

**Project Name:** WAG  
**Project Code:** WAG      **Site ID:** C38      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

#### Site Information

<b>Desc. By:</b>		<b>Locality:</b>	Near boundary between partitions 93 & 94:
<b>Date Desc.:</b>	22/11/56	<b>Elevation:</b>	189 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	450
<b>Northing/Long.:</b>		<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>		<b>Drainage:</b>	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>	Granite

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	30 metres
<b>Elem. Type:</b>	Dune	<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
N/A		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	No suitable group
Confidence level not specified			

#### 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 - 0.05 m	Dark reddish brown (5YR3/4-Moist); ; Sand; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Very weak consistence;
A1	0.05 - 0.13 m	Reddish brown (5YR4/4-Moist); ; Sand; Single grain grade of structure; Moist; Very weak consistence;
	0.23 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Sand; Single grain grade of structure; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments;
BC	0.38 - 0.46 m	Yellowish red (5YR4/8-Moist); ; Sand; Single grain grade of structure; Wet; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Few (2 - 10 %), Ferruginous, , Nodules;
	0.46 - 0.51 m	Yellowish red (5YR5/6-Moist); ; Sand; Single grain grade of structure; Very weak consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Wavy change to -
2A	0.51 - 0.53 m	Reddish brown (5YR4/4-Moist); , 2.5YR46; Sandy clay loam; , Columnar; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Concretions;
2B	0.55 - 0.62 m	Yellowish red (5YR5/6-Moist); , 7.5YR54; , 10YR63; Sandy clay loam; Weak grade of structure, 50-100 mm, Platy; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; , Ferruginous, , Concretions;
	0.62 - 0.72 m	Brown (10YR5/3-Moist); , 10R36; , 7.5YR44; Light clay; Weak grade of structure, 50-100 mm, Platy; Weak grade of structure, 20-50 mm, Platy; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; Common cutans, 10-50% of ped faces or walls coated;
	0.72 - 0.8 m	Dark red (10R3/6-Moist); , 10YR53, 10-20% ; , 10-20% ; Light clay; Weak grade of structure, 50-100 mm, Platy; Moderate grade of structure, 20-50 mm, Platy; Weak consistence;
	0.8 - 0.88 m	Dark red (10R3/6-Moist); , 10YR53, 10-20% ; , 10-20% ; Sandy light clay; Weak grade of structure, 50-100 mm, Platy; Moderate grade of structure, 20-50 mm, Platy; Weak consistence;

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2C	0.91 - 0.99 m	Dark red (10R3/6-Moist); , 5YR44; , 10YR52; Loam; Weak grade of structure, 50-100 mm, Platy; Moderate grade of structure, 20-50 mm, Platy; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Firm consistence; 2-10%, Charcoal, coarse fragments;
	0.99 - 1.07 m	Reddish brown (5YR4/4-Moist); , 10R36; , 5Y42; Sandy loam; Weak grade of structure, 50-100 mm, Platy; Moderate grade of structure, 20-50 mm, Platy; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Firm consistence; 2-10%, Quartz, coarse fragments;
	1.07 - 1.14 m	Reddish brown (5YR4/4-Moist); , 10R36; , 5Y42; Sand; Single grain grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 10-20%, Quartz, coarse fragments;
2C	1.14 - 1.19 m	Light grey (5Y7/2-Moist); , 10R44; , 7.5YR54; Sand; Weak grade of structure, 20-50 mm, Platy; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; 20-50%, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions;
3B	1.22 - 1.29 m	Red (10R4/6-Moist); , 7.5YR44; , 10YR42; Sandy light clay; Weak grade of structure, 5-10 mm, Platy; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 2-10%, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Calcareous, , Concretions;
	1.45 - 1.6 m	Dark red (10R3/6-Moist); , 10YR54; , 5Y62; Light clay; Firm consistence; 2-10%, Gravel, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct;
	1.68 - 1.78 m	Dark red (10R3/6-Moist); , 10YR54; , 5Y62; Light clay; Few (<1 per 100mm2) Fine (1-2mm) macropores, Firm consistence; 10-20%, Gravel, coarse fragments; Common cutans, 10-50% of ped faces or walls coated;
	1.88 - 2.08 m	Yellowish brown (10YR5/6-Moist); , 5Y52; Sandy medium clay; Weak consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent;
3BC	2.46 - 2.67 m	Yellowish brown (10YR5/6-Moist); , 5YR46; , 5Y22; Medium clay; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent;
3C	3.33 - 3.53 m	Yellowish brown (10YR5/6-Moist); , 10YR68; , 5Y22; Medium clay; Moderately moist; Firm consistence;

#### **Morphological Notes**

#### **Observation Notes**

>246CM MICACEOUS AND FELDSPATHIC TO WEATHERED GRANITE AT 353CM:

#### **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	mm/h	mm/h
m					g/g - m3/m3					

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Laboratory Analyses Completed for this profile