Project Name: WQA
Project Code: WQA **Site ID:** B614 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/09/69
Map Ref.: Sheet No. : 7147
Northing/Long.: 141.35
Easting/Lat.: -25.1875
Locality:
Elevation: 97 metres
Rainfall: 225
Runoff: Rapid
Drainage: Rapidly drained

Geology

ExposureType: Auger boring
Geol. Ref.: Qa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Mesonatric Grey Sodosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dy4.13
Great Soil Group: Solodic soil

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Tall Strata - Shrub, , Sparse. *Species includes - Acacia species, Hakea species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Light red (2.5YR6/6-Dry); ; Fine sand; Massive grade of structure; Dry; Very weak consistence; Field pH 6.5 (pH meter); Gradual change to -
A1	0.1 - 0.2 m	Red (2.5YR4/8-Moist); Red (2.5YR5/8-Dry); ; Fine sand; Massive grade of structure; Dry; Very weak consistence; Field pH 6.8 (pH meter); Gradual change to -
A1	0.2 - 0.3 m	Red (2.5YR4/8-Moist); ; Clayey sand; Massive grade of structure; Dry; Weak consistence; Field pH 6.9 (pH meter); Gradual change to -
A1	0.3 - 0.6 m	Red (2.5YR4/8-Moist); ; Clayey sand; Massive grade of structure; Dry; Weak consistence; Field pH 7.2 (pH meter); Gradual change to -
A1	0.6 - 0.84 m	Red (2.5YR4/8-Moist); ; Clayey sand; Massive grade of structure; Dry; Weak consistence; Field pH 7.4 (pH meter); Clear change to -
A1	0.84 - 0.9 m	Red (2.5YR4/8-Moist); ; Clayey sand; Massive grade of structure; Dry; Weak consistence; Field pH 7.4 (pH meter); Gradual change to -
A3	0.9 - 1.2 m	Red (2.5YR4/8-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Field pH 7.3 (pH meter); Clear change to -
B1	1.2 - 1.5 m	Very pale brown (10YR7/4-Dry); ; Sandy medium clay; Weak grade of structure, Angular blocky; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Gradual change to -
B2	1.5 - 1.8 m	Very pale brown (10YR7/3-Moist); , 5YR58, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, Angular blocky; Moist; Weak consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter); Diffuse change to -
B2	1.8 - 2 m	Very pale brown (10YR7/3-Moist); , 5YR58, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, Angular blocky; Moist; Weak consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.9 (pH meter);

Morphological Notes

Observation Notes

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Site Notes

CURRAWILLA

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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	6.5H	0.013B								
0.1 - 0.2	6.8H	0.012B								
0.2 - 0.3	6.9H	0.01B								
0.3 - 0.6	7.2H	0.007B								
0.6 - 0.84	7.4H	0.015B								
0.84 - 0.9	7.4H	0.079B								
0.9 - 1.2	7.3H	0.2B	3.2K	2.4	0.71	0.83	0.8D			
1.2 - 1.5	8.3H	0.54B								
1.5 - 1.8	8.8H	0.54B								
1.8 - 2	8.9H	0.69B	7.6K	9.9	1.5	6.3	0D			

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		0.16A	14B	0.009F	0.015B	0.19B			47C	46	1	7
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.6												
0.6 - 0.84												
0.84 - 0.9												
0.9 - 1.2	0.03C	0.08A	2B	0.011F	0.011B	0.39B			49C	33	1	18
1.2 - 1.5	0.9C											
1.5 - 1.8	2.83C											
1.8 - 2	1.48C	0.04A	4B	0.013F	0.008B	0.7B			15C	42	16	24

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 - 0.2									
0.2 - 0.3									
0.3 - 0.6									
0.6 - 0.84									
0.84 - 0.9									
0.9 - 1.2									
1.2 - 1.5									
1.5 - 1.8									
1.8 - 2									

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - Not recorded
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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction