

Project Name: Regional
Project Code: REG **Site ID:** T18 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Site in sewerage pit at Ritson's house:
Date Desc.:	16/07/64	Elevation:	No Data
Map Ref.:	Sheet No. : 8258 1:100000	Rainfall:	0
Northing/Long.:	146.833333333333	Runoff:	Slow
Easting/Lat.:	-19.6583333333333	Drainage:	No Data

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	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
Bleached-Sodic Calcic Brown Chromosol		Principal Profile Form:	Dy3.43
ASC Confidence:		Great Soil Group:	Solodic soil

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.13 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; , 0-0% ; Loam; Massive grade of structure; Moderately moist; Weak consistence;
A2	0.13 - 0.38 m	Brown (10YR5/3-Moist); Very pale brown (10YR7/3-Dry); , 0-0% ; , 0-0% ; Sandy loam; Massive grade of structure; Dry; Very strong consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules; Gradual change to -
B21	0.38 - 0.61 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; , 0-0% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Very coarse, (20 - 50) mm crack; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules; Clear change to -
B22	0.61 - 0.91 m	Yellowish brown (10YR5/4-Moist); , 7.5YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 100-200 mm, Prismatic; Very coarse, (20 - 50) mm crack; Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Concretions; Diffuse change to -
B23	0.91 - 1.22 m	Brown (10YR4/3-Moist); , 5YR44, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Very coarse, (20 - 50) mm crack; Moderately moist; Very strong consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Concretions; Diffuse change to -
B23	1.22 - 1.52 m	Brown (10YR4/3-Moist); , 5YR44, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Very coarse, (20 - 50) mm crack; Moderately moist; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules; Few (2 - 10 %), Calcareous, Extremely coarse (> 60 mm), Concretions;
	1.52 - 2.03 m	Reddish brown (5YR4/4-Moist); , 10YR42, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Sandy medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Very strong consistence; 0-2%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Extremely coarse (> 60 mm), Concretions; Diffuse change to -

Morphological Notes

Observation Notes

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Site Notes
LANDSDOWN

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity			%
						Cmol	(+)/kg			
0 - 0.13	5.9A	0.089A	5.4E	1.8	0.6	0.15	4F	12C	12F	1.25
0.13 - 0.38	6.2A	0.059A								
0.38 - 0.61	6.5A	0.059A	6.6E	3.6	0.3	0.1	3.8F	14.4C	14.4F	0.69
0.61 - 0.91	6.7A	0.029A								
0.91 - 1.22	7.3A	0.089A								
1.22 - 1.52	8.2A	0.059A	7.4E	4.7	0.27	1.1	0.6F		14.1F	
1.52 - 2.03	8.6A	0.148A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.13		1.2D	8B	0.008A	0.1A				15D	54	18	14
0.13 - 0.38			4B									
0.38 - 0.61									19D	35	11	34
0.61 - 0.91												
0.91 - 1.22												
1.22 - 1.52	0.7A			0.005A								
1.52 - 2.03				0.006A								

[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_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