

Project Name: Regional
Project Code: REG **Site ID:** T277 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	On J.T.T.R.E.
Date Desc.:	01/11/79	Elevation:	5 metres
Map Ref.:	Sheet No. : 8162 1:100000	Rainfall:	3000
Northing/Long.:	146.133333333333	Runoff:	No runoff
Easting/Lat.:	-17.666666666667	Drainage:	Rapidly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Beach ridge plain
Morph. Type:	Crest	Relief:	2 metres
Elem. Type:	Beach ridge	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Fragic Humosequic Semiaquic Podosol		Principal Profile Form:	Uc5.11
ASC Confidence:		Great Soil Group:	Podzol

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Mid Strata - Shrub, 1.01-3m, Sparse. *Species includes - None recorded

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 brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Many, fine (1-2mm) roots;
A11	0.1 - 0.2 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Many, fine (1-2mm) roots; Gradual change to -
A12	0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Common, fine (1-2mm) roots; Gradual, Irregular change to -
B2	0.3 - 0.45 m	Black (5YR2/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Pumice, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
B2	0.45 - 0.6 m	Dark reddish brown (5YR3/3-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Diffuse change to -
BC	0.6 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 7.5YR44, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sand; Single grain grade of structure; Dry; Loose consistence; Diffuse change to -
C	0.9 - 1.2 m	Very pale brown (10YR7/4-Moist); , 10YR58, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sand; Single grain grade of structure; Dry; Loose consistence;

Morphological Notes

Observation Notes

0-20CM MANY BLACK WORM CASTS 5MM X 10MM:

Site Notes

COWLEY BEACH

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[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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 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 (%)