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

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 DataPattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:LagoonSlope Category:LevelSlope:0 %Aspect:0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ABleached-Sodic Lithocalcic Grey ChromosolPrincipal Profile Form:Dd2.33ASC Confidence:Great Soil Group:Solodic soil

All necessary analytical data are available. **Site Disturbance:** Cultivation. Rainfed

fragments:

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

В

0.72 - 0.84 m

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 -
В	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;
В	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 -
В	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;
В	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;
В	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

consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;

Dark grey (10YR4/1-Moist); , 10YR68; Heavy clay; Massive grade of structure; Moist; Firm

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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; 0.89 - 1.04 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; 1.68 - 1.83 m

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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Depth	pH	1:5 EC	Evo	hangeable	Cations		Exchangeable	CEC		ECEC	_	SP
Depth	рп	1:5 EC		nangeable Mg	K	Na	Acidity	CEC		ECEC	-	32
m		dS/m		_		Cmol (+)/kg				9	6
0 - 0.04	6A		9.9H	3.8	0.54	0.81	5.3H 10.5E		2	25.7B		
0.04 - 0.08 0.08 - 0.18	6.4A 6.4A		2H	0.88	0.08	0.16	1.3H 2.3E			5.4B		
0.13 - 0.16	6.2A		6.2H	3.7	0.2	0.82	2.3E 1.8H 4.3E			15.2B		
0.16 - 0.23 0.23 - 0.32	6.7A 7.1A		8.8H	6	0.2	1.7	4.2E		;	20.9B		
0.34 - 0.52	7.7A											
0.58 - 0.69 0.72 - 0.84 0.89 - 1.04	7.9A 7.9A 8.4A		6.1H	4.6	0.21	1.5	1.7E			14.1B		
1.68 - 1.83 2.51 - 2.59	7.8A 8.3A											
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Sizo A	nalysis	
		Č	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%										•	Clay
0 - 0.04	%	c % 3.7D	Р	Р	N %	K %	Density			FS	•	Clay 14
	%	С %	Р	P %	N % O 0.25	K %	Density	GV	cs	FS %	Silt (-
0 - 0.04 0.04 - 0.08 0.08 - 0.18 0.13 - 0.16	%	3.7D 1.92D 0.74D 1.49D	Р	P %	N % 0 0.25 0 0.06 0 0.1	K % 54A 65A 1A	Density	GV 1	cs 39B	FS %	Silt (14
0 - 0.04 0.04 - 0.08 0.08 - 0.18 0.13 - 0.16 0.16 - 0.23 0.23 - 0.32		3.7D 1.92D 0.74D 1.49D 1.44D 1.08D	Р	0.003E	N % 0 0.25 0 0.06	64A 65A 1A 9A	Density	GV 1 6	cs 39B 62B	FS % 31 26	10 5	14 6
0 - 0.04 0.04 - 0.08 0.08 - 0.18 0.13 - 0.16 0.16 - 0.23 0.23 - 0.32 0.34 - 0.52 0.58 - 0.69	0.03A 0.02A	3.7D 1.92D 0.74D 1.49D 1.44D 1.08D 0.8D 3.2D	Р	0.003E	N % O 0.25 O 0.06 O 0.1 0.11 0.09	64A 65A 1A 9A	Density	GV 1 6 9	39B 62B 55B	FS % 31 26 19	10 5 4	14 6 22
0 - 0.04 0.04 - 0.08 0.08 - 0.18 0.13 - 0.16 0.16 - 0.23 0.23 - 0.32 0.34 - 0.52	0.03A	3.7D 1.92D 0.74D 1.49D 1.44D 1.08D 0.8D 3.2D	Р	0.003E 0.001E 0.001E	N % O 0.25 O 0.06 O 0.1 0.11 0.09	64A 65A 1A 9A	Density	GV 1 6 9 5	39B 62B 55B 43B	FS % 31 26 19 18	10 5 4 7	14 6 22 31
0 - 0.04 0.04 - 0.08 0.08 - 0.18 0.13 - 0.16 0.16 - 0.23 0.23 - 0.32 0.34 - 0.52 0.58 - 0.69 0.72 - 0.84	0.03A 0.02A 0.03A	3.7D 1.92D 0.74D 1.49D 1.44D 1.08D 0.8D 32D	Р	0.003E 0.001E 0.001E	N % O 0.25 O 0.06 O 0.1 0.11 0.09	64A 65A 1A 9A	Density	GV 1 6 9 5	39B 62B 55B 43B	FS % 31 26 19 18	10 5 4 7	14 6 22 31
0 - 0.04 0.04 - 0.08 0.08 - 0.18 0.13 - 0.16 0.16 - 0.23 0.23 - 0.32 0.34 - 0.52 0.58 - 0.69 0.72 - 0.84 0.89 - 1.04 1.68 - 1.83 2.51 - 2.59	0.03A 0.02A 0.03A 0.61A 0.02A 0.22A	3.7D 1.92D 0.74D 1.49D 1.44D 1.08D 0.8D 32D	P mg/kg	0.003E 0.001E 0.001E	N % % 0 0.25 0 0.06 0 0.1 0.11 0.09	64A 65A 1A 19A 97A	Density Mg/m3	GV 1 6 9 5	39B 62B 55B 43B 49B	FS % 31 26 19 18 17	10 5 4 7 <1	14 6 22 31 34
0 - 0.04 0.04 - 0.08 0.08 - 0.18 0.13 - 0.16 0.16 - 0.23 0.23 - 0.32 0.34 - 0.52 0.58 - 0.69 0.72 - 0.84 0.89 - 1.04 1.68 - 1.83	0.03A 0.02A 0.03A 0.61A 0.02A	3.7D 1.92D 0.74D 1.49D 1.44D 1.08D 0.8D 32D	P mg/kg	0.003E 0.001E 0.001E	N % O 0.25 O 0.06 O 0.1 0.11 0.09	64A 65A 1A 19A 97A	Density Mg/m3	GV 1 6 9 5	39B 62B 55B 43B	FS % 31 26 19 18 17	10 5 4 7	14 6 22 31 34

0 - 0.04 0.04 - 0.08 0.08 - 0.18 0.13 - 0.16 0.16 - 0.23 0.23 - 0.32 0.34 - 0.52 0.58 - 0.69 0.72 - 0.84

0.89 - 1.04 1.68 - 1.83 2.51 - 2.59

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Laboratory Analyses Completed for this profile

15E1_CA

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 15E1_K

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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
Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
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 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 (%) - F

P10A1_CS Coarse sand (%) - Pipette
P10A1_FS Fine sand (%) - Pipette
P10A1_Z Silt (%) - Pipette