

Project Name: WAG
Project Code: WAG **Site ID:** C43 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:		Locality:	Nth. of Rd. approx. middle of boundary:2.6km west of profile 3 & 14kmwest of Henty:
Date Desc.:	12/12/56	Elevation:	229 metres
Map Ref.:		Rainfall:	570
Northing/Long.:		Runoff:	Rapid
Easting/Lat.:		Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Pediment
Morph. Type:	No Data	Relief:	61 metres
Elem. Type:	Pediment	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached Mesotrophic Brown Kandosol		Principal Profile Form:	N/A
ASC Confidence:	No analytical data and little or no knowledge of this soil.	Great Soil Group:	No suitable group

Site Disturbance:

Vegetation:

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

	0 - 0.1 m	Strong brown (7.5YR5/5-Moist); ; Loam; Massive grade of structure; Very weak consistence; Abundant
A1	0.1 - 0.18 m	Dark brown (10YR3/3-Moist); , 7.5YR48; Loam (Heavy); Moderate grade of structure, 50-100 mm, Platy; 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Abundant
A11	0.18 - 0.28 m	Strong brown (7.5YR5/6-Moist); Pink (7.5YR7/4-Dry); ; Clay loam; Weak grade of structure, 50-100 mm, Platy; 5-10 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Abundant
A12	0.28 - 0.36 m	Strong brown (7.5YR5/6-Moist); Pink (7.5YR7/4-Dry); ; Clay loam; Weak grade of structure, 50-100 mm, Platy; 5-10 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 0-2%, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Abundant
A2	0.36 - 0.43 m	Yellowish brown (10YR5/5-Moist); Very pale brown (10YR7/4-Dry); ; Loam; Massive grade of structure; Weak grade of structure, Platy; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 2-10%, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules;
A23A3	0.46 - 0.51 m	Yellowish brown (10YR5/4-Moist); ; Clay loam; Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 2-10%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Few
DB11	0.53 - 0.57 m	Yellowish brown (10YR5/6-Moist); ; Light clay; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Few cutans, <10% of ped faces or walls coated; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
DB12	0.57 - 0.61 m	Yellowish brown (10YR5/6-Moist); , 2.5Y68; , 10R36; Medium clay; Massive grade of structure; Moderate grade of structure, Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

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0.71 - 0.81 m	Yellowish brown (10YR5/6-Moist); , 2.5Y64, 20-50% ; , 10R36, 20-50% ; Light clay (Heavy); Moderate grade of structure, 5-10 mm, Subangular blocky; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; Moderately plastic; Common cutans, 10-50% of ped faces or walls coated; Few
1.04 - 1.17 m	Yellowish brown (10YR5/6-Moist); , 2.5Y64, 20-50% ; , 10R36, 20-50% ; Light clay (Heavy); Moderate grade of structure, 5-10 mm, Subangular blocky; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; Moderately plastic; Common cutans, 10-50% of ped faces or walls coated; Many (20 - 50 %), Argillaceous, , Nodules;
1.63 - 1.75 m	Light yellowish brown (10YR6/4-Moist); , 2.5Y62; , 2.5YR54; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Very weak consistence; Common cutans, 10-50% of ped faces or walls coated;
1.88 - 2.01 m	Yellowish brown (10YR5/4-Moist); , 2.5YR46; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Very weak consistence; Common (10 - 20 %), Ferruginous, , Nodules;
2.13 - 2.23 m	Yellowish red (5YR5/6-Moist); , 2.5YR46, 2-10% ; , 10YR68, 2-10% ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; Few cutans, <10% of ped faces or walls coated; , Gypseous, Very coarse (20 - 60 mm), Veins;
2.31 - 2.44 m	Yellowish red (5YR5/6-Moist); , 2.5YR46, 2-10% ; , 10YR68, 2-10% ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Firm consistence; Few cutans, <10% of ped faces or walls coated; , Gypseous, , Veins;
2.69 - 2.82 m	Yellowish red (5YR4/6-Moist); , 2.5Y62; , 2.5Y64; Sandy medium clay; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Argillaceous, , Nodules;
2.97 - 3.12 m	Yellowish brown (10YR5/5-Moist); , 2.5Y54; Medium clay; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Argillaceous, , Nodules;
3.33 - 3.48 m	Yellowish brown (10YR5/4-Moist); , 2.5YR46; Medium clay; Very weak consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Argillaceous, , Nodules; , Gypseous, , Veins;
3 3.81 - 3.96 m	Reddish brown (5YR4/4-Moist); , 2.5Y54; , 2.5Y62; Sandy medium clay; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments;

Morphological Notes

Observation Notes

>396CM ON LIME COLUMN + STONES: 57-61CM MUCH Mn: >269CM MODERATE Fe/Mn FLECKS AND COATINGS + AL GRAVES IS ATTAPULGITE: FNODULES ARE Fe CLAY:

Site Notes

MITCHELL

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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 Cmol (+)/kg	Acidity		%

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