

Project Name: WAG
Project Code: WAG **Site ID:** C39 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:		Locality:	Erosion gully north of Henty-Pleasant Hills Road: East of bridge on Munda Waddery Road 11.3km west of Henty:
Date Desc.:	11/12/56	Elevation:	2 metres
Map Ref.:		Rainfall:	570
Northing/Long.:		Runoff:	Moderately rapid
Easting/Lat.:		Drainage:	Moderately well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Pediplain
Morph. Type:	No Data	Relief:	60 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Ferric Hypercalcic Brown Dermosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Solodic soil
No analytical data are available but confidence is fair.			

Site Disturbance:

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Light brown (7.5YR6/4-Moist); , 7.5YR58; , 10YR74; Silty clay loam; Weak grade of structure, 50-100 mm, Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 0-2%, Gravel, coarse fragments; Common
A2	0.1 - 0.18 m	Pink (7.5YR7/4-Moist); , 7.5YR58; , 10YR74; Silty clay loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 2-10%, Gravel, coarse fragments; CommonAbrupt change to -
AB	0.18 - 0.3 m	Pink (7.5YR7/4-Moist); , 7.5YR56; , 2.5Y62; Silty clay loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; Wavy change to -
B11	0.3 - 0.41 m	Strong brown (7.5YR5/6-Moist); , 2.5Y62; , 5YR56; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Few cutans, <10% of ped faces or walls coated; Few (2 - 10 %), Ferruginous, , Concretions; Gradual change to -
B12	0.48 - 0.58 m	Brownish yellow (10YR6/6-Moist); , 7.5YR56, 2-10% ; , 5YR56, 2-10% ; Medium heavy clay; Weak grade of structure, 100-200 mm, Prismatic; Moderate grade of structure, <2 mm, Platy; Moderately moist; Weak consistence; 0-2%, Gravel, coarse fragments; Few cutans, <10% of ped faces or walls coated; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Gradual change to -
B13	0.71 - 0.84 m	Yellowish brown (10YR5/6-Moist); , Medium heavy clay; Weak grade of structure, 100-200 mm, Prismatic; 20-50 mm, Angular blocky; Moderately moist; Weak consistence; Many cutans, >50% of ped faces or walls coated; Gradual change to -
B21	0.96 - 1.04 m	Yellowish brown (10YR5/6-Moist); , Medium heavy clay; Weak grade of structure, 100-200 mm, Prismatic; 20-50 mm, Angular blocky; Moderately moist; Weak consistence; Very few (0 - 2 %), Calcareous, , Tubules; Gradual change to -
B22	1.35 - 1.47 m	Yellowish brown (10YR5/6-Moist); , 7.5YR64; Medium clay; Strong grade of structure, Angular blocky; Dry; Weak consistence; Many cutans, >50% of ped faces or walls coated; Very many (50 - 100 %), Ferromanganiferous, , ; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Tubules; Gradual change to -

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B23	1.7 - 1.83 m	Yellowish brown (10YR5/6-Moist); , 7.5YR64; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Dry; Weak consistence; Many cutans, >50% of ped faces or walls coated; Very many (50 - 100 %), Ferromanganiferous, , ; Common (10 - 20 %), Calcareous, , Tubules; Sharp change to -
2A	2.21 - 2.31 m	Reddish yellow (7.5YR6/6-Moist); ; Light clay; 20-50 mm; Moderate grade of structure, 20-50 mm, Subangular blocky; Dry; Very firm consistence; Many cutans, >50% of ped faces or walls coated; , Ferromanganiferous, , ; Very few (0 - 2 %), Calcareous, , Veins; Sharp change to -
2B	2.39 - 2.46 m	Yellowish brown (10YR5/4-Moist); ; Silty medium clay (Light); Strong grade of structure, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very weak consistence; Many cutans, >50% of ped faces or walls coated; Very many (50 - 100 %), Ferromanganiferous, , ; Few (2 - 10 %), Calcareous, , Tubules; Gradual change to -
	3 - 3.15 m	Light brown (7.5YR6/4-Moist); ; , Angular blocky; Weak consistence; Gradual change to -
	3.76 - 3.91 m	Light yellowish brown (10YR6/4-Moist); ; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; , Ferruginous, , Concretions;

Morphological Notes

Observation Notes

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	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