Project Name: **Botanic Gardens Annex, S.A.**
Project Code: **BGA** **Site ID:** **A951** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: Malcolm J. Wright
Date Desc.: 01/06/65
Map Ref.:
Northing/Long.: 138.716666666667
Easting/Lat.: -34.65
Locality:
Elevation: 640 metres
Rainfall: 0
Runoff: Rapid
Drainage: Well drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Acidic Dystrophic Brown Kandosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Yellow podzolic soil

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.09 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Massive grade of structure; Weak consistence;
0.09 - 0.2 m	Dark grey (10YR4/1-Moist); ; Loamy sand; Massive grade of structure; Weak consistence; 10-20%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Many, fine (1-2mm) roots; Clear change to -
0.2 - 0.33 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam; Massive grade of structure; Weak consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Common, fine (1-2mm) roots; Clear change to -
0.33 - 0.75 m	Yellow (10YR7/6-Moist); ; Sandy clay loam;
0.75 - 1 m	; Sandy clay loam;
1 - 1.1 m	;

Morphological Notes

N.P. on less weathered quartzite:

Observation Notes

33-100CM HIGHLY DECOMPOSED QUARTZITE SOMEWHAT ORGANIC STAINED: WEATHERING INCREASED TOWARD BASE:

Site Notes

MT LOFTY

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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 - 0.09	5.5H	0.007C	1.8K	1.1	0.15	0.23	6.7D			
0.09 - 0.2	5H	0.007C								
0.2 - 0.33	4.9H	0.008C	0.3K	0.3	0.1	0.24	6.7D			
0.33 - 0.75	5.3H	0.007C								
0.75 - 1	5.2H	0.005C								
1 - 1.1										

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 - 0.09				0.005F	0.099B	0.056B			63C	24	6	5
0.09 - 0.2												
0.2 - 0.33				0.004F	0.027B	0.12B			6C	19	8	10
0.33 - 0.75												
0.75 - 1				0.003F		0.15B						
1 - 1.1												

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 - 0.09									
0.09 - 0.2									
0.2 - 0.33									
0.33 - 0.75									
0.75 - 1									
1 - 1.1									

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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_H	Hydrogen Cation - 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
17A_NR	Total element - K(%) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded