

**Project Name:** EAR  
**Project Code:** EAR **Site ID:** T342 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	R.J. Coventry	<b>Locality:</b>	
<b>Date Desc.:</b>	06/12/77	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7956 1:100000	<b>Rainfall:</b>	600
<b>Northing/Long.:</b>	145.115277777778	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-20.7486111111111	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	Auger boring	<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
Ferric Magnesic Yellow Kandosol	<b>Principal Profile Form:</b>	Gn2.21
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Yellow earth

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Hummock grass, 0.26-0.5m, Very sparse. \*Species includes - Triodia pungens  
Mid Strata - Tree, 1.01-3m, Very sparse. \*Species includes - Grevillea glauca  
Tall Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Grevillea glauca, Eucalyptus similis

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

**Profile Morphology**

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Brown (10YR5/3-Dry); ; Sandy loam; Massive grade of structure; Dry; Loose consistence; Few, fine (1-2mm) roots; Diffuse change to -
B1	0.1 - 0.2 m	Yellowish brown (10YR5/6-Moist); Brownish yellow (10YR6/6-Dry); ; Sandy clay loam (Light); Massive grade of structure; Dry; Very weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
B1	0.2 - 0.3 m	Yellowish brown (10YR5/6-Moist); Brownish yellow (10YR6/6-Dry); ; Sandy clay loam (Light); Massive grade of structure; Dry; Very weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
B1	0.3 - 0.6 m	Yellowish brown (10YR5/6-Moist); Brownish yellow (10YR6/6-Dry); ; Sandy clay loam (Light); Massive grade of structure; Dry; Very weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
B21	0.6 - 0.9 m	Brownish yellow (10YR6/6-Moist); Yellowish brown (10YR5/6-Dry); ; Sandy light clay; Massive grade of structure; Dry; Weak consistence;
B21	0.9 - 1.1 m	Brownish yellow (10YR6/6-Moist); Yellowish brown (10YR5/6-Dry); ; Sandy medium clay; Massive grade of structure; Dry; Weak consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
B22	1.1 - 1.2 m	Brownish yellow (10YR6/6-Moist); ; Sandy light clay; Massive grade of structure; Dry; Strong consistence; 0-2%, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, , Nodules;
B22	1.2 - 1.35 m	Brownish yellow (10YR6/6-Moist); , 10R34, 2-10% , 5-15mm, Distinct; , 10YR74, 2-10% , 5-15mm, Distinct; Sandy light clay; Massive grade of structure; Dry; Strong consistence; Many (20 - 50 %), Ferruginous, , Nodules; Clear change to -
B3	1.35 - 1.53 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Single grain grade of structure; Dry; Very strong consistence; Many (20 - 50 %), Ferruginous, , Nodules;
	1.53 - 1.63 m	;

**Morphological Notes**

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Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.6A	0.017A	0.23H	0.33	0.06	0.02	0.18F	1.27A	0.8F	1.57
0.1 - 0.2	6A	0.017A								
0.2 - 0.3	5.2A	0.015A	0.19H	0.45	0.06	0.02	0.17F	1.26A	0.9F	1.59
0.3 - 0.6	5.7A	0.012A								
0.6 - 0.9	5.7A	0.009A	<0.02H	0.084	0.05	0.02	0.2F	1.37A	0.4F	1.46
0.9 - 1.1	5.8A	0.01A								
1.1 - 1.2	5.7A	0.013A								
1.2 - 1.35	6A	0.012A	<0.02H	1.05	0.05	0.04	0.31F	1.91A	1.5F	2.09
1.35 - 1.53	5.4A	0.014A								
1.53 - 1.63	6A	0.009A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.29D	3B	0.005A	0.014A	0.07A		1	57A	32	3	8
0.1 - 0.2		0.22D	4B		0.012A			1	53A	33	3	10
0.2 - 0.3		0.26D	4B	0.002A	0.011A	0.03A		1	61A	28	2	9
0.3 - 0.6								1	54A	30	3	13
0.6 - 0.9				0.001A		0.03A		3	49A	34	3	15
0.9 - 1.1								43	51A	32	3	14
1.1 - 1.2								48	58A	25	4	13
1.2 - 1.35				0.009A		0.05A		49	58A	25	4	14
1.35 - 1.53								25	57A	27	5	11
1.53 - 1.63								44	47A	26	6	21

[illegible]

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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
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
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (BSES)
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 (%)