

**Project Name:** EAR  
**Project Code:** EAR **Site ID:** T352 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	R.J. Coventry	<b>Locality:</b>	CSIRO Experimental Area.
<b>Date Desc.:</b>	20/08/79	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8057 1:100000	<b>Rainfall:</b>	650
<b>Northing/Long.:</b>	145.863888888889	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-20.230555555556	<b>Drainage:</b>	No Data

**Geology**

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

**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>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** N/A

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Mesotrophic Red Chromosol	<b>Principal Profile Form:</b>	Gn2.14
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Red earth

No analytical data are available but confidence is fair.

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

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A11	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); Reddish brown (5YR5/3-Dry); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); Reddish brown (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; Few, fine (1-2mm) roots;
A12	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
A3	0.3 - 0.4 m	Red (2.5YR4/6-Moist); Red (2.5YR5/6-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; Diffuse change to -
B1	0.4 - 0.5 m	Red (10R4/7-Moist); Red (2.5YR4/8-Dry); ; Clay loam, sandy (Heavy); Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
B2	0.5 - 0.6 m	Red (10R4/7-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules;
B2	0.6 - 0.9 m	Red (10R4/7-Moist); , 5Y73, 0-2% , 5-15mm, Distinct; , 0-2% , 5-15mm, Distinct; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules;
B2	0.9 - 1.05 m	Red (10R4/7-Moist); , 5Y73, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules;

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B2	1.05 - 1.18 m	Dark red (10R3/6-Moist); , 5Y74, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules;
B2	1.18 - 1.3 m	Dark red (10R3/6-Moist); , 5Y74, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules; Clear change to -
C1	1.3 - 1.5 m	Red (10R4/8-Moist); , 10YR71, 2-10% , 15-30mm, Prominent; , 10YR56, 2-10% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules;
C1	1.5 - 1.8 m	Red (10R4/8-Moist); , 10YR71, 2-10% , 15-30mm, Prominent; , 10YR56, 2-10% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules;
C1	1.8 - 2.1 m	Red (10R4/8-Moist); , 10YR71, 10-20% , 15-30mm, Prominent; , 10YR56, 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules;
C1	2.1 - 2.4 m	Red (10R4/8-Moist); , 10YR71, 10-20% , 15-30mm, Prominent; , 10YR56, 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
C2	2.4 - 2.7 m	Red (10R4/8-Moist); , 10YR71, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence;
C2	2.7 - 3 m	Red (10R4/8-Moist); , 10YR71, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence;
C2	3 - 3.3 m	Red (10R4/8-Moist); , 10YR71, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Diffuse change to -
R	3.3 - 3.5 m	Rock

#### **Morphological Notes**

#### **Observation Notes**

#### **Site Notes**

REDLANDS

**Observation ID: 1**

[illegible]

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0.6 - 0.9  
0.9 - 1.05  
1.05 - 1.18  
1.18 - 1.3  
1.3 - 1.5  
1.5 - 1.8  
1.8 - 2.1  
2.1 - 2.4  
2.4 - 2.7  
2.7 - 3  
3 - 3.3  
3.3 - 3.5

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**Laboratory Analyses Completed for this profile**

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 (%)