TAM **Project Name:**

Project Code: Observation ID: 1 TAM Site ID: H257

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock Locality: 4.8KM SE of Beaconsfield on west side of West

Tamar Highway 14.6M upslope from HEC pole 304:

Date Desc.: 23/05/63 Elevation: 50 metres Map Ref.: Rainfall: 940

Northing/Long.: 146.85555555556 Runoff: Moderately rapid Easting/Lat.: Poorly drained -41.234722222222 Drainage:

Geology

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

Land Form

Rel/Slope Class: Rolling low hills 30-90m 10-Pattern Type: Low hills Relief: No Data Morph. Type: Lower-slope

Slope Category: Moderately inclined Elem. Type: Hillslope Aspect: 22 degrees Slope: 13 %

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Bleached-Mottled Dystrophic Brown Kurosol **Principal Profile Form:** Dy3.21

ASC Confidence: Great Soil Group: Yellow podzolic soil

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage **Vegetation:** Low Strata - , , Closed or dense. *Species includes - None recorded

Mid Strata - Tree, , . *Species includes - None recorded Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m Dark grey (10YR4/1-Moist); ; Fine sandy loam; Weak grade of structure, <2 mm, Granular; Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments;

Common, fine (1-2mm) roots; Clear, Smooth change to -

A2 0.05 - 0.09 m Grey (2.5Y5/1-Moist); ; Fine sandy loam; Massive grade of structure; Moist; Very weak

consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; FewClear,

Wavy change to -

A2 0.05 - 0.09 m Grey (2.5Y5/1-Moist); ; Fine sandy loam; Massive grade of structure; Moist; Very weak

consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; FewClear,

Wavy change to -

Grey (2.5Y5/1-Moist); ; Fine sandy loam; Massive grade of structure; Moist; Very weak A2A3 0.09 - 0.14 m

consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Few

Light yellowish brown (2.5Y6/4-Moist); , 10YR53; Fine sandy clay loam; Massive grade of А3 0.14 - 0.28 m

structure; Moderately moist; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse

fragments; , Moderately cemented, Massive; Abrupt, Wavy change to -

B21 0.29 - 0.41 m Yellowish brown (10YR5/6-Moist); , 10YR32; Heavy clay; Weak grade of structure, 20-50 mm,

Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Few, coarse

(>5mm) roots: Gradual change to -

B22 0.41 - 0.56 m Yellowish brown (10YR5/4-Moist); , 7.5YR56, 2-10% , Faint; , 7.5YR44, 2-10% , Faint; Heavy

clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual

change to -

Olive grey (5Y5/2-Moist); , 7.5YR44; , 10YR54; Heavy clay; Moderate grade of structure, 5-10 **B23** 0.56 - 0.76 m

mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; 2-10%, medium gravelly, 6-

20mm, rounded, Quartz, coarse fragments; FewDiffuse change to -

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Olive grey (5Y5/2-Moist); , 7.5YR56; , 5YR58; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, B24 0.76 - 0.94 m

rounded, Quartz, coarse fragments; FewDiffuse change to -

B25 Olive grey (5Y5/2-Moist); , 7.5YR56; , 2.5YR48; Heavy clay; Weak grade of structure, 5-10 mm, 0.94 - 1.07 m

Angular blocky; Moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz,

coarse fragments; Clear change to -

Strong brown (7.5YR5/6-Moist); , N70; , 2.5Y84; Fine sandy medium clay; Massive grade of structure; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse ВС 1.07 - 1.22 m

fragments;

ВС 1.37 - 1.47 m (N7/0-Moist); , 7.5YR56; , 2.5YR48; Fine sandy medium clay; Moderately moist; Strong

consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments;

Morphological Notes

Observation Notes

ALSO:14-28CM <2% CHARCOAL ALSO:0-28CM ROUNDED <40MMQZ PEBBLES ALSO:>107CM LARGE 0-9CM <10% CC

GV IN W`D MU: LAYERS RE NUMBERED 14/10/92

Site Notes

BEACONSFIELD

Project Name: Project Code: Agency Name: TAM

TAM Site ID: H257 Observation ID: 1

CSIRO Division of Soils (TAS)

