Project Name: FLI
Project Code: FLI **Site ID:** H35 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	**Locality:**	On rd. west of Cameron Inlet 2.1km. from Chew Tobacco creek:
Date Desc.:	12/03/52	**Elevation:**	5 metres
Map Ref.:	Sheet No. : 8517 1:100000	**Rainfall:**	750
Northing/Long.:	148.183333333333	**Runoff:**	Slow
Easting/Lat.:	-40.1333333333333	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Soil pit, 1.2 m deep,Limestone

Land Form

Rel/Slope Class:	Level plain <9m <1%	**Pattern Type:**	Plain
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Lagoon	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Subnatric Black Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dd3.13
Great Soil Group: Humic gley

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Black (10YR2/1-Dry); ; Loam (Sapric); Single grain grade of structure; Moderately moist; Weak consistence; 0-2%, Gravel, coarse fragments; ManyDiffuse change to -
A	0.05 - 0.18 m	Very dark grey (10YR3/1-Dry); ; Loam (Sapric); Single grain grade of structure; Moderately moist; Weak consistence; 0-2%, Gravel, coarse fragments; CommonDiffuse change to -
B	0.2 - 0.38 m	Very dark grey (10YR3/1-Dry); ; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Sharp change to -
B	0.66 - 0.96 m	Brownish yellow (10YR6/6-Moist); , 10YR62; Heavy clay; Moderately moist; Weak consistence; 0-2%, Quartz, coarse fragments; Clear change to -
	0.96 - 1.22 m	Very pale brown (10YR7/3-Moist); , 10YR66; Heavy clay;

Morphological Notes

Observation Notes

SAMPLE 3 AND 4 ARE 20MM FROM TOP AND BOTTOM OF COLUMN RESPECTIVELY:>38CM CA CONCRETIONS (<50CM) + SHELLS INCREASING: NELSON SERIES:

Site Notes

NALA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.05	6.7A						25.2E	57.7C		
0.05 - 0.18	6.6A							54.8C		
0.2 - 0.38	7.6A		19.4H	7.3	0.6	3	2.9E	31C	33.2B	9.68
0.66 - 0.96	8.4A							28.2C		

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		12.2D		0.037D	1.01A							
0.05 - 0.18		6.7D			0.57A							
0.2 - 0.38	0.03A	2.4D			0.27A			13	46D	19	10	17
0.66 - 0.96	0.1A	0.7D										

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.05										
0.05 - 0.18										
0.2 - 0.38										
0.66 - 0.96										

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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 (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
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
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 (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance