

Project Name: Regional
Project Code: REG **Site ID:** T19 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Site north boundary fence of Woodstock Paddock:sink hole 15-22CM:
Date Desc.:	08/09/64	Elevation:	No Data
Map Ref.:	Sheet No. : 8258 1:100000	Rainfall:	0
Northing/Long.:	146.825	Runoff:	Slow
Easting/Lat.:	-19.6083333333333	Drainage:	No Data
<u>Geology</u>			
ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Non-porous, dense, Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Sodic Mesotrophic Brown Kandosol	Principal Profile Form:	Gn2.64
ASC Confidence:	Great Soil Group:	Yellow earth
All necessary analytical data are available.		

Site Disturbance:

Vegetation: Low Strata - Tussock grass, <0.25m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus alba, Eucalyptus papuana, Melaleuca

species

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); Greyish brown (10YR5/2-Dry); , 0-0% ; , 0-0% ; Loam; Massive grade of structure; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; Gradual change to -
A2	0.08 - 0.2 m	Yellowish brown (10YR5/6-Moist); Brownish yellow (10YR6/5-Dry); , 5YR58, 2-10% ; , 2-10% ; Clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Clear change to -
B	0.2 - 0.36 m	Yellowish brown (10YR5/7-Moist); Brownish yellow (10YR6/6-Dry); , 5YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
B	0.36 - 0.53 m	Yellowish brown (10YR5/7-Moist); Brownish yellow (10YR6/6-Dry); , 5YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Clear change to -
D1	0.53 - 0.66 m	Yellowish brown (10YR5/7-Moist); , 10YR63, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Gradual change to -
D2	0.66 - 0.91 m	Yellowish brown (10YR5/5-Moist); , 10YR52, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Dry; Very strong consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Gradual change to -
D3	0.91 - 1.32 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; , 0-0% ; Heavy clay; Strong grade of structure, 5-10 mm, Polyhedral; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Gradual change to -

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D 1.32 - 1.45 m Yellowish brown (10YR5/4-Moist); , 0-0% ; , 0-0% ; Coarse sandy medium clay; 20-50%, coarse
gravelly, 20-60mm, Gravel, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft
segregations;

Morphological Notes

Observation Notes

Site Notes

LANDSDOWN

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Laboratory Test Results:

Depth m	pH	1:5 EC	Exchangeable Cations			Na Cmol (+)/kg	Exchangeable	CEC	ECEC	ESP
		dS/m	Ca	Mg	K		Acidity			
0 - 0.08	6A	0.059A	2.2E	1.6	0.44	0.1	5.1F	9.4C	9.4F	1.06
0.08 - 0.2	5.6A	<0.03A								
0.2 - 0.36	5.8A	0.029A								
0.36 - 0.53	6.2A	0.029A	2.6E	2.5	0.08	0.06	5.1F	10.9C	10.3F	0.55
0.53 - 0.66	6.2A	0.059A	3.8E	4.1	0.1	1.6	5.5F	15.1C	15.1F	10.60
0.66 - 0.91	8.2A	0.357A	5.6E	5.2	0.1	1.9				
0.91 - 1.32	9A	0.595A								
1.32 - 1.45	9.2A	0.535A								

[illegible][illegible]

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Laboratory Analyses Completed for this profile

15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
19A1	Carbonates - rapid titration
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
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 H ₂ SO ₄ (BSES)
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance