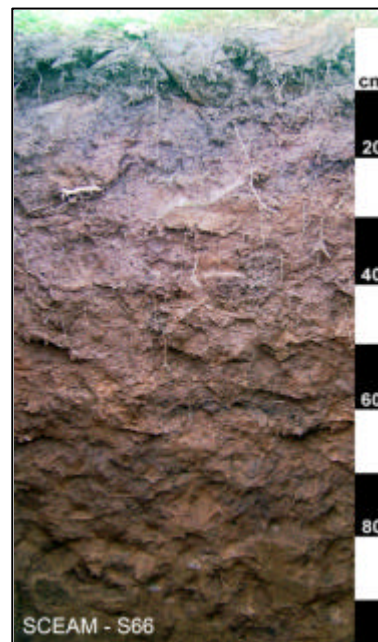
ASC Confidence:

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: No surface coarse fragments



Profile Morphology

A1	0 - 0.18 m	Dark brown (7.5YR3/2-Moist); Mottles, 2-10%, 5-15mm, Faint, 7.5YR4/1; Clay loam; Moderate grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Moderately plastic; Slightly sticky; Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, coarse (>5mm) roots; Gradual, Wavy
B2	0.18 - 0.52 m	Dark reddish grey (5YR4/2-Moist); Mottles, 10-20%, 15-30mm, Distinct, 7.5YR3/2; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Very plastic; Non-sticky; Common cutans, 10-50% of ped faces or walls coated, faint; , very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to -
B31	0.52 - 0.79 m	Strong brown (7.5YR4/6-Moist); Medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Moderately plastic; Non-sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; Few, coarse (>5mm) roots; Abrupt, Wavy change to -
B32	0.79 - 1 m	Yellowish brown (10YR5/8-Moist); Light medium clay; Smooth-ped fabric; Dry; Very firm consistence; Moderately plastic; Non-sticky; Many cutans, >50% of ped faces or walls coated, distinct;

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					
66	0	to 75 mm	3.15	6.8	6.4	0.13	38.08	20.69	1.14	0.35	60.33	1.89	3.30	0.26	120
	180	to 255 mm	2.99	5.9	4.8	0.04	2.43	0.54	0.18	0.11	4.23	4.26	17.90	0.21	31
	280	to 520 mm	2.86	7.2	7.0	0.19	38.60	21.25	1.24	0.39	61.53	2.02	2.00	0.19	116
	520	to 790 mm	0.39	6.4	5.6	0.03	5.62	4.69	0.16	0.09	10.71	1.49	0.30	0.05	39
	800	to 1000 mm	3.80	7.8	7.7	0.20	30.64	12.59	0.95	0.76	45.01	2.11	43.20	0.37	309