Depth	рН	1:5 EC		hangeable		Na	Exchangeable	CEC	E	ECEC	E	SP
m		dS/m	Ca	Mg	К	Na Cmol (Acidity (+)/kg				9	6
0 - 0.05	5A	0.045A	3.4H	1.6	0.35	0.18	15.2E			20.7B		
0.05 - 0.09	4.8A 4.9A	0.036A 0.03A	1.04H	0.68	0.12	0.09	8.7E		1	10.6E		
0.05 - 0.09	4.8A 4.9A	0.036A 0.03A	1.04H	0.68	0.12	0.09	8.7E		1	10.6E		
0.09 - 0.14	4.8A	0.033A										
0.14 - 0.28	5A	0.024A		0.14	0.04	0.07	5.5E			5.9E		
0.29 - 0.41	5A	0.033A		1.5	0.21	0.2	19.2E			21.5E		
0.41 - 0.56	5.2A	0.036A	0.36H	2.1	0.2	0.29	23.4E		2	26.4E		
0.56 - 0.76	5.3A	0.03A										
0.76 - 0.94	5.2A	0.027A										
0.94 - 1.07	4.9A	0.048A										
1.07 - 1.22	5.1A	0.03A	0.08H	1.2	0.07	0.19	14E		1	15.5E		
1.37 - 1.47	5.1A	0.033A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tot K		Pa GV	rticle \$	Size Aı FS	nalysis Silt (lav
m	%	%	mg/kg	%	%	%		٠,	00	%	One v	Jiuy
0 - 0.05		4.38D		0.008	0.18	31A		14	9B	46	29	10
0.05 - 0.09		1.81D 1.84D		0.005[0.07 0.07	-		21	14B	46	29	9
0.05 - 0.09		1.81D		0.005	0.07	75A		21	14B	46	29	9
0.09 - 0.14		1.84D 0.92D			0.07 0.03							
0.14 - 0.28		0.36D			0.00			23	15D	46	24	14
0.29 - 0.41		0.59D			0.04			2	6D	24	16	51
0.41 - 0.56		0.002			0.0	, .		6	3D	15	10	71
0.56 - 0.76								Ŭ	OD	.0	10	
0.76 - 0.94												
0.94 - 1.07												
1.07 - 1.22								37	13D	36	16	33
1.37 - 1.47												
Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat												
-		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15 I	Bar				
m				g/	g - m3/m	3			mm/ł	h	mm/h	

0 - 0.05 0.05 - 0.09 0.05 - 0.09 0.09 - 0.14 0.14 - 0.28 0.29 - 0.41 0.41 - 0.56 0.56 - 0.76

0.76 - 0.94 0.94 - 1.07 1.07 - 1.22 1.37 - 1.47

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Laboratory Analyses Completed for this profile

12_HCL_FE Total element - Fe(%) - Total acid(HCl) extractable Fe

15_NR Sum of Ex. cations + Ex. acidity - Not recorded

15E1_CA

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 5E1_K

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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
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

P10_PB_Z Silt (%) - Piummet balance
P10A1_C Clay (%) - Pipette
P10A1_CS Coarse sand (%) - Pipette
P10A1_ES Fine cond (%) Pipette

P10A1_FS Fine sand (%) - Pipette Silt (%) - Pipette

XRD_C_Ch
XRD_C_Hm
XRD_C_II
XRD_C_Ka
XRD_C_Qz
XRD_C_Vm
XRD_C_Vm
XRD_C_Vm
XRD_C_Vm
XRD_C_Vm
Chlorite - X-Ray Diffraction
Hematite - X-Ray Diffraction
Illite - X-Ray Diffraction
Kaolin - X-Ray Diffraction
Vermiculte - X-Ray Diffraction