

**Project Name:** WAG  
**Project Code:** WAG      **Site ID:** C37      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

### Site Information

<b>Desc. By:</b>		<b>Locality:</b>	Western side of road in erosion gully near Brueedale Village:
<b>Date Desc.:</b>	20/11/56	<b>Elevation:</b>	244 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	540
<b>Northing/Long.:</b>		<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>		<b>Drainage:</b>	Well drained

### Geology

<b>Exposure Type:</b>	Existing vertical exposure	<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>	No Data	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	91 metres
<b>Elem. Type:</b>	Pediment	<b>Slope Category:</b>	Very gently sloped
<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 Hypercalcic Brown Kandosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red earth
No analytical data are available but confidence is fair.			

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**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	Yellowish red (5YR4/6-Moist); , 5YR34; Silty clay loam; Massive grade of structure; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments;
	0.05 - 0.13 m	Dark reddish brown (5YR3/2-Moist); , 5YR33; Silty clay loam (Heavy); Weak grade of structure, 50-100 mm, Platy; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; , Ferruginous, , Nodules;
A3	0.13 - 0.2 m	Dark reddish brown (5YR3/2-Moist); , 5YR33; Silty clay loam; Massive grade of structure; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; , Ferruginous, , Nodules;
B1	0.2 - 0.3 m	Red (2.5YR4/6-Moist); , 5YR34; Light clay; Massive grade of structure; 5-10 mm, Subangular blocky; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; , Ferruginous, , Nodules;
	0.33 - 0.41 m	Red (2.5YR4/6-Moist); , ; Light clay; Massive grade of structure; 5-10 mm, Subangular blocky; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments;
	0.41 - 0.48 m	Red (2.5YR4/6-Moist); , ; Light medium clay; Massive grade of structure; 2-5 mm, Subangular blocky; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, , Concretions;
B2	0.56 - 0.64 m	Red (2.5YR4/6-Moist); , 10R36; Light medium clay; Massive grade of structure; Moderately moist; Weak consistence; 2-10%, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Few (2 - 10 %), Ferruginous, Medium (2 - 6 mm), Concretions;
	0.71 - 0.79 m	Strong brown (7.5YR5/6-Moist); , 10R36; Light medium clay; Massive grade of structure; Firm consistence; 2-10%, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, , Concretions;
	0.94 - 1.02 m	Strong brown (7.5YR5/6-Moist); , 10R44; , 10R21; Medium clay; Massive grade of structure; Weak consistence; 2-10%, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, , Nodules;

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|---------------|---|
| 1.17 - 1.24 m | Yellowish brown (10YR5/6-Moist); , 10R43; , 5Y72; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 2-5 mm, Angular blocky; Very firm consistence; 0-2%, Quartz, coarse fragments; , , Coarse (6 - 20 mm); , Gradual, Wavy change to -                     |
| 1.6 - 1.68 m  | Brown (10YR4/3-Moist); , 10R43; , 10R21; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Very plastic; Subplastic; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; |
| 2.06 - 2.13 m | Dark yellowish brown (10YR4/4-Moist); , 10R44; , 10R21; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Very plastic; Subplastic; , Calcareous, , Concretions;   |
| 2.9 - 3.05 m  | Dark yellowish brown (10YR4/4-Moist); , 10R44; , 10R21; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Very plastic; Subplastic; , Calcareous, Extremely coarse (> 60 mm), Veins;                               |
| 4.29 - 4.44 m | Dark yellowish brown (10YR4/4-Moist); , 10R44; , 10R21; Medium clay; 20-50 mm, Subangular blocky; Weak consistence; Moderately plastic; Subplastic; Common (10 - 20 %), Ferromanganiferous, , Nodules; , Calcareous, Extremely coarse (> 60 mm), Veins;   |
| 4.65 - 4.75 m | Dark yellowish brown (10YR4/4-Moist); , 10R44; , 10R21; Light medium clay; 20-50 mm, Subangular blocky; Weak consistence; Moderately plastic; Subplastic; , Ferruginous, , Nodules; , Calcareous, Extremely coarse (> 60 mm), Veins;  |
| 4.8 - 4.9 m   | Dark yellowish brown (10YR4/4-Moist); , 10R44; , 10R21; Light medium clay; 20-50 mm, Subangular blocky; Weak consistence; Moderately plastic; Subplastic; , Ferruginous, , Nodules; , Calcareous, Extremely coarse (> 60 mm), Veins;  |
| 5.33 - 5.51 m | Dark yellowish brown (10YR4/4-Moist); , 10R44; , 10R21; Light medium clay; 20-50 mm, Subangular blocky; Weak consistence; Moderately plastic; Subplastic; , Ferruginous, , Nodules; , Calcareous, Extremely coarse (> 60 mm), Veins;  |

#### **Morphological Notes**

#### **Observation Notes**

ATTAPULGITE APPEARS AT 265CM AS LARGE RED POCKETS: LIME COLUMNS CONTINUOUS AND OF LARGE DIAMETER AT >213CM:

#### **Site Notes**

CLARENDON

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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		
m					g/g -	m3/m3		mm/h	mm/h

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Laboratory Analyses Completed for this profile