

Project Name: TOI **Site ID:** CP236 **Observation ID:** 1
Project Code: TOI **Agency Name:** CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	Locality:	10.1 KM in from Brown Mountain Hwy on Fostigata Road Glenbog State Forest
Date Desc.:	11/09/84	Elevation:	1040 metres
Map Ref.:	Sheet No. : 8724 1:100000	Rainfall:	740
Northing/Long.:	149.46472222222	Runoff:	Moderately rapid
Easting/Lat.:	-36.4441666666667	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Steep hills 90-300m 32-56%	Pattern Type:	Hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	225 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Acidic Mesotrophic Red Kandosol		Principal Profile Form:	Gn2.1
ASC Confidence:		Great Soil Group:	Red earth

No analytical data are available but confidence is fair.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, . . *Species includes - Eucalyptus species

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.06 m	Very dark brown (7.5YR2/2-Moist); Brown (7.5YR5/2-Dry); ; Loam; Massive grade of structure; Moist; Firm consistence; Field pH 5.1 (pH meter); Gradual change to -
A12	0.06 - 0.12 m	Dark brown (7.5YR3/3-Moist); Brown (7.5YR5/2-Dry); , 7.5YR22, 20-50% ; , 20-50% ; Clay loam; Massive grade of structure; Moist; Firm consistence; Field pH 5.1 (pH meter); Gradual change to -
B1	0.12 - 0.18 m	Dark brown (7.5YR3/3-Moist); Light brown (7.5YR6/4-Dry); , 7.5YR22, 2-10% ; , 2-10% ; Clay loam; Weak grade of structure, 50-100 mm, Subangular blocky; Moist; Weak consistence; , Unidentified, Coarse (6 - 20 mm), Soft segregations; Field pH 5.2 (pH meter); Gradual change to -
B21	0.18 - 0.28 m	Strong brown (7.5YR4/6-Moist); Light brown (7.5YR6/4-Dry); , 5YR46, 20-50% ; , 7.5YR22, 20-50% ; Light clay; Massive grade of structure; Moist; Weak consistence; , Unidentified, Coarse (6 - 20 mm), Soft segregations; Field pH 5.3 (pH meter); Gradual change to -
B22	0.28 - 0.4 m	Yellowish red (5YR4/6-Moist); Reddish yellow (5YR6/6-Dry); , 7.5YR22, 2-10% ; , 2-10% ; Light clay; Massive grade of structure; Moist; Firm consistence; , Unidentified, Coarse (6 - 20 mm), Soft segregations; Field pH 5.4 (pH meter); Gradual change to -
B23	0.4 - 0.6 m	Yellowish red (5YR4/6-Moist); Reddish yellow (5YR7/6-Dry); , 5YR56, 20-50% ; , 20-50% ; Light clay; Massive grade of structure; Moist; Firm consistence; , Unidentified, Coarse (6 - 20 mm), Soft segregations; Field pH 5.4 (pH meter); Gradual change to -
C1	0.6 - 0.8 m	Strong brown (7.5YR5/6-Moist); Reddish yellow (5YR7/6-Dry); ; Loam; Massive grade of structure; Moist; Weak consistence; Field pH 5.6 (pH meter); Gradual change to -
C2	0.8 - 1 m	Strong brown (7.5YR5/8-Moist); ; Massive grade of structure; Moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 5.6 (pH meter); Gradual change to -
C2	1 - 1.2 m	Strong brown (7.5YR5/8-Moist); ; Massive grade of structure; Moist; Very weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Many (20 - 50 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 5.7 (pH meter); Gradual change to -

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C3 1.2 - 1.5 m ; Massive grade of structure; Moist; Loose consistence; Many cutans, >50% of ped faces or walls coated, prominent; Very many (50 - 100 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 5.5 (pH meter); Gradual change to -

Morphological Notes

Observation Notes

BEGA BATHOLITH/BEMBOKA SUITE:120-150CM LOOSE GRANITE

Site Notes

BEMBOKA

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6.2.11 (NOM)

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
			Ca	Mg	K					
0 - 0.06	5.1A	0.08A	4.6K	1.3	0.81		19.5B	26.2J		
0.06 - 0.12	5.1A	0.05A	2.8K	1.1	0.62	0.05	1.69B	21.5J		0.23
0.12 - 0.18	5.2A	0.04A	1.4K	0.88	0.79	0.02	14.3B	17.4J		0.11
0.18 - 0.28	5.3A	0.03A	1K	0.96	0.74	0.01	13.7B	16.4J		0.06
0.28 - 0.4	5.4A	0.03A	0.75K	0.97	0.66	0.01	11.3B	13.7J		0.07
0.4 - 0.6	5.4A	0.02A	0.11K	0.7	0.56	0.01	11.4B	12.8J		0.08
0.6 - 0.8	5.6A	0.02A		0.48	0.5	0.03	9.7B	10.7J		0.28
0.8 - 1	5.6A	0.01A		0.22	0.48		9.4B	10.1J		
1 - 1.2	5.7A	0.01A		0.14	0.47		9B	9.6J		
1.2 - 1.5	5.5A	0.01A		0.18	0.28		8.7B	9.1J		

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Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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