

Project Name: Balonne-Maranoa Soil Survey and Soil Moisture Profiles
Project Code: B-M **Site ID:** K46 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Gunn, RH	Locality:	Profile K46 located 5.6 km south of Addis No. 1
Date Desc.:	01/01/74	Elevation:	No Data
Map Ref.:	Sheet No. : SG55-12 1:250000	Rainfall:	530
Northing/Long.:	148.72841	Runoff:	No Data
Easting/Lat.:	-26.71644618	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Black Vertosol		Principal Profile Form:	Ug5
ASC Confidence:		Great Soil Group:	Grey clay
Analytical data are incomplete but reasonable confidence.			

Site Disturbance:

Vegetation: Low Strata - , , . *Species includes - Tripogon loliiformis

Surface Coarse Fragments: No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, Subangular blocky; Firm consistence;
B21	0.15 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, Subangular blocky; Firm consistence;
B22	0.6 - 0.9 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, Subangular blocky; Firm consistence;
B23	0.9 - 1.27 m	Brown (10YR4/3-Moist); ; Medium clay; Massive grade of structure; Firm consistence; Few (2 - 10 %), Gypseous, , ; Few (2 - 10 %), Calcareous, , Soft segregations;
B24	1.27 - 1.5 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Massive grade of structure; Firm consistence;

Morphological Notes

Observation Notes

Site Notes

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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		%
0 - 0.15	6.1A		14.3A	7.4	0.8				
0.15 - 0.6	7.7A	0.46A							
0.6 - 0.9	7.8A		17.7A	11.2	0.22				
0.9 - 1.27	8A	0.87A							

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Laboratory Analyses Completed for this profile

15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6A1	Organic carbon - Walkley and Black
9G1	Acid-extractable phosphorus - manual colour