

Project Name: HEL
Project Code: HEL **Site ID:** H124 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	South west corner of Aerodrome Wykyard:
Date Desc.:	21/05/55	Elevation:	18 metres
Map Ref.:	Sheet No. : 8016 1:100000	Rainfall:	1010
Northing/Long.:	145.716666666667	Runoff:	Very slow
Easting/Lat.:	-40.9958333333333	Drainage:	Very poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.8 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Sand plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Parapanic Humic Aquic Podosol		Principal Profile Form:	Uc2.33
ASC Confidence:		Great Soil Group:	Podzol
All necessary analytical data are available.			

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.08 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Single grain grade of structure; Moderately moist; Weak consistence; ManyDiffuse change to -
A12	0.08 - 0.13 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Single grain grade of structure; Moderately moist; Very weak consistence; CommonDiffuse change to -
A21	0.18 - 0.38 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Moist; Very weak consistence; Common
A22	0.38 - 0.61 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Wet; Very weak consistence; FewSharp, Irregular change to -
B1	0.74 - 0.89 m	Very dark brown (10YR2/2-Moist); ; Sand (Fibric); Single grain grade of structure; Wet; Firm consistence; Organic pan, Moderately cemented, Continuous, Massive;
B	0.89 - 1.14 m	Very dark brown (10YR2/2-Moist); ; Sand; Single grain grade of structure; Moist; Firm consistence; Organic pan, Strongly cemented, Continuous, Massive;
B	1.14 - 1.35 m	Very dark brown (10YR2/2-Moist); ; Sand; Single grain grade of structure; Wet; Very firm consistence; Organic pan, Strongly cemented, Continuous, Massive;

Morphological Notes

Observation Notes

AT 178CM GRAVEL STOPPED AUGER:

Site Notes

WELLINGTON

Observation ID: 1

Laboratory Test Results:

[illegible][illegible][illegible]

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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 (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_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