Project Name: FLI
Project Code: FLI **Site ID:** H44 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	40m north of Ferguson`s track 0.6km from Nelsons lagoon rd.
Date Desc.:	06/12/52	**Elevation:**	5 metres
Map Ref.:	Sheet No. : 8517 1:100000	**Rainfall:**	750
Northing/Long.:	148.183333333333	**Runoff:**	Very slow
Easting/Lat.:	-40.1	**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:	Level plain <9m <1%	**Pattern Type:**	Beach ridge plain
Morph. Type:	Closed Depression	**Relief:**	No Data
Elem. Type:	Lagoon	**Slope Category:**	Level
Slope:	0 %	**Aspect:**	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Calcareous Sodosolic Redoxic Hydrosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: Dd4.33
Great Soil Group: Wiesenboden

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.04 m	Light grey (10YR7/1-Moist); ; Sandy loam; Weak grade of structure, <2 mm, Platy; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Sharp, Irregular change to -
AB	0.04 - 0.064 m	Light grey (10YR7/1-Moist); , 10YR42; , 5Y62; Sandy loam; 0-2%, Gravel, coarse fragments; Many
B	0.064 - 0.15 m	Dark greyish brown (10YR4/2-Moist); , 5Y62; , 10YR68; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, Gravel, coarse fragments; ManyDiffuse change to -
B	0.15 - 0.28 m	Dark greyish brown (10YR4/2-Moist); , 5Y62; , 10YR68; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; ManyDiffuse change to -
B	0.3 - 0.46 m	Dark grey (10YR4/1-Moist); , 5Y52; Heavy clay; Massive grade of structure; Moist; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; CommonDiffuse change to -
B	0.53 - 0.63 m	Dark grey (10YR4/1-Moist); , 10YR68; Heavy clay; Massive grade of structure; Moist; 0-2%, Gravel, coarse fragments; CommonDiffuse change to -
B	0.71 - 0.84 m	Dark grey (10YR4/1-Moist); , 10YR56; Heavy clay; Massive grade of structure; Moist; Few (2 - 10 %), Ferruginous, , Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; CommonDiffuse change to -
B	0.94 - 1.07 m	Dark grey (10YR4/1-Moist); , 10YR56; Heavy clay; Massive grade of structure; Moist; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Common (10 - 20 %), Gypseous, Very coarse (20 - 60 mm), Crystals; Common

Morphological Notes

Observation Notes

>274CM ON <90% SHELLS SOME WELL PRESERVED:6.4-28CM DbG STAINS ON AGGREGATES:

Site Notes

NALA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.04	6.4A		4.9H	3.4	0.39	0.91	5.5H	13.7C	19.4B	6.64
							9.8E			
0.04 - 0.064	6A							25.2C		
0.064 - 0.15	6.1A		10.8H	11.2	0.34	14.1	7.5H	37C	39.8B	38.11
						3.4	14.1E			9.19
0.15 - 0.28	6.7A							43.4C		
0.3 - 0.46	7.6A							48C		
0.53 - 0.63	8.2A									
0.71 - 0.84	8.2A		16.9H	14.5	0.45	11.9		52.2C	43.8B	22.80
0.94 - 1.07	7.6A									

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 - 0.04		2.77D		0.002D	0.134A			1	22D	46	12	13
0.04 - 0.064		2.52D		0.003D	0.133A							
0.064 - 0.15		2.11D			0.105A			2	11B	19	8	59
0.15 - 0.28		2D										
0.3 - 0.46	0.05A	1.3D										
0.53 - 0.63	0.08A											
0.71 - 0.84	2.6A							1	6B	12	7	71
0.94 - 1.07	0.09A											

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m					g/g - m3/m3				mm/h	mm/h
0 - 0.04										
0.04 - 0.064										
0.064 - 0.15										
0.15 - 0.28										
0.3 - 0.46										
0.53 - 0.63										
0.71 - 0.84										
0.94 - 1.07										

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Laboratory Analyses Completed for this profile

15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
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
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 (%)
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
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette