Project Name: TAM
Project Code: TAM **Site ID:** H258 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	2.0KM east of Holwell:32M south of boundary corner of fence B on 242degrees and 134degrees respectively:
Date Desc.:	20/05/63	**Elevation:**	408 metres
Map Ref.:		**Rainfall:**	1010
Northing/Long.:	146.8	**Runoff:**	Moderately rapid
Easting/Lat.:	-41.2805555555556	**Drainage:**	Moderately well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Soil pit, 0.64 m deep,Mudstone

Land Form

Rel/Slope Class:	Rolling hills 90-300m 10-32%	**Pattern Type:**	Hills
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Moderately inclined
Slope:	10.5 %	**Aspect:**	315 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		**Mapping Unit:**	N/A
Acidic Mesotrophic Grey Kandosol		**Principal Profile Form:**	Dy2.51
ASC Confidence:		**Great Soil Group:**	Grey-brown podzolic soil
All necessary analytical data are available.			

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Weak grade of structure, <2 mm, Granular; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, Substrate material, coarse fragments; AbundantDiffuse change to -
	0.1 - 0.16 m	Dark greyish brown (10YR4/2-Moist); ; Light clay; Weak grade of structure, <2 mm, Subangular blocky; Weak consistence; 2-10%, cobbly, 60-200mm, Substrate material, coarse fragments; CommonDiffuse change to -
	0.16 - 0.25 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Weak grade of structure, <2 mm, Subangular blocky; Weak consistence; CommonDiffuse change to -
	0.25 - 0.33 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Subangular blocky; Weak consistence; CommonDiffuse change to -
	0.33 - 0.41 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Subangular blocky; Weak consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; CommonDiffuse change to -
	0.41 - 0.53 m	Brown (10YR4/3-Moist); ; Medium clay; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Mudstone, coarse fragments; FewAbrupt change to -
C	0.61 - 0.64 m	Brown (10YR4/3-Moist); , 10YR56; Clay loam (Light); Massive grade of structure; Moderately moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Mudstone, coarse fragments;

Morphological Notes

Observation Notes

0-64CM SOFT W`D MU FRAGMENTS INCREASING TO <60% AT 64CM:10-16CM (<2MM) AND33-41CM(<40MM) B1 SILICIFIED MUDSTONE FRAGMEN

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 - 0.1	5.4A	0.068A	4.9H	1.2	1.15	0.21	14.8E		22.3B	
0.1 - 0.16	4.9A	0.048A	3.2H	1.3	0.61	0.2	17.7E		23B	
0.16 - 0.25	4.9A	0.042A	2.6H	1.4	0.6	0.16	21.9E		26.7B	
0.25 - 0.33	4.8A	0.045A	2.3H	1.3	0.68	0.16	30.1E		34.5B	
0.33 - 0.41	4.8A	0.042A								
0.41 - 0.53	4.8A	0.051A	1H	0.39	0.39	0.19	38E		40B	
0.61 - 0.64	4.9A	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 - 0.1		2.8D		0.026D	0.222A			<1	9B	36	21	27
0.1 - 0.16		2.07D		0.015D	0.168A			11	8B	31	23	35
0.16 - 0.25		1.35D			0.139A			0	8B	25	19	46
0.25 - 0.33		1.97D		0.014D				0	6B	21	16	55
0.33 - 0.41		2.85D										
0.41 - 0.53		4.26D						6	10B	20	13	49
0.61 - 0.64		1.95D		0.016D								

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 - 0.1										
0.1 - 0.16										
0.16 - 0.25										
0.25 - 0.33										
0.33 - 0.41										
0.41 - 0.53										
0.61 - 0.64										

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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)
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 (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette