Project Name: **FLI**
Project Code: **FLI** **Site ID:** **H45** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (TAS)**

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	1.2km ENE from Thule:4.1km from Whitemark
Date Desc.:	10/12/52	**Elevation:**	91 metres
Map Ref.:	Sheet No. : 8517 1:100000	**Rainfall:**	820
Northing/Long.:	148.066666666667	**Runoff:**	Very slow
Easting/Lat.:	-40.1166666666667	**Drainage:**	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Plateau
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry): Hardsetting, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Acidic-Mottled Self-Mulching Aquic Vertosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Ug5.2
Great Soil Group: Grey clay

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments: 2-10%, bouldery, 600mm-2m, , Basalt

Profile Morphology

0 - 0.11 m	Olive grey (5Y5/2-Moist); , 10YR56; , 10YR52; Heavy clay; Moderate grade of structure, 10-20 mm, Granular; Very strong consistence; 0-2%, Gravel, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
0.11 - 0.24 m	Olive grey (5Y5/2-Moist); , 10YR56; , 10YR52; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Very weak consistence; CommonDiffuse change to -
0.24 - 0.36 m	Yellowish brown (10YR5/6-Moist); , 5Y52; , 10YR52; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Firm consistence; CommonDiffuse change to -
0.36 - 0.51 m	Light brownish grey (2.5Y6/2-Moist); , 10YR54; Heavy clay; Slightly plastic; Normal plasticity; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Diffuse change to -
0.58 - 0.74 m	Light brownish grey (2.5Y6/2-Moist); , 10YR54; Heavy clay; Slightly plastic; Normal plasticity; Diffuse change to -
0.89 - 1.07 m	Light grey (10YR7/1-Moist); , 10YR56; Heavy clay; Very weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
1.63 - 1.78 m	Yellowish brown (10YR5/6-Moist); , 10YR54; , 5Y62; Heavy clay; Weak consistence;

Morphological Notes

Observation Notes
SITE IS ON PUFF

Site Notes
METTA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.11	5.7A		14.7H	19.9	27.4	2	10.1H 19.7E	49.8C	59B	4.02
0.11 - 0.24	6A							51.5C		
0.24 - 0.36	6.4A							52.5C		
0.36 - 0.51	6.1A							50.5C		
0.58 - 0.74	5.4A		13.3H	20.8	1.88	3.4	10.8H 18.2E	52.2C	57.6B	6.51
0.89 - 1.07	5A									
1.63 - 1.78	5.2A		3.9H	19.9	1.4	9.1	22H 30.4E	56.4C	64.7B	16.13

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 - 0.11		2.44D		0.017D	0.157A			1	4B	4	8	78
0.11 - 0.24		1.24D			0.068A			0	3B	3	11	80
0.24 - 0.36		1D										
0.36 - 0.51		0.7D										
0.58 - 0.74				0.008D				0	1B	2	10	86
0.89 - 1.07												
1.63 - 1.78								0	2B	5	25	67

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 - 0.11									
0.11 - 0.24									
0.24 - 0.36									
0.36 - 0.51									
0.58 - 0.74									
0.89 - 1.07									
1.63 - 1.78									

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
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)
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