

**Project Name:** WAG  
**Project Code:** WAG      **Site ID:** C42      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

#### Site Information

<b>Desc. By:</b>		<b>Locality:</b>	E. side of Rands Tank Rd. to Ganmain:2.1km nth. of old Narandeia Road:
<b>Date Desc.:</b>	14/12/56	<b>Elevation:</b>	183 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	450
<b>Northing/Long.:</b>		<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>		<b>Drainage:</b>	Moderately well drained

#### Geology

<b>ExposureType:</b>	No Data	<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>	Rises
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	3 metres
<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):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached-Mottled Mesotrophic Red Chromosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red-brown earth
No analytical data are available but confidence is fair.			

#### Site Disturbance:

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - None recorded  
 Tall Strata - Tree, , . \*Species includes - None Recorded

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.08 m	Strong brown (7.5YR4/6-Moist); ; Clay loam; Weak grade of structure, 50-100 mm, Platy; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence;
A1	0.08 - 0.15 m	Strong brown (7.5YR4/6-Moist); ; Clay loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence;
A2	0.15 - 0.23 m	Brown (7.5YR5/4-Moist); ; Clay loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments;
A2sb	0.23 - 0.3 m	Reddish yellow (7.5YR6/6-Moist); , 7.5YR46; Fine sandy clay loam; Massive grade of structure; Dry; Very firm consistence; 2-10%, Quartz, coarse fragments;
A2cb	0.3 - 0.36 m	Pinkish grey (7.5YR7/2-Moist); , 2.5YR46; Sandy clay loam; Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 10-20%, Quartz, coarse fragments; Irregular change to -
B1	0.38 - 0.46 m	Dark red (10R3/6-Moist); , 7.5YR56; Medium clay; 100-200 mm, Columnar; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; 0-2%, Quartz, coarse fragments;
	0.46 - 0.53 m	Red (2.5YR4/6-Moist); , 10R36, 2-10% ; , 5YR33, 2-10% ; Medium clay (Heavy); Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments;
B2	0.53 - 0.61 m	Dark red (10R3/6-Moist); , 5YR58; , 2.5YR56; Medium clay (Heavy); Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated;
	0.61 - 0.69 m	Dark red (2.5YR3/6-Moist); , 5YR58; Light medium clay (Heavy); Massive grade of structure; Weak grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Concretions;

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2A	0.71 - 0.79 m	Dark red (2.5YR3/6-Moist); , 5YR48; Sandy light clay; Weak grade of structure, 20-50 mm, Platy; 10-20 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;
	0.84 - 0.91 m	Dark red (2.5YR3/6-Moist); , 5YR46; Sandy medium clay; Weak grade of structure, 20-50 mm, Platy; 10-20 mm, Angular blocky; Coarse, (10 - 20) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
2B1	0.99 - 1.07 m	Dark red (2.5YR2/5-Moist); , 5YR58; , 7.5YR52; Light medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 2-5 mm, Angular blocky; Moderately moist; Weak consistence; 0-2%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
2B2k	1.24 - 1.32 m	Dark red (2.5YR2/5-Moist); , 7.5YR55; Light medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 2-5 mm, Angular blocky; Moderately moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, , Nodules;
	2.46 - 2.62 m	Yellowish brown (10YR5/6-Moist); , 7.5YR66; , 2.5YR46; Medium clay; Weak consistence; Few (2 - 10 %), Ferromanganiferous, , Nodules;
3A	3.3 - 3.45 m	Dark red (10R3/6-Moist); , 7.5YR54; , 2.5YR46; Sandy medium clay; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores,

#### **Morphological Notes**

#### **Observation Notes**

#### **Site Notes**

BOURKE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		
						Cmol (+)/kg			%

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			%		

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h

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**Laboratory Analyses Completed for this profile**