Project Name: **STM**
Project Code: **STM** **Site ID:** **H50** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (TAS)**

Site Information

Desc. By: C.G. Stephens
Date Desc.: 22/01/53
Map Ref.: Sheet No. : 8514 1:100000
Northing/Long.: 148.033333333333
Easting/Lat.: -41.5666666666667
Locality:
Elevation: 244 metres
Rainfall: 790
Runoff: Slow
Drainage: Imperfectly drained

Geology

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

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Pedal Aquic Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.15
Great Soil Group: Humic gley

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Black (10YR2/1-Moist); ; Heavy clay; 20-50 mm, Angular blocky; Very strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Gravel, coarse fragments; Diffuse change to -
A	0.1 - 0.23 m	Black (10YR2/1-Moist); ; Heavy clay; 20-50 mm, Angular blocky; Very strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Gravel, coarse fragments; Diffuse change to -
A	0.24 - 0.36 m	Black (10YR2/1-Moist); ; Heavy clay; Firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
A/B	0.36 - 0.48 m	Black (10YR2/1-Moist); , 5Y32; Heavy clay; Moist; Moderately plastic; Normal plasticity; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.48 - 0.58 m	Black (10YR2/1-Moist); , 5Y52; , 5Y32; Heavy clay; , Prismatic; Fine, (0 - 5) mm crack; Moist; Moderately plastic; Normal plasticity; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Diffuse change to -
B/C	0.61 - 0.81 m	Olive grey (5Y5/2-Moist); , 10YR56; Heavy clay; , Prismatic; Fine, (0 - 5) mm crack; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
C	0.84 - 1.07 m	Yellowish brown (10YR5/6-Moist); , 5Y62; Heavy clay; Wet; 50-90%, Gravel, coarse fragments;

Morphological Notes

Observation Notes

>117CM ON GRAVEL:48-107CM SLIGHT DIFFUSE LIME:24-48CM STRUCTURE IRREGULAR LUMPY WITH IRREGULAR CLEAVAGE PLANES:

Site Notes

CORNWALL

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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 - 0.1	5.9A		35.7H	10.9	0.59	0.47	10.2H 19.4E		67.76B	
0.1 - 0.23	6.2A									
0.24 - 0.36	6.9A		32.8H	13	0.38	0.58	4.7E		51.11B	
0.36 - 0.48	7.7A									
0.48 - 0.58	7.8A		24.3H	7	0.2	0.6	1.1E		33.2B	
0.61 - 0.81	8.3A									
0.84 - 1.07	8.3A		17.2K	3.8	0.12	0.8			22B	

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 - 0.1		6.05F 4.4D		0.016D	0.541A			1	3B	12	21	54
0.1 - 0.23		4F 2.83D			0.38A							
0.24 - 0.36		1.7F 1.14D		0.006D	0.154A			0	4B	18	17	57
0.36 - 0.48												
0.48 - 0.58		0.51F 0.37D			0.056A			0	11B	30	16	43
0.61 - 0.81	0.5A											
0.84 - 1.07								49	26B	25	14	30

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 - 0.1										
0.1 - 0.23										
0.24 - 0.36										
0.36 - 0.48										
0.48 - 0.58										
0.61 - 0.81										
0.84 - 1.07										

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
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
6_DC	Organic carbon (%) - Dry combustion
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