

Project Name: Regional
Project Code: REG **Site ID:** T212 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	8.2KM on Kurrimine Road from highway:
Date Desc.:	13/11/73	Elevation:	10 metres
Map Ref.:	Sheet No. : 8162 1:100000	Rainfall:	0
Northing/Long.:	146.1	Runoff:	No runoff
Easting/Lat.:	-17.7666666666667	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QR	Substrate Material:	Soil pit, 1.5 m deep,Sand

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melacic Humic/Sesquic Semiaquic Podosol		Principal Profile Form:	Uc3.31
ASC Confidence:		Great Soil Group:	Podzol

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sedge, 0.51-1m, Very sparse. *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia species
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Light grey (10YR7/1-Moist); , 10YR21, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sand; Single grain grade of structure; Moist; Very weak consistence; Clear change to -
A12	0.1 - 0.2 m	Black (10YR2/1-Moist); ; Loamy sand; Single grain grade of structure; Moist; Very weak consistence;
A12	0.2 - 0.3 m	Black (10YR2/1-Moist); ; Loamy sand; Single grain grade of structure; Moist; Very weak consistence; Diffuse change to -
A2	0.3 - 0.45 m	Dark grey (10YR4/1-Moist); , 10YR71, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Coarse sand; Single grain grade of structure; Moist; Very weak consistence;
A2	0.45 - 0.6 m	Dark grey (10YR4/1-Moist); , 10YR71, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Coarse sand; Single grain grade of structure; Moist; Very weak consistence; Abrupt change to -
B2h	0.6 - 0.76 m	Strong brown (7.5YR5/6-Moist); , 10YR54, 10-20% , 5-15mm, Distinct; , 5YR32, 10-20% , 5-15mm, Distinct; Coarse sand; Single grain grade of structure; Moist; Strong consistence;
B2s	0.76 - 0.9 m	Yellowish brown (10YR5/4-Moist); , 7.5YR56, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Coarse sand; Single grain grade of structure; Moist; Very weak consistence; Diffuse change to -
B3	0.9 - 1.2 m	Light yellowish brown (2.5Y6/4-Moist); , 2.5Y82, 2-10% , 15-30mm, Faint; , 2-10% , 15-30mm, Faint; Coarse sand; Single grain grade of structure; Moist; Very weak consistence;
C	1.2 - 1.5 m	Greyish brown (2.5Y5/2-Moist); , 2.5Y64, 2-10% , 15-30mm, Faint; , 2-10% , 15-30mm, Faint; Coarse sand; Single grain grade of structure; Moist; Very weak consistence;

Morphological Notes

Observation Notes

60-76CM ONLY THE DARKER MOTTLES ARE STRONGLY CEMENTED:DARK MATERIAL IN A11 IS WORM CASTS

Site Notes

KURRIMINE

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
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
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
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)
9H1	Phosphate retention
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
P10_GRAV	Gravel (%)