

Project Name: FLI
Project Code: FLI **Site ID:** H59 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	14.6km ENE of Lughrata 8.9km SSE of Wingaroo.
Date Desc.:	18/04/53	Elevation:	9 metres
Map Ref.:	Sheet No. : 8518 1:100000	Rainfall:	730
Northing/Long.:	148.083333333333	Runoff:	Slow
Easting/Lat.:	-39.916666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Calcareous sand

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Petrocalcic Grey Kandosol		Principal Profile Form:	Db4.63
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Forb, 0.26-0.5m, Very sparse. *Species includes - None recorded
Tall Strata - Tree, 1.01-3m, Sparse. *Species includes - Xanthorrhoea australis, Banksia marginata

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, rounded, Quartz

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Massive grade of structure; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; ManyDiffuse change to -
A1/A2	0.1 - 0.23 m	Greyish brown (10YR5/2-Moist); ; Loamy sand; Massive grade of structure; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; CommonSharp change to -
A2	0.23 - 0.36 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Sharp change to -
B1	0.36 - 0.48 m	Greyish brown (10YR5/2-Moist); , 10YR33; , 10YR56; Sand; Single grain grade of structure; Moderately moist; 10-20%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Diffuse change to -
	0.49 - 0.58 m	Greyish brown (10YR5/2-Moist); , 10YR56; Sandy medium clay; Massive grade of structure; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Diffuse change to -
	0.61 - 0.63 m	; Calcrete, Very strongly cemented, Continuous, Massive;
	0.91 - 1.02 m	Brownish yellow (10YR6/6-Moist); , 10YR64; Sand; Loose consistence; 10-20%, Substrate material, coarse fragments;
	1.68 - 1.78 m	Light bluish grey (5B7/1-Moist); , 10YR64; Sand; Loose consistence; 10-20%, Shells, coarse fragments;

Morphological Notes

Observation Notes

>63CM CALCIFIED SAND:58-61CM MAT OF ROOTS ON LIMESTONE LAYER:61-63CM SOLID LIMESTONE:

Site Notes

MEMANA

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Laboratory Analyses Completed for this profile

15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
19A1	Carbonates - rapid titration
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
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
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette