WQA Project Name:

Project Code: WQA Site ID: B615 Observation ID: 1

Agency Name: **CSIRO** Division of Soils (QLD)

Site Information

Locality: G.D. Hubble

Desc. By: Date Desc.: Elevation: 01/09/69 97 metres Map Ref.: Sheet No.: 7147 1:100000 Rainfall: 225 Northing/Long.: 141.35 Runoff: No Data Easting/Lat.: -25.1875 Drainage: No Data

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data Auger boring

Geol. Ref.: **Substrate Material:** Auger boring, 0.2 m deep, Unconsolidated Qa

material (unidentified)

Land Form

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

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Uf6.33 Haplic Eutrophic Yellow Kandosol **Principal Profile Form: ASC Confidence: Great Soil Group:** Solonchak

All necessary analytical data are available.

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

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Brown (7.5YR5/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; Dry; Loose consistence; 0-2%, Quartz, coarse fragments; Field pH 7.8 (pH meter); Gradual change to -
A12	0.1 - 0.2 m	Reddish brown (5YR5/4-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.9 (pH meter); Gradual
С	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam (Heavy); Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.9 (pH meter); Gradual change to -
	0.3 - 0.45 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam (Heavy); Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.7 (pH meter); Gradual change to -
	0.45 - 0.6 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Other pans; Field pH 7.5 (pH meter); Gradual change to -
	0.6 - 0.9 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Other pans; Field pH 7.6 (pH meter); Gradual change to -
	0.9 - 1.2 m	Yellowish brown (10YR5/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Other pans; Field pH 7.6 (pH meter); Gradual change to -
	1.2 - 1.5 m	Pale yellow (2.5Y8/4-Dry); ; Clayey sand (Heavy); Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Manganiferous. Medium (2 -6 mm), Nodules: Very few (0 - 2 %), Calcareous: Other pans:

Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, , ; Other pans;

Field pH 8.2 (pH meter); Gradual change to -

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> Very pale brown (10YR7/4-Dry); ; Clayey sand (Heavy); Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Few (2 - 10 %), 1.5 - 1.8 m

Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, , ; Other pans;

Field pH 8.4 (pH meter); Gradual change to -

Very pale brown (10YR7/4-Dry); ; Clayey sand; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, , ; Other pans; 1.8 - 2 m

Field pH 8.3 (pH meter);

Morphological Notes

Observation Notes

CLAYPAN: NO VEGETATION AT SITE.

Site Notes

CURRAWILLA

Project Name: Project Code: Agency Name: WQA

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Laboratory Test Results:

Depth	pН	1:5 EC		hangeable	Cations K	Na		hangeable	CEC	E	CEC	E	SP
m		dS/m	Ca	Mg	N.	Cmol (+)/kg		Acidity				9,	6
0 - 0.1	7.8H	0.36B	12.9K	6	3	8.8		2.4D					
0.1 - 0.2	7.9H	1.1B	7.014	7.0	4.0			0.445					
0.2 - 0.3	7.9H	1.3B	7.8K	7.2	1.2	7.1		0.14D					
0.3 - 0.45	7.7H	1.6B											
0.45 - 0.6	7.5H	1.6B											
0.6 - 0.9	7.6H 7.6H	1.4B	0.61/	7.6	4.0	0.0		0D					
0.9 - 1.2 1.2 - 1.5	7.6H 8.2H	1.6B 1.6B	8.6K	7.0	1.2	9.9		UD					
1.2 - 1.5 1.5 - 1.8	8.4H	1.6B											
1.8 - 1.6	8.3H	1.4B 1.09B											
1.0 - 2	0.3П	1.096											
Depth	CaCO3	Organic	Avail.	Total	Total	To	otal	Bulk	Pa	rticle S	Size	Analysis	
		С	P	Р	N		K	Density	G۷	CS	FS	Silt (Clay
m	%	%	mg/kg	%	%	,	%	Mg/m3			%		
0 - 0.1	0.030	0.18A	108B	0.047F	0.03	85B	1.5B			10C	26	30	32
0.1 - 0.2	0.090			0.0	0.00							-	0_
0.2 - 0.3		0.03A	26B		0.0	1B				7C	58	17	17
0.3 - 0.45			-							_			
0.45 - 0.6													
0.6 - 0.9													
0.9 - 1.2	0.130	0.02A	7B	0.017F	0.00)8B (0.77B			42C	42	9	7
1.2 - 1.5	2.1C												
1.5 - 1.8	4.5C												
1.8 - 2	2.4C	0.04A	5B	0.012F	0.00)8B (0.53B			46C	42	6	6
Depth COLE Gravimetric/Volumetric Water Contents K sat K un													
Depth	COLE	Sat.		0.1 Bar				Bar	n Sat		K unsat		
m		Sat.	v.və bar		0.5 Bar - m3/m3		aı :	о Баг 15 (Ddf	mm/h	1	mm/h	

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8

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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 - meg per 100g of soil - Not recorded

15 NR K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - med per 100g of soil - Not recorded 15_NR_MG 15_NR_NA Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

17A_NR Total element - K(%) - Not recorded

Calcium Carbonate (CaCO3) - Not recorded 19B_NR

2_LOI Loss on Ignition (%)

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4_NR

Water soluble Chloride - Cl(%) - Not recordede 5_NR

6A1 Organic carbon - Walkley and Black Total nitrogen (%) - Not recorded 7 NR Total element - P(%) - Not recorded 9A_NR

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

P10_NR_C Clay (%) - Not recorded

Coarse sand (%) - Not recorded P10_NR_CS P10_NR_FS Fine sand (%) - Not recorded P10_NR_Z Silt (%) - Not recorded XRD_C_II XRD_C_Ka Illite - X-Ray Diffraction Kaolin - X-Ray Diffraction

XRD_C_Mm XRD_C_Qz Montmorillonite - X-Ray Diffraction

Quartz - X-Ray Diffraction