**Project Name:** RR

**B566** Observation ID: 1 **Project Code:** RR Site ID:

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

**Site Information** 

Desc. By: G.D. Hubble Locality:

Date Desc.: Elevation: 22/10/66 3 metres Sheet No.: 9348 1:100000 Map Ref.: Rainfall: 1105 Northing/Long.: 152.3333333333333 Runoff: Very slow

Easting/Lat.: -24.7666666666667 Very poorly drained Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Geol. Ref.: Substrate Material: Undisturbed soil core, 1 m. Qа

deep, Unconsolidated material

**Land Form** 

Rel/Slope Class: Level plain <9m <1% Pattern Type: Plain Morph. Type: Flat Relief: 2 metres Elem. Type: Slope Category: Plain Level Aspect: 0 % 0 degrees Slope:

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification: Mapping Unit: N/A Eutrophic Dermosolic Redoxic Hydrosol **Principal Profile Form:** Gn3.41 **ASC Confidence: Great Soil Group:** Humic gley

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Tall Strata - Sod grass, 0.26-0.5m, Closed or dense. \*Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology 0 - 0.05 m Very dark greyish brown (10YR3/2-Moist); Clay loam; Strong grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; Field pH 5.8 (pH meter); Many, fine (1-2mm) roots; Abrupt change to -B2 0.05 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 5YR33, 20-50% , 0-5mm, Distinct; , 7.5YR58, 20-50% , 0-5mm, Distinct; Light clay; Strong grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular blocky; Moist; Firm consistence; Field pH 5.6 (pH meter); Many, fine (1-2mm) roots; B2 Very dark greyish brown (10YR3/2-Moist); , 5YR33, 20-50% , 0-5mm, Distinct; , 7.5YR58, 20-50%  $0.1 - 0.2 \, \text{m}$ , 0-5mm, Distinct; Light clay; Strong grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular blocky; Moist; Firm consistence; Field pH 5.6 (pH meter); Common, fine (1-2mm) roots; 0.2 - 0.27 m Very dark greyish brown (10YR3/2-Moist); , 5YR33, 20-50% , 0-5mm, Distinct; , 7.5YR58, 20-50% B2 , 0-5mm, Distinct; Light clay (Heavy); Strong grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular blocky; Moist; Firm consistence; Field pH 5.3 (pH meter); Common, fine (1-2mm) roots; Diffuse change to -B2 0.27 - 0.3 m Very dark greyish brown (10YR3/2-Moist); , 7.5YR58, 20-50% , 0-5mm, Distinct; , 5YR33, 20-50% , 0-5mm, Distinct; Light medium clay; Strong grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Ferromanganiferous, , Soft segregations; Field pH 5.2 (pH meter); Few, fine (1-2mm) roots; Grey (2.5Y5/1-Moist); , 10YR66, 20-50% , 0-5mm, Prominent; , 10R46, 20-50% , 0-5mm, B2g 0.3 - 0.43 m Prominent; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular

blocky; Moist; Moderately plastic; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Field pH

5.1 (pH meter);

B2g 0.43 - 0.61 m Grey (2.5Y5/1-Moist); , 10YR66, 20-50% , 5-15mm, Prominent; , 10R46, 20-50% , 5-15mm,

Prominent; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular blocky; Moist; Moderately plastic; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Field pH

4.8 (pH meter);

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B2g 0.61 - 0.66 m Grey (2.5Y5/1-Moist); , 10YR66, 20-50% , 5-15mm, Prominent; , 10R46, 20-50% , 5-15mm,

Prominent; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular blocky; Moist; Moderately plastic; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Field pH

4.8 (pH meter);

B2g 0.66 - 0.84 m Grey (2.5Y5/1-Moist); , 10YR66, 20-50% , 5-15mm, Prominent; , 10R46, 20-50% , 5-15mm,

Prominent; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular blocky; Moist; Moderately plastic; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Field pH

4.9 (pH meter); Diffuse change to -

B3g 0.84 - 0.92 m (N4/0-Moist); , 10YR66, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Light medium

clay; Weak grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular blocky; Moist;

Moderately plastic; Field pH 5.2 (pH meter);

## **Morphological Notes**

## **Observation Notes**

0-5CM POROUS GRANULAR STRUCTURE: PARENT MATERIAL ESTURINE - MARINE SEDIMENTS:

#### **Site Notes**

**BUNDABERG** 

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Project Code: RR Site ID: B566
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# <u>Laboratory Test Results:</u>

Depth	рН	1:5 EC		nangeable			hangeable	e CEC	ı	ECEC	E	SP
m		dS/m	Ca I	Иg	K	Na Cmol (+)/kg	Acidity g				ç	%
0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.27 0.27 - 0.3	5.8H 5.6H 5.6H 5.3H 5.2H	0.041E 0.029E 0.035E 0.05B 0.059E	3 4K 3 2.6K	8.6 8.6 6.8	3.4 2.6 1.8	1.2 1.7 1.9	16.2D 16.1D 16.2D					
0.3 - 0.43 0.43 - 0.61 0.61 - 0.66 0.66 - 0.84 0.84 - 0.92	5.1H 4.8H 4.8H 4.9H 5.2H	0.086E 0.128E 0.128E 0.136E 0.122E	3 1.7K 3 3	7.7	1	3.7	9.1D					
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		rticle CS	FS	Analysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		7.4E	200C 54B	0.118F		1.36B	0.74		2C	21	29	36
0.05 - 0.1		4.3E	51C	0.061F		1.44B	1.20		1C	14	34	46
0.1 - 0.2		2.8E	30B 15C 12B	0.035F		1.43B			0C	9	34	54
0.2 - 0.27 0.27 - 0.3 0.3 - 0.43 0.43 - 0.61 0.61 - 0.66 0.66 - 0.84 0.84 - 0.92		0.62E		0.061F		1.42B	1.40		5C	22	24	46
Depth	COLE		Grav	imetric/Vol	umetric W	/ater Conten	ıts		K sa	ıt	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar J - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/	h	mm/h	
0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.27 0.27 - 0.3				0.35C 0.43C				0.24C 0.32C				
0.27 - 0.3 0.3 - 0.43 0.43 - 0.61 0.61 - 0.66 0.66 - 0.84 0.84 - 0.92				0.46C				0.34C				

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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
15\_NR\_MG
15\_NR\_NA
Exch. basic cations (K++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

17A\_NR Total element - K(%) - 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

6Z Organic carbon (%) - Not recorded 9\_NR Available P (mg/kg) - 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\_C
P10\_NR\_CS
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
P10\_NR\_FS
P10\_NR\_Z
P3A\_NR
Clay (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
Bulk density - Not recorded

P3B\_VL\_01 0.1 BAR Moisture m3/m3 - Volumetric using suction plate P3B\_VL\_15 15 BAR Moisture m3/m3 - Volumetric using pressure plate