

**Project Name:** RR  
**Project Code:** RR      **Site ID:** B549      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	10/02/66	<b>Elevation:</b>	320 metres
<b>Map Ref.:</b>	Sheet No. : 9044    1:100000	<b>Rainfall:</b>	669
<b>Northing/Long.:</b>	150.775	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-26.672222222222	<b>Drainage:</b>	Well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qpc	<b>Substrate Material:</b>	Auger boring, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	9 metres
<b>Elem. Type:</b>	Levee	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Mesotrophic Red Kandosol		<b>Principal Profile Form:</b>	Gn2.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red earth
All necessary analytical data are available.			

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

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - Chloris species, Aristida species  
Tall Strata - Tree, , Closed or dense. \*Species includes - Eucalyptus species, Eucalyptus populnea, Eucalyptus

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

**Profile Morphology**

A11	0 - 0.15 m	Reddish brown (5YR4/3-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; Field pH 7.3 (pH meter); Gradual change to -
A12	0.15 - 0.3 m	Red (2.5YR4/5-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; Field pH 7.1 (pH meter); Diffuse change to -
B11	0.3 - 0.46 m	Red (2.5YR4/5-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; Field pH 7.1 (pH meter); Diffuse change to -
B12	0.46 - 0.61 m	Red (2.5YR4/5-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; Field pH 6.5 (pH meter); Diffuse change to -
B21	0.61 - 0.91 m	Red (2.5YR4/6-Moist); ; Clayey sand; Massive grade of structure; Moist; Very weak consistence; Field pH 5.6 (pH meter); Diffuse change to -
B21	0.91 - 1.22 m	Red (2.5YR4/6-Moist); ; Clayey sand; Massive grade of structure; Moist; Very weak consistence; Field pH 5.8 (pH meter); Diffuse change to -
B21	1.22 - 1.52 m	Red (2.5YR4/6-Moist); ; Clayey sand; Massive grade of structure; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 6.1 (pH meter); Diffuse change to -
B22	1.52 - 1.83 m	Red (2.5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 6.3 (pH meter); Diffuse change to -
B22	1.83 - 2.13 m	Red (2.5YR4/6-Moist); ; Sandy clay loam (Light); Massive grade of structure; Moist; Weak consistence; Field pH 5.8 (pH meter); Diffuse change to -
B23	2.13 - 2.44 m	Red (2.5YR5/6-Moist); ; 10R46, 20-50% , 5-15mm, Distinct; , 2.5Y64, 20-50% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; Field pH 6 (pH meter); Diffuse change to -

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B3	2.44 - 2.74 m	Red (2.5YR5/6-Moist); , 10R46, 20-50% , 5-15mm, Distinct; , 2.5Y64, 20-50% , 5-15mm, Distinct; Clayey sand; Massive grade of structure; Moist; Very weak consistence; Very few (0 - 2 %), , Coarse (6 - 20 mm), Nodules; Field pH 6.2 (pH meter); Diffuse change to -
B3	2.74 - 3.05 m	Red (2.5YR5/6-Moist); , 7.5YR56, 20-50% , 5-15mm, Faint; , 10R66, 20-50% , 5-15mm, Faint; Clayey sand; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), , Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter); Diffuse change to -
B3	3.05 - 3.35 m	Yellowish brown (10YR5/6-Moist); , 10YR66; Fine sand; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), , Coarse (6 - 20 mm), Nodules; Field pH 6.7 (pH meter);

**Morphological Notes**

**Observation Notes**

"NODULES" ARE SAND CEMENTED WITH FERRUGINOUS MATERIAL-VARYING FROM FIRM TO HARD:

**Site Notes**

SEVEN OAKS

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Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol	Exchangeable Acidity (+)/kg	CEC	ECEC	ESP %
0 - 0.15	7.3H	0.01B	3.4K	0.74	0.4	0	1D			
0.15 - 0.3	7.1H	0.01B								
0.3 - 0.46	7.1H	0.01B								
0.46 - 0.61	6.5H	0.01B								
0.61 - 0.91	5.6H	0.01B	1.3K	0.96	0	0	1.4D			
0.91 - 1.22	5.8H	0.01B								
1.22 - 1.52	6.1H	0.01B								
1.52 - 1.83	6.3H	0.01B	1.8K	0.79	0	0.7	1.8D			
1.83 - 2.13	5.8H	0.01B								
2.13 - 2.44	6H	0.01B								
2.44 - 2.74	6.2H	0.01B								
2.74 - 3.05	6.3H	0.01B								
3.05 - 3.35	6.7H	0.01B								

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**Laboratory Analyses Completed for this profile**

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded