

Project Name: Regional
Project Code: REG **Site ID:** T184 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.G. Murtha	Locality: 22M past the railway line on road to Bluewater
Date Desc.: 20/11/70	Elevation: 15 metres
Map Ref.: Sheet No. : 8259 1:100000	Rainfall: 1140
Northing/Long.: 146.552777777778	Runoff: Slow
Easting/Lat.: -19.173055555556	Drainage: Poorly drained

Geology

ExposureType: Undisturbed soil core	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: Qa	Substrate Material: No Data

Land Form

Rel/Slope Class: Level plain <9m <1%	Pattern Type: Alluvial plain
Morph. Type: Flat	Relief: 0 metres
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
Manganic Hypernatric Brown Sodosol	Principal Profile Form: Dy3.43
ASC Confidence:	Great Soil Group: Solodic soil

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
 Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus alba, Eucalyptus drepanophylla, Eucalyptus grandifolia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1/A2	0 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Fine sandy loam; Massive grade of structure; Moist; Very weak consistence;
A2	0.1 - 0.2 m	Light grey (10YR7/2-Moist); , 10YR54, 2-10% ; , 2-10% ; Fine sandy loam; Massive grade of structure; Moist; Very weak consistence; Gradual change to -
A3	0.2 - 0.3 m	Very pale brown (10YR7/3-Moist); , 10YR56; Silty clay loam; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
B2	0.3 - 0.45 m	Yellowish brown (10YR5/4-Moist); , 10YR52, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, Quartz, coarse fragments; Many (20 - 50 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B2	0.45 - 0.6 m	Yellowish brown (10YR5/4-Moist); , 10YR68, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
	0.6 - 0.9 m	Greyish brown (10YR5/2-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Very firm consistence; 0-2%, Quartz, coarse fragments; Many (20 - 50 %), Manganiferous, , Soft segregations;
BC	0.9 - 1.2 m	Greyish brown (10YR5/2-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, Quartz, coarse fragments; Many (20 - 50 %), Manganiferous, , Soft segregations;
BC	1.2 - 1.5 m	Greyish brown (10YR5/2-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy medium clay (Heavy); Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;

Project Name: Regional
Project Code: REG **Site ID:** T184 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

D 1.6 - 1.8 m Grey (10YR5/1-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Many (20 - 50 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;

Morphological Notes

D Grades to pale B SC/CS at 260CM and coarse WW GV at 270CM:

Observation Notes

DARKER A1 OF 1.5CM:

Site Notes

BLUEWATER

Project Name: Regional
Project Code: REG Site ID: T184 Observation ID: 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	6A	0.017A							
0.1 - 0.2	6.2A	0.02A							
0.2 - 0.3	6.3A	0.062A							
0.3 - 0.45	6.2A	0.36A	0.6B	1.7	0.11	5.1		9.4C	54.26
0.45 - 0.6	6.5A	0.476A							
0.6 - 0.9	6.9A	0.455A							
0.9 - 1.2	7.3A	0.464A							
1.2 - 1.5	7.8A	0.413A							
1.6 - 1.8	8.1A	0.431A	0.9B	2.3	0.16	7.6		7.2C	105.56

[illegible][illegible]

Project Name: Regional
Project Code: REG **Site ID:** T184 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
2A1	Air-dry moisture content
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
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)