

Project Name: PAT
Project Code: PAT **Site ID:** H217 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	1.6KM south of Springfield on property "Bispham":26M from fence:
Date Desc.:	18/07/61	Elevation:	177 metres
Map Ref.:		Rainfall:	1300
Northing/Long.:	147.484722222222	Runoff:	Slow
Easting/Lat.:	-41.2277777777778	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial fan
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Level
Slope:	1 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Eutrophic Kurosolic Redoxic Hydrosol	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Dy3.51
		Great Soil Group:	Gleyed podzolic soil

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

Vegetation:

Tall Strata - Tree, 20.01-35m, Isolated plants. *Species includes - Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loam (Heavy); Moderate grade of structure, <2 mm, Granular; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
A1	0.1 - 0.18 m	Very dark grey (10YR3/1-Moist); ; Loam (Heavy); Weak grade of structure, <2 mm, Granular; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Sharp change to -
	0.2 - 0.3 m	Greyish brown (10YR5/2-Moist); , 10YR43, 2-10% ; , 2-10% ; Sandy medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
	0.3 - 0.46 m	Greyish brown (10YR5/2-Moist); , 10YR54; Heavy clay; Weak grade of structure, 5-10 mm, Subangular blocky; Weak consistence; Moderately plastic; Normal plasticity; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
	0.46 - 0.61 m	Light brownish grey (10YR6/2-Moist); , 10YR54; Heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Slightly plastic; Normal plasticity; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
	0.61 - 0.76 m	Light brownish grey (10YR6/2-Moist); , 10YR54; Sandy medium clay; Massive grade of structure; Slightly plastic; Normal plasticity; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; Diffuse change to -
	0.76 - 0.94 m	Strong brown (7.5YR5/6-Moist); , 10YR62; Heavy clay; 50-100 mm, Polyhedral; Moderately plastic; Normal plasticity; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Manganiferous, , Concretions; Diffuse change to -
	1.07 - 1.27 m	Strong brown (7.5YR5/8-Moist); , 10YR61; Heavy clay; 50-100 mm, Polyhedral; Moderately plastic; Normal plasticity; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Manganiferous, , Concretions; Diffuse change to -
	1.75 - 1.85 m	Light grey (10YR7/1-Moist); , 7.5YR58; Sandy medium clay; Moderately plastic; Normal plasticity; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Clear change to -

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3.91 - 3.96 m Grey (5Y5/1-Moist); , 10YR58; Clayey sand; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;

Morphological Notes

Observation Notes

391-396CM MANY BLACK SAND GRAINS (PROBABLY MICA):46-61CM OCCASIONAL MICA FLAKES:

Site Notes

PIPERS RIVER

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[illegible]

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
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