

Project Name: LSG
Project Code: LSG **Site ID:** CP89 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	J.R. Sleeman	Locality:	Gundarro paddock
Date Desc.:	//	Elevation:	690 metres
Map Ref.:	Sheet No. : S155-16 1:250000	Rainfall:	640
Northing/Long.:	149.1	Runoff:	Moderately rapid
Easting/Lat.:	-35.2	Drainage:	Moderately well drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Non-porous, dense, Shale

Land Form

Rel/Slope Class:	Rolling rises 9-30m 10-32%	Pattern Type:	Hills
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	10 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Kandosol		Principal Profile Form:	Gn5.51
ASC Confidence:		Great Soil Group:	Red earth
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded

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

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, , Shale

Profile Morphology

A1	0 - 0.09 m	Reddish brown (5YR4/3-Moist); ; Silty loam (Light); Massive grade of structure; Sandy (grains prominent) fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Shale, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), ; Field pH 6.2 (pH meter);
A2	0.09 - 0.2 m	Reddish brown (5YR4/4-Moist); ; Loam (Heavy); Massive grade of structure; Sandy (grains prominent) fabric; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Shale, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6.7 (pH meter);
B1	0.2 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, angular, dispersed, Shale, coarse fragments; Field pH 7.2 (pH meter);
B2	0.4 - 0.6 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Massive grade of structure; Very firm consistence; 20-50%, cobbly, 60-200mm, angular, dispersed, Shale, coarse fragments; Field pH 7.5 (pH meter);

Morphological Notes

Observation Notes

0-20CM CHANNELS + UUGHS:CANERRA GROUP SHALES MID-UPPER SILURIAN:

Site Notes

GINNINDERRA

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.09	6.2A	0.16A	6.2K	0.96	1.2	0.08	12.5B	21J		0.38
0.09 - 0.2	6.7A	0.07A	5.2K	0.69	0.84	0	6B	12.7J		0.00
0.2 - 0.4	7.2A	0.06A	5.2K	0.74	0.56	0	4.7B	11.2J		0.00
0.4 - 0.6	7.5A	0.1A	6.3K	1.5	0.48	0.1	4.8B	13.3J		0.75

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			%		
0 - 0.09		3.72D			0.351B			5	4D	36	27	27
0.09 - 0.2		1.15D			0.125B			5	4D	38	25	30
0.2 - 0.4		0.57D			0.062B			10	4D	34	25	36
0.4 - 0.6		0.48D			0.064B			43	3D	24	33	40

[illegible]

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Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance