

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T103 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	G.G. Murtha	<b>Locality:</b>	Adjacent to Yarrowmere airstrip:16M north of mid edge of CSIRO plots:
<b>Date Desc.:</b>	03/04/69	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8055 1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	145.85	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-21.4666666666667	<b>Drainage:</b>	No Data

#### Geology

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Auger boring, Unconsolidated material (unidentified)

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Basic Petroferric Orthic Tenosol		<b>Principal Profile Form:</b>	Gn2.24
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow earth
All necessary analytical data are available.			

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Heteropogon contortus  
 Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus papuana, Eucalyptus melanophloia, Eucalyptus tessellaris

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); Grey (10YR5/1-Dry); ; Loamy sand; Massive grade of structure; Dry; Weak consistence; Few, fine (1-2mm) roots; Clear change to -
A2	0.1 - 0.2 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand; Massive grade of structure; Dry; Weak consistence; Few, fine (1-2mm) roots; Diffuse change to -
A2	0.2 - 0.3 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand; Massive grade of structure; Dry; Weak consistence;
A2	0.3 - 0.4 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand (Heavy); Massive grade of structure; Dry; Weak consistence; Diffuse change to -
B1	0.4 - 0.6 m	Brownish yellow (10YR6/5-Moist); Light yellowish brown (10YR6/4-Dry); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Diffuse change to -
B21	0.6 - 0.9 m	Yellow (10YR7/6-Moist); Yellow (10YR7/5-Dry); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Firm consistence;
B22	0.9 - 1.2 m	Yellow (10YR7/6-Moist); Yellow (10YR7/5-Dry); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Diffuse change to -
B23	1.2 - 1.5 m	Yellow (10YR8/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Few (2 - 10 %), Other, Medium (2 -6 mm), Concretions;
B23	1.5 - 1.8 m	Yellow (10YR8/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Few (2 - 10 %), Other, Medium (2 -6 mm), Concretions; Gradual change to -
B24	1.8 - 2.1 m	Very pale brown (10YR7/3-Moist); White (10YR8/1-Dry); , 5YR48, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Sandy clay loam; Massive grade of structure; Dry; Strong consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Weakly cemented, Continuous, Massive;

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B24      2.1 - 2.4 m      Very pale brown (10YR7/3-Moist); White (10YR8/1-Dry); , 5YR48, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Sandy clay loam; Massive grade of structure; Dry; Strong consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Strongly cemented, Continuous, Massive;

**Morphological Notes**

**Observation Notes**

120-210CM INCREASING HARDENED RED MOTTLED SEGREGATIONS:

**Site Notes**

YARROWMERE

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	6.1A	0.008A								
0.1 - 0.2	6.1A	0.008A								
0.2 - 0.3	6A	0.008A								
0.3 - 0.4	6A	0.008A								
0.4 - 0.6	6.2A	0.008A								
0.6 - 0.9	6.4A	0.008A								
0.9 - 1.2	6.5A	0.008A								
1.2 - 1.5	6.6A	0.008A								
1.5 - 1.8	6.7A	0.008A								
1.8 - 2.1	6.8A	0.011A								
2.1 - 2.4	6.8A	0.011A								

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction