

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N65 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Fisheries

Site Information

Desc. By:	H. Hawkins	Locality:	Leverington
Date Desc.:	17/07/06	Elevation:	175 metres
Map Ref.:	GPS S.A. Off	Rainfall:	595
Northing/Long.:	5374493 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	518546 Datum: GDA94	Drainage:	Moderately well drained

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Firm

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Ferric Class Undetermined Tenosol Medium Non-gravelly	Principal Profile Form:	N/A
Sandy Clay-loamy Very deep		

ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance

Vegetation

Surface Coarse Fragments No surface coarse fragments

Profile Morphology

A1p	0 - 0.18 m	(/-Moist); , 0-0% ; Loamy sand; Weak grade of structure, 5-10 mm, Subangular blocky; Weak grade of structure, 10-20 mm, Subangular blocky; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Common, very fine (0-1mm) roots; Clear, Wavy change to -
B21	0.18 - 0.54 m	Yellowish red (5YR4/6-Moist); Biological mixing, 7.5YR2.52, 0-2% , 5-15mm, Distinct; Clayey sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B22	0.54 - 0.88 m	Strong brown (7.5YR5/6-Moist); Mottles, 7.5YR2.51, 0-2% , 0-5mm, Distinct; Clayey sand; Single grain grade of structure; ; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Sharp, Smooth change to -
B23t	0.88 - 1.03 m	Brown (7.5YR5/4-Moist); Substrate influence, 5YR58, 20-50% , 15-30mm, Prominent; Substrate influence, 7.5YR46, 20-50% , 15-30mm, Prominent; Clay loam, sandy; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; Common (10 - 20 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules;

Morphological Notes

B21	Sample N65C 300-540mm
B22	Sample N65D 570-850mm
B23t	N65E sampled 900-1020mm

Observation Notes

Wind blown sands.

Site Notes

Mode of Geomorph Activity: Eroded or Aggraded. Agent: Sheet wash and Wind. Positioned under a pivot.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.075	5.8C 6.3A	0.052A	2.89A	0.62	0.63	0.09	0.03D 0G 0.06A		4.29B	
0.2 - 0.275	5C 5.9A	0.03A	1.2A	0.37	0.41	1.06	0.06D 0.14G 0.3A		3.34B	
0.57 - 0.85	6.2C 6.5A	0.018A	1.1A	0.21	0.21	0.11	0.01D 0G 0.06A		1.69B	
0.9 - 1.02	6.6C 7.1A	0.08A	2.91A	6.46	0.24	0.76	0.01D 0G 0.05A		10.42B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt %
0 - 0.075		0.82B	81H 35.6I		0.1D			
0.2 - 0.275		0.23B	65H 31.2I		0.04D			
0.57 - 0.85		0.12B	4H 2.4I		0.02D			
0.9 - 1.02		0.12B	2H 0.9I		0.02D			

Laboratory Analyses Completed for this profile

10B_NR	Extractable sulfur (mg/kg) - Not recorded
12_NR_FE	Total element - Fe(%) - Not recorded
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
12A1_MN	DTPA - extractable copper, zinc, manganese and iron
12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
12C1	Calcium chloride extractable boron - manual colour
15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_K for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15G_C_AL2 By AAS	salts Exchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detremination
15G1	Exchange acidity (hydrogen and aluminium) by 1M potassium chloride
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

15N1	Exchangeable sodium percentage (ESP)
18A1	Bicarbonate-extractable potassium
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension

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4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A5	Total nitrogen - high frequency induction furnace, thermal conductivity
7C1a	Ammonium-N, in presence or absence of nitrite
7C1b	(Nitrate+nitrite)-N, in presence of nitrite
9B2_COL	Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no
longer	
	recommended
9C2	Olsen-extractable phosphorus - automated colour