

Project Name: PAT
Project Code: PAT **Site ID:** H248 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	.8KM NNE of Legana:
Date Desc.:	23/04/63	Elevation:	38 metres
Map Ref.:		Rainfall:	780
Northing/Long.:	147.381944444444	Runoff:	Moderately rapid
Easting/Lat.:	-41.363888888889	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 2.3 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Terrace (alluvial)
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	3.5 %	Aspect:	45 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Mesotrophic Brown Chromosol	Principal Profile Form:	Dy5.61
ASC Confidence:	Great Soil Group:	Lateritic podzolic soil

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Fern, , . *Species includes - None recorded
 Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.025 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Many, coarse (>5mm) roots; Clear, Irregular change to -
A1A2	0.025 - 0.09 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Many, coarse (>5mm) roots; Diffuse change to -
A21	0.09 - 0.18 m	Brown (10YR5/3-Moist); ; Loamy sand; Massive grade of structure; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Many, coarse (>5mm) roots; Diffuse change to -
A22	0.23 - 0.36 m	Brown (10YR5/3-Moist); ; Loamy sand (Heavy); Massive grade of structure; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Abundant, coarse (>5mm) roots; Abrupt, Wavy change to -
B21	0.42 - 0.56 m	Yellowish brown (10YR5/6-Moist); , 2.5YR48; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Ferruginous, Extremely coarse (> 60 mm), Nodules;
B22	0.56 - 0.71 m	Yellowish brown (10YR5/4-Moist); , 2.5YR48; , 2.5Y71; Heavy clay; Massive grade of structure; Moderately moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Very coarse (20 - 60 mm), Nodules;
B2	0.71 - 0.86 m	Yellowish brown (10YR5/4-Moist); , 2.5Y54; , 7.5YR56; Heavy clay; Massive grade of structure; Moderately moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Very coarse (20 - 60 mm), Nodules;
B24	0.86 - 1.07 m	Yellowish brown (10YR5/4-Moist); , 2.5Y62; , 2.5YR48; Heavy clay; Massive grade of structure; Moderately moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Few

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C 1.52 - 1.68 m Light grey (2.5Y7/1-Moist); , 10YR54; , 2.5YR36; Heavy clay; Moderately moist; Weak consistence; Very few (0 - 2 %), Ferruginous, , Nodules; Few
2.13 - 2.26 m Light grey (2.5Y7/1-Moist); , 2.5YR36; , 10YR54; Heavy clay; Weak consistence;

Morphological Notes

Observation Notes

ODD LARGE LUMPS OF CONCRETIONARY LATERITE <150MM IN CLAY HORIZON:WORMS ACTIVE:>226CM ON LATERITE BOULDERS:

Site Notes

LAUNCESTON

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[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 (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 (%)
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