Project Name: **Regional**
Project Code: **REG** **Site ID:** **T311** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By:	M.G. Cannon	**Locality:**	
Date Desc.:	27/11/81	**Elevation:**	5 metres
Map Ref.:	Sheet No. : 7965 1:100000	**Rainfall:**	0
Northing/Long.:	145.416666666667	**Runoff:**	No Data
Easting/Lat.:	-16.3333333333333	**Drainage:**	No Data

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	Qr	**Substrate Material:**	Auger boring, 1.6 m deep,Porous, 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):

Erosion:

Soil Classification

Australian Soil Classification:
Melanic Humic Semiaquic Podosol
ASC Confidence:
All necessary analytical data are available.

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

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence;
Ap	0.1 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; Clear change to -
B21h	0.3 - 0.5 m	Dark brown (7.5YR3/2-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; Clear change to -
B22s	0.5 - 0.6 m	Dark brown (7.5YR3/2-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Pumice, coarse fragments; Diffuse change to -
B3	0.6 - 0.9 m	Brown (7.5YR4/4-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; 0-2%, coarse gravelly, 20-60mm, rounded, Pumice, coarse fragments; Diffuse change to -
	0.9 - 1.2 m	Brown (7.5YR5/4-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Loose consistence;
	1.2 - 1.5 m	Brown (7.5YR5/4-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Loose consistence; Clear change to -
2A1b	1.5 - 1.6 m	Very dark greyish brown (10YR3/2-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; Clear change to -
C	1.6 - 1.9 m	Brownish yellow (10YR6/6-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence;

Morphological Notes

Observation Notes

Site Notes

WONGA BEACH

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.4A	0.017A	1.99H	0.47	0.05	0.04	0.3F	2.28A	2.9F	1.75
0.1 - 0.3	5.7A	0.011A								
0.3 - 0.5	5.7A	0.014A	1H	<0.01	0.05	0.05	0.3F	1.63A	1.4F	3.07
0.5 - 0.6	5.8A	0.011A								
0.6 - 0.9	5.6A	0.017A								
0.9 - 1.2	5.6A	0.005A								
1.2 - 1.5	5.6A	0.005A								
1.5 - 1.6	4.9A	0.127A								
1.6 - 1.9	5.7A	0.008A								

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		1.04D	10B	0.006A	0.06A	1.35A		<1	90A	6	2	3
0.1 - 0.3			22B									
0.3 - 0.5		0.04D	18B					<1	93A	5	1	2
0.5 - 0.6		0.03D	15B									
0.6 - 0.9				0.008A		1.66A		16	92A	6	1	2
0.9 - 1.2												
1.2 - 1.5								10	95A	4	1	1
1.5 - 1.6												
1.6 - 1.9								25	94A	4	1	1

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.3										
0.3 - 0.5										
0.5 - 0.6										
0.6 - 0.9										
0.9 - 1.2										
1.2 - 1.5										
1.5 - 1.6										
1.6 - 1.9										

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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/HClO4 Digest
12_HF_FE	Total element - Fe(%) - HF/HClO4 Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
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)
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 (%)