Project Name: **Regional**
Project Code: **REG** **Site ID:** **T276** **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:**	3 metres
Map Ref.:	Sheet No. : 8162 1:100000	**Rainfall:**	3000
Northing/Long.:	146.1058333	**Runoff:**	No runoff
Easting/Lat.:	-17.6666666666667	**Drainage:**	Very poorly 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:	Open depression (vale)	**Relief:**	1 metres
Elem. Type:	Swale	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Peaty Humosequic Semiaquic Podosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Uc5.11
Great Soil Group: Peaty podzol

Site Disturbance:

Vegetation: Low Strata - Sedge, 0.51-1m, Sparse. *Species includes - None recorded
Tall Strata - Tree, 1.01-3m, Very sparse. *Species includes - Panicum species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Black (10YR2/1-Moist); ; Loam (Sapric); Massive grade of structure; Wet; Weak consistence; Many, fine (1-2mm) roots;
A1	0.1 - 0.2 m	Black (10YR2/1-Moist); ; Loam (Sapric); Massive grade of structure; Wet; Weak consistence; Many, fine (1-2mm) roots; Gradual change to -
A3	0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Wet; Weak consistence; Common, fine (1-2mm) roots; Gradual change to -
B2	0.3 - 0.6 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Wet; Firm consistence; Common, fine (1-2mm) roots;
B3	0.6 - 0.9 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Wet; Weak consistence; Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

COWLEY BEACH

Project Name: Regional
Project Code: REG **Site ID:** T276 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.1A	0.28A	0.91H	0.78	1.48	0.31	1.3F	2.6A	4.8F	11.92
0.1 - 0.2	4.4A	0.086A					3.6F			
0.2 - 0.3	4.7A	0.037A	<0.01H	<0.01	<0.01	0.02	0.92F	1.5A	1F	1.33
0.3 - 0.6	4.4A	0.059A	<0.01H	<0.01	<0.01	0.06	0.92F	0.6A	1F	10.00
0.6 - 0.9	3.6A	0.235A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		23D	40B	0.03A	0.95A	0.78A		0	36A	17	26	21
0.1 - 0.2		9.89D	15B		0.26A			<2	78A	9	7	6
0.2 - 0.3		2.6D	12B		0.05A			<2	88A	6	2	5
0.3 - 0.6		2.22D	3B		0.03A			<2	91A	5	3	1
0.6 - 0.9				0.001A		1.16A		<2	97A	2	1	1

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.6										
0.6 - 0.9										

Project Name: **Regional**
Project Code: **REG** **Site ID:** **T276** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

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 (Ca2+,Mg2+,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
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 H2SO4 (BSES)
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 (%)