

Project Name: FLI
Project Code: FLI **Site ID:** H56 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	Near site 53 on Bootjack survey:5.3km NW of Lady Barron.
Date Desc.:	15/04/53	Elevation:	16 metres
Map Ref.:	Sheet No. : 8517 1:100000	Rainfall:	750
Northing/Long.:	148.2	Runoff:	No runoff
Easting/Lat.:	-40.1833333333333	Drainage:	Very poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Lagoon	Slope Category:	Level
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Sodic Lithocalcic Grey Chromosol		Principal Profile Form:	Dd2.33
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

Site Disturbance: Cultivation. Rainfed

Vegetation: Low Strata - Sedge, 0.26-0.5m, Sparse. *Species includes - None recorded
Tall Strata - Shrub, 1.01-3m, Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
A1A2	0.04 - 0.08 m	Greyish brown (10YR5/2-Moist); ; Sandy loam; Massive grade of structure; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
A2	0.08 - 0.18 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, rounded, stratified, Gravel, coarse fragments; Irregular change to -
B	0.13 - 0.16 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Strong grade of structure, 100-200 mm, Columnar; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;
B	0.16 - 0.23 m	Dark greyish brown (10YR4/2-Moist); , 10YR54; Heavy clay; Strong grade of structure, 100-200 mm, Columnar; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; CommonDiffuse change to -
B	0.23 - 0.32 m	Very dark greyish brown (10YR3/2-Moist); , 10YR54; Heavy clay; Strong grade of structure, 100-200 mm, Columnar; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;
B	0.34 - 0.52 m	Very dark grey (10YR3/1-Moist); , 10YR78; Heavy clay; Weak grade of structure, 100-200 mm, Columnar; Fine, (0 - 5) mm crack; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;
B	0.58 - 0.69 m	Dark grey (10YR4/1-Moist); , 10YR66; Heavy clay; Massive grade of structure; Fine, (0 - 5) mm crack; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;
B	0.72 - 0.84 m	Dark grey (10YR4/1-Moist); , 10YR68; Heavy clay; Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;

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B	0.89 - 1.04 m	Grey (10YR5/1-Moist); , 10YR68; , 10YR81; Heavy clay; Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Concretions;
	1.68 - 1.83 m	Dark bluish grey (5B4/1-Moist); , 5B61; , 10YR78; Heavy clay (Light); Slightly plastic; Normal plasticity; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments;
	2.51 - 2.59 m	Greenish grey (5G6/1-Moist); ; Sandy medium clay; Very weak consistence; 0-2%, Gravel, coarse fragments;

Morphological Notes

Observation Notes

193-228CM <2% <6MM ROUNDED QZ GV:0-183CM COARSE FRACTION ALL OF GRIT SIZE:BOOTJACK SERIES:

Site Notes

COOMA

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[illegible]

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Laboratory Analyses Completed for this profile

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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
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