

**Project Name:** TAM  
**Project Code:** TAM **Site ID:** H266 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

#### Site Information

<b>Desc. By:</b>	G.M. Dimmock	<b>Locality:</b>	6.5KM WSW of Kelso:14M N of Badger Head Rd 4.8KM from t'off on Main Rd to Kelso:
<b>Date Desc.:</b>	10/04/64	<b>Elevation:</b>	49 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	760
<b>Northing/Long.:</b>	146.7375	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-41.15	<b>Drainage:</b>	Poorly drained

#### Geology

<b>Exposure Type:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Auger boring, Unconsolidated material (unidentified)

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	5.5 %	<b>Aspect:</b>	0 degrees

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Mesotrophic Mottled-Subnatric Brown Sodosol	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	Dy3.41
		<b>Great Soil Group:</b>	Yellow podzolic soil

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:**

Low Strata - Fern, , . \*Species includes - None recorded

Mid Strata - Tree, , Closed or dense. \*Species includes - Casuarina suberosa, Exocarpus cupressiformis

Tall Strata - Tree, , . \*Species includes - None Recorded

**Surface Coarse Fragments:** 2-10%, , subangular, Quartz

#### Profile Morphology

A11	0 - 0.025 m	Black (10YR2/1-Moist); ; Loamy sand; Massive grade of structure; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Abundant, coarse (>5mm) roots; Gradual change to -
A12	0.025 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Massive grade of structure; Moderately moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; Abundant, coarse (>5mm) roots; Gradual, Irregular change to -
A1A2	0.1 - 0.2 m	Grey (10YR5/1-Moist); ; 10YR41; Sand; Single grain grade of structure; Moderately moist; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; CommonDiffuse change to -
A21	0.2 - 0.28 m	Grey (10YR5/1-Moist); ; Sand; Single grain grade of structure; Moderately moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; FewGradual change to -
A22	0.28 - 0.39 m	Light grey (10YR7/1-Moist); ; Sand; Massive grade of structure; Moist; 10-20%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; Other pans, Weakly cemented, Massive; Abrupt, Wavy change to -
B21	0.39 - 0.51 m	Yellowish brown (10YR5/8-Moist); ; 2.5Y53; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 50-100 mm, Angular blocky; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 0-2%, Gravel, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
B22	0.51 - 0.66 m	Yellowish brown (10YR5/8-Moist); ; 2.5Y53; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few, fine (1-2mm) roots;
B23	0.66 - 0.86 m	Yellowish brown (10YR5/8-Moist); ; 2.5Y53; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; Few

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B24	0.86 - 1.17 m	Yellowish brown (10YR5/8-Moist); , 2.5Y53; Heavy clay; Massive grade of structure; Moderately moist; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments;
	1.42 - 1.52 m	Yellowish brown (10YR5/8-Moist); , 10YR51; , 2.5YR48; Heavy clay; Very firm consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments;
	1.8 - 1.85 m	Grey (10YR5/1-Moist); , 2.5YR48; , 10YR58; Heavy clay; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions;

**Morphological Notes**

**Observation Notes**

>196CM ON FERRUGINOUS CEMENTED QZ -CONGLOMERATE:51-66CM SMOOTH PED/SLICKENSIDES:39-117CM  
PROMINENT VDB COATINGS ON AGG`S

**Site Notes**

BEACONSFIELD

**Observation ID: 1**

[illegible]

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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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 (%)
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
XRD_C_Gt	Geothite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction