STM **Project Name:**

Project Code: Site ID: H49 Observation ID: 1 STM

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: Date Desc.: Locality: C.G. Stephens Elevation: 22/01/53 274 metres Map Ref.: Sheet No.: 8514 1:100000 Rainfall: 790 Northing/Long.: 148.033333333333 Runoff: Rapid

Easting/Lat.: -41.5666666666667 Drainage: Imperfectly drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Geol. Ref.: **Substrate Material:** Unconsolidated material (unidentified) No Data

Land Form

Rel/Slope Class: Undulating plains <9m 3-10% Pattern Type: Terrace (alluvial) Morph. Type: Elem. Type: No Data Relief: No Data Slope Category: Gently inclined Plain Aspect: Slope: 0 % No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Eutrophic Mottled-Subnatric Brown Sodosol **Principal Profile Form:** Dy3.41

ASC Confidence: Great Soil Group: Gleyed podzolic

All necessary analytical data are available. soil

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

20%, rounded, Gravel, coarse fragments;

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - Medicago sativa

Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus ovata

Surface Coarse Fragments: 0-2%, , subrounded, Dolerite

Profile Morphology

A11	0 - 0.064 m	Greyish brown (10YR5/2-Moist); ; Fine sandy loam; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; AbundantDiffuse change to -
A12	0.064 - 0.13 m	Greyish brown (10YR5/2-Moist); , 10YR71; Fine sandy loam (Light); Firm consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Diffuse change to -
A21	0.14 - 0.22 m	Light grey (10YR7/2-Moist); ; Loamy sand; Firm consistence; 2-10%, Dolerite, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Concretions; Diffuse change to -
A22	0.22 - 0.3 m	Light grey (10YR7/2-Moist); ; Loamy sand; Firm consistence; 2-10%, Dolerite, coarse fragments; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Concretions; Sharp change to -
B1	0.32 - 0.43 m	Yellowish brown (10YR5/4-Moist); , 10YR58; Heavy clay; Fine, (0 - 5) mm crack; Very firm consistence; 2-10%, Dolerite, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 - 6 mm), Concretions; Diffuse change to -
B1	0.43 - 0.56 m	Yellowish brown (10YR5/8-Moist); , 5Y62; Heavy clay; Massive grade of structure; Moist; 2-10%, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, , Concretions; Diffuse change to -
B1g	0.56 - 0.71 m	Yellowish brown (10YR5/8-Moist); , 5Y62; Heavy clay; Massive grade of structure; Moist; 0-2%, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B1g	0.71 - 0.91 m	Yellowish brown (10YR5/6-Moist); , 5Y62; Heavy clay; Massive grade of structure; Moist; 0-2%, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
	0.94 - 1.17 m	Yellowish brown (10YR5/6-Moist); , 5Y62; Heavy clay; Massive grade of structure; 0-2%, rounded, Gravel, coarse fragments; Diffuse change to -
С	1.22 - 1.4 m	Yellowish brown (10YR5/6-Moist); , 5Y62; Heavy clay; Massive grade of structure; Moist; 10-

Morphological Notes

Project Name: STM

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Observation Notes
32-43CM WEAKLY DEVELOPED VERTICAL CLEAVAGE FACES:14-30CM QUARTZITE COARSE FRACTION ALSO:122-140CM MEALY CLAY: FRODSLEY SERIES:

Site Notes

CORNWALL

Project Name: STM
Project Code: STM Site ID: H44
Agency Name: CSIRO Division of Soils (TAS) H49 Observation ID: 1

Laboratory Test Results:												
Depth	pН	1:5 EC		nangeable ⁄Ig	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m		9		Cmol (-					9/	6
0 - 0.064 5.5A			3.1H	1.2	0.18	0.19	5H 8.7E			13.37B		
0.064 - 0.13	5.4A		2.5H	0.12	0.08	0.17		6.5C	;		2.	62
0.14 - 0.22	5.6A		1.7H	0.6	0.07	0.06	1.9H 3.8E	5.30	;	6.23B	1.	13
0.22 - 0.3	5.5A		1.3H	0.55	0.04	0.13		3.80	;		3.	42
0.32 - 0.43	5.7A		4.5H	7.5	0.22	1.3	11.4H 17.6E	28.80	C	27.7B	4.	51
0.43 - 0.56	5.5A		3H	7.8	0.23	1.3	17.6E		2	29.95B		
0.56 - 0.71	5.7A		1.1H	10.5	0.18	1.5						
0.71 - 0.91	5.7A		1.2H	9.3	0.18	1.2		31.40	2		3.	82
0.94 - 1.17	5.7A		0.95H	7.8	0.19	1.2						
1.22 - 1.4	5.6A		0.63H	9.1	0.21	1.8	11.7H 14.7E			26.4B		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	l Bulk Density	Pa GV	rticle CS	Size A	nalysis Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.064 0.064 - 0.13		2.44D 1.14D		0.007E 0.004E	-	-		9	17B	51	18	9
0.14 - 0.22		0.54D			0.05	52A						
0.22 - 0.3		0.24D						40	24B	47	19	10
0.32 - 0.43		0.44D		0.003	0.04	15A		6	9B	22	10	58
0.43 - 0.56												
0.56 - 0.71												
0.71 - 0.91								2	10B	22	16	52
0.94 - 1.17												
1.22 - 1.4												
Depth	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										K unsat	
Sat. 0.05 Bar 0.1 Bar 0.5 Bar 15 Bar 15 Bar mm/h mm/h mm/h												

0 - 0.064 0.064 - 0.13 0.14 - 0.22 0.14 - 0.22 0.22 - 0.3 0.32 - 0.43 0.43 - 0.56 0.56 - 0.71 0.71 - 0.91 0.94 - 1.17 1.22 - 1.4

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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

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 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