

Project Name: EAR
Project Code: EAR **Site ID:** T351 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.J. Coventry	Locality:	CSIRO Experimental Area
Date Desc.:	07/08/79	Elevation:	No Data
Map Ref.:	Sheet No. : 8057 1:100000	Rainfall:	650
Northing/Long.:	145.863888888889	Runoff:	No Data
Easting/Lat.:	-20.230555555556	Drainage:	No Data

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Mesotrophic Red Kandosol	Principal Profile Form:	Gn2.11
ASC Confidence:	Great Soil Group:	Red earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/4-Moist); Brown (7.5YR5/4-Dry); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Abundant, fine (1-2mm) roots; Gradual change to -
A3	0.1 - 0.2 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots; Diffuse change to -
B1	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Few, fine (1-2mm) roots;
B1	0.3 - 0.4 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Few, fine (1-2mm) roots; Diffuse change to -
B21	0.4 - 0.6 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; 2.5YR46, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, , Nodules; Common, fine (1-2mm) roots; Clear change to -
B22	0.6 - 0.87 m	Strong brown (7.5YR5/6-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Very many (50 - 100 %), Ferruginous, , Nodules; Common, fine (1-2mm) roots; Abrupt change to -
C1	0.87 - 1.2 m	Dark red (10R3/8-Moist); , 5YR72, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Common (10 - 20 %), Argillaceous, , Nodules;
C1	1.2 - 1.5 m	Dark red (10R3/8-Moist); , 5YR82, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Few (2 - 10 %), Argillaceous, , Nodules; Diffuse change to -

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C2	1.5 - 1.7 m	Dark red (10R3/8-Moist); , 5YR82, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence;
C2	1.7 - 1.8 m	Dark red (10R3/8-Moist); , 5YR82, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence;
C2	1.8 - 2.15 m	Dark red (10R3/8-Moist); , 5Y71, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Clear, Irregular change to -
R1	2.15 - 2.4 m	Rock
R2	2.4 - 2.57 m	Rock

Morphological Notes

R2 Weathered Igneous rock.

Observation Notes

Site Notes

REDLANDS

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[illegible]

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Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
4A1	pH of 1:5 soil/water suspension
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)