Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N15 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd
Date Desc.: 19/10/05
Map Ref.: GPS S.A. Off
Northing/Long.:
Easting/Lat.:

Locality: Near Perth
Elevation: 150 metres
Rainfall: 620
Runoff: Slow
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: Certain
Substrate Material: Tertiary Sediments

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: Open depression (vale)
Elem. Type: Terrace plain
Slope: 4 %

Pattern Type: Terrace (alluvial)
Relief: No Data
Slope Category: Very gently sloped
Aspect: 38 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

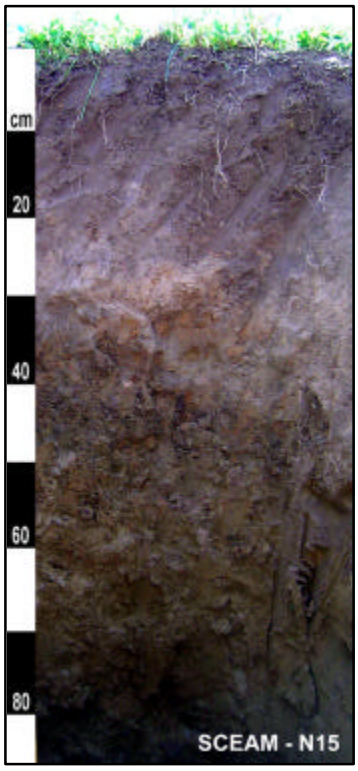
Australian Soil Classification:
Eutrophic Mottled-Mesonatric Grey Sodosol Medium Non-gravelly Loamy Clayey Deep

ASC Confidence:
All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated.

Vegetation: Pasture/ Crop

Surface Coarse Fragments: None



Profile Morphology

Ap	0 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); Fine sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Non-plastic; Non-sticky; Many, very fine (0-1mm) roots; Abrupt, Wavy change
A21	0.2 - 0.27 m	Dark greyish brown (10YR4/2-Moist); Loamy sand; Weak grade of structure, 5-10 mm, Angular blocky; Weak grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Non-plastic; Moderately sticky; Silcrete, Weakly cemented, Discontinuous, Massive; Common, very fine (0-1mm) roots; Clear, Wavy change to -
A22	0.27 - 0.33 m	Light brownish grey (2.5Y6/3-Dry); Greyish brown (2.5Y5/3-Moist); Loamy sand; Weak grade of structure, 5-10 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Non-plastic; Moderately sticky; Silcrete, Weakly cemented, Discontinuous, Massive; Common, very fine (0-1mm) roots; Sharp, Wavy change to -
B2t	0.33 - 0.59 m	Dark grey (10YR4/1-Moist); Mottles, 10-20%, 5-15mm, Distinct, 7.5YR4/6; Medium heavy clay; Weak grade of structure, 20-50 mm, Polyhedral; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; Very plastic; Superplastic; Slightly sticky; Many cutans, >50% of ped faces or walls coated, distinct; Common (10 - 20 %), Manganiferous, Soft segregations, Coarse (6 - 20 mm) segregations; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22t	0.59 - 0.9 m	Olive brown (2.5Y4/4-Moist); Heavy clay; Massive grade of structure; Moist; Firm consistence; Slightly plastic; Superplastic; Slightly sticky; Common cutans, 10-50% of ped faces or walls coated, distinct;

Chemistry Data

			Organic C%	pH (H20)	pH (CaCl2)	EC (dS/m)	Exchangeable Bases (meq/100g) Ca	Mg	Na	K	ECEC (meq/100g)	ESP %	Olsen P (mg/kg)	Total N %	Colwell_K (mg/kg)
0	to	75 mm	2.49	6.3	5.5	0.11	4.74	0.90	0.45	0.27	6.47	6.96	35.70	0.22	109
150	to	225 mm	1.28	5.8	4.6	0.06	1.61	0.32	0.28	0.20	2.69	10.41	27.60	0.11	76
200	to	330 mm	0.62	6.2	4.9	0.06	1.30	0.42	0.54	0.16	2.56	21.09	4.50	0.07	71
330	to	590 mm	0.69	7.5	6.7	0.14	6.70	14.89	4.26	0.43	26.31	16.19	0.70	0.12	148
600	to	900 mm	0.44	8.4	7.1	0.24	6.56	15.26	6.44	0.43	28.70	22.44	0.90	0.13	156