

Project Name: STM
Project Code: STM **Site ID:** H48 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: C.G. Stephens	Locality:
Date Desc.: 21/01/53	Elevation: 247 metres
Map Ref.: Sheet No. : 8514 1:100000	Rainfall: 790
Northing/Long.: 148.033333333333	Runoff: Slow
Easting/Lat.: -41.566666666667	Drainage: Moderately well 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: Undulating rises 9-30m 3-10%	Pattern Type: Terrace (alluvial)
Morph. Type: No Data	Relief: No Data
Elem. Type: Valley flat	Slope Category: Gently inclined
Slope: 0 %	Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Bleached-Mottled Mesotrophic Grey Kandosol	Principal Profile Form: Gn2.95
ASC Confidence:	Great Soil Group: Yellow podzolic soil
All necessary analytical data are available.	

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
 Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus pauciflora

Surface Coarse Fragments:

Profile Morphology

A1p	0 - 0.11 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Single grain grade of structure; Moist; Weak consistence; Sharp change to -
A2	0.14 - 0.24 m	Brown (10YR4/3-Moist); ; Sand; Single grain grade of structure; Moist; Weak consistence; Diffuse change to -
A2	0.27 - 0.36 m	Yellowish brown (10YR5/4-Moist); ; Sand; Single grain grade of structure; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
A2B1	0.38 - 0.51 m	Light olive grey (5Y6/2-Moist); , 2.5Y54, 0-2% ; , 0-2% ; Sand; Single grain grade of structure; Firm consistence; Diffuse change to -
A2B1	0.51 - 0.66 m	Light olive grey (5Y6/2-Moist); , 2.5Y54, 2-10% ; , 2-10% ; Sand; Single grain grade of structure; Firm consistence; Diffuse change to -
B2	0.69 - 0.84 m	Light olive grey (5Y6/2-Moist); , 2.5Y54, 2-10% , Distinct; , 2-10% , Distinct; Clayey sand; Single grain grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Diffuse change to -
Bg	0.86 - 1.09 m	Light grey (5Y7/1-Moist); , 5Y62; , 10YR56; Sandy clay loam; Massive grade of structure; Fine, (0 - 5) mm crack; Firm consistence; Diffuse change to -
Bg	1.12 - 1.32 m	Light grey (5Y7/1-Moist); , 10YR56; , 10YR53; Sandy medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Firm consistence; Sharp change to -
	1.32 - 1.55 m	Light grey (5Y7/1-Moist); , 10YR56; , 10YR53; Sandy medium clay; 2-10%, rounded, Sandstone, coarse fragments; Diffuse change to -
	1.55 - 1.73 m	Light grey (5Y7/1-Moist); , 10YR56; , 2.5YR48; Heavy clay; 2-10%, rounded, Gravel, coarse fragments;

Morphological Notes

Observation Notes

>173CM ON WATER WORN DOLERITE STONES:86-132CM WEAKLY DEVELOPED VERTICALCLEAVAGE FACES:

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Site Notes

CORNWALL

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Laboratory Test Results:

[illegible][illegible][illegible]

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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