Project Name: TAM
Project Code: TAM **Site ID:** H253 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	1.2KM east of Greens Beach
Date Desc.:	27/04/63	**Elevation:**	6 metres
Map Ref.:		**Rainfall:**	790
Northing/Long.:	146.759722222222	**Runoff:**	Very slow
Easting/Lat.:	-41.0875	**Drainage:**	Rapidly drained

Geology

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

Land Form

Rel/Slope Class:	Rolling plains <9m 10-32%	**Pattern Type:**	Beach ridge plain
Morph. Type:	Ridge	**Relief:**	3 metres
Elem. Type:	Beach ridge	**Slope Category:**	Gently inclined
Slope:	10.5 %	**Aspect:**	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Fragic Sesquic Aeric Podosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Uc4.24
Great Soil Group: Calcareous sand

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Mid Strata - Tussock grass, , . *Species includes - Lomandra longifolia
Tall Strata - Tree, , . *Species includes - Eucalyptus viminalis, Banksia marginata, Bursaria spinosa

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Very dark grey (10YR3/1-Moist); Dark greyish brown (10YR4/2-Dry); ; Sand; Single grain grade of structure; Dry; Very weak consistence; Abundant, fine (1-2mm) roots; Gradual change to -
A2sb	0.05 - 0.15 m	Dark greyish brown (10YR4/2-Moist); Pale brown (10YR6/3-Dry); ; Sand; Single grain grade of structure; Dry; Very weak consistence; Abundant, fine (1-2mm) roots; Diffuse change to -
A2	0.15 - 0.23 m	Dark greyish brown (10YR4/2-Moist); Pale brown (10YR6/3-Dry); ; Sand; Single grain grade of structure; Moderately moist; Very weak consistence; Common, fine (1-2mm) roots; Diffuse change to -
	0.23 - 0.33 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Sand; Single grain grade of structure; Loose consistence; Few, coarse (>5mm) roots; Diffuse change to -
	0.33 - 0.48 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Sand; Single grain grade of structure; Loose consistence; Few, fine (1-2mm) roots; Diffuse change to -
	0.48 - 0.58 m	Light yellowish brown (10YR6/4-Moist); ; Sand; Single grain grade of structure; Loose consistence; FewAbrupt, Irregular change to -
B2h	0.6 - 0.65 m	Brown (10YR4/3-Moist); Brown (10YR5/3-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; FewGradual, Irregular change to -
C	0.76 - 1.02 m	Brown (10YR5/3-Moist); Very pale brown (10YR7/3-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; Diffuse change to -
C	1.02 - 1.29 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Diffuse change to -
C	1.29 - 1.73 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Tubules;
	3.76 - 4.04 m	Light brownish grey (2.5Y6/3-Moist); ; Sand; Single grain grade of structure; Loose consistence;

Morphological Notes

Observation Notes

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AT 183CM <2% ROUNDED <25MM DOLERITE PEBBLE ENCOUNTERED:

Site Notes

BEACONSFIELD

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	7A	0.098A	3.6H	1.1	0.44	0.22	2.4E		7.76B	
0.05 - 0.15	6.7A	0.033A	1.2H	0.18	0.1	0.07	1.3E		2.85B	
0.15 - 0.23	6A	0.018A								
0.23 - 0.33	6.6A	0.015A	0.61H	<0.05	0.01	0.03	0.6E		1.3B	
0.33 - 0.48	8.5A	0.06A								
0.48 - 0.58	8.7A	0.063A								
0.6 - 0.65	8.8A	0.065A								
0.76 - 1.02	9.2A	0.054A								
1.02 - 1.29	9.3A	0.051A								
1.29 - 1.73	9.4A	0.048A								
3.76 - 4.04	9.3A	0.051A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		1.47D		0.009D	0.105A			0	12B	82	<1	2
0.05 - 0.15		0.5D		0.005D	0.028A			0	14D	84	<1	<1
0.15 - 0.23												
0.23 - 0.33								0	22D	77	<1	<1
0.33 - 0.48												
0.48 - 0.58		0.21D			0.013A							
0.6 - 0.65		0.32D			0.017A							
0.76 - 1.02												
1.02 - 1.29												
1.29 - 1.73	6.5A							0	11B	81	<1	1
3.76 - 4.04												

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m					g/g - m3/m3				mm/h	mm/h
0 - 0.05										
0.05 - 0.15										
0.15 - 0.23										
0.23 - 0.33										
0.33 - 0.48										
0.48 - 0.58										
0.6 - 0.65										
0.76 - 1.02										
1.02 - 1.29										
1.29 - 1.73										
3.76 - 4.04										

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
19A1	Carbonates - rapid titration
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette