Project Name: Regional

Project Code: REG Site ID: T274 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.:
 30/10/79
 Elevation:
 10 metres

 Map Ref.:
 Sheet No.: 8162
 1:100000
 Rainfall:
 3000

 Northing/Long.:
 146.116666666667
 Runoff:
 No runoff

Easting/Lat.: -17.6666666666667 Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:No DataPattern Type:Beach ridge plainMorph. Type:CrestRelief:1 metresElem. Type:Beach ridgeSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AParapanic Humic Semiaquic PodosolPrincipal Profile Form:Uc2.33ASC Confidence:Great Soil Group:Podzol

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

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

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Melaleuca viridiflora, Acacia species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark grey (10YR4/1-Moist); Grey (10YR6/1-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; Many, medium (2-5mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Grey (10YR5/1-Moist); Grey (10YR6/1-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; Few, fine (1-2mm) roots; Gradual change to -
A2	0.2 - 0.3 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence;
A2	0.3 - 0.4 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; Organic pan, Moderately cemented, Continuous, Massive; Clear, Irregular change to -
B2h	0.4 - 0.6 m	Black (10YR2/1-Moist); , 5YR22, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sand; Massive grade of structure; Dry; Very strong consistence; Gradual change to -
В3	0.6 - 0.9 m	Light yellowish brown (10YR6/4-Moist); , 5YR22, 10-20% , 5-15mm, Distinct; , 10YR62, 10-20% , 5-15mm, Distinct; Sand; Massive grade of structure; Dry; Firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Pumice, coarse fragments; Diffuse change to -
С	0.9 - 1.2 m	Very pale brown (10YR7/3-Moist); White (10YR8/2-Dry); ; Coarse sand; Single grain grade of structure; Dry; Loose consistence;

Morphological Notes

Observation Notes

60-90CM THE RED MOTTLES ARE CEMENTED: GREY MOTTES ARE NON WETTING

Site Notes

COWLEY BEACH

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Laboratory Test Results:

Depth	рН	1:5 EC			e Cations		Exchangeable	e CEC		ECEC		ESP
m		dS/m	Ca	Mg	К	Na Cmol (+	Acidity -)/kg					%
0 - 0.1	5.1A		0.16H	0.06	<0.01	<0.01	0.56F	1A		0.8F		
0.1 - 0.2	5.2A	0.012A										
0.2 - 0.3	5.4A		<0.01H	<0.01	<0.01	<0.01	0.4F	0.5/	4	0.4F		
0.3 - 0.4	5.7A	0.017A										
0.4 - 0.6	5.3A		<0.01H	<0.01	<0.01	<0.01	1.24F	1A		1.3F		
0.6 - 0.9	5.5A	0.021A										
0.9 - 1.2	5.7A	0.007A										
Depth	CaCO3	Organic	Avail.	Total	Tota	Tota	l Bulk	Pa	rticle	Size	Analysi	5
		С	Р	Р	N	K	Density	g GV	cs	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
			_									
0 - 0.1		0.62D	5B	0.001	-	0.4	4A	<2	95A		1	1
0.1 - 0.2		0.17D			_	01A		<2	92A	-	1	1
0.2 - 0.3		0.11D	2B		_	04A		<2	90A	7	2	1
0.3 - 0.4		0.08D			_	01A						
0.4 - 0.6		0.99D	5B		_	05A		<2	93A	3	1	3
0.6 - 0.9		0.42D			-)3A				_	_	
0.9 - 1.2				0.001	A	1.1	5A	12	96A	2	0	1
Depth	COLE									at	K unsa	t
m		Sat.	0.05 Bar	0.1 Bar g	0.5 Bar /g - m3/n	1 Bar 13	5 Bar	15 Bar	mm/	h'	mm/h	

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.6 0.6 - 0.9 0.9 - 1.2

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Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon 13C1_FE

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 Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 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

Effective CEC 15J1

17A1 Total potassium - X-ray fluorescence

2A1 Air-dry moisture content 3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method 7A2 Total nitrogen - semimicro Kjeldahl, automated colour

9A1

Total phosphorus - X-ray fluorescence Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) 9G_BSES

P10_CF_C Clay (%) - Coventry and Fett pipette method

P10_CF_CS P10_CF_FS P10_CF_Z Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)