**Project Name:** Regional

**Project Code:** Site ID: T212 Observation ID: 1 **REG** 

**Agency Name: CSIRO Division of Soils (QLD)** 

**Site Information** 

Desc. By: Date Desc.: G.G. Murtha Locality: 8.2KM on Kurrimine Road from highway:

Elevation: 13/11/73 10 metres

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

Northing/Long.: Runoff: 146.1 No runoff

Easting/Lat.: -17.7666666666667 Drainage: Imperfectly drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** QŔ Soil pit, 1.5 m deep, Sand

**Land Form** 

Rel/Slope Class: Level plain <9m <1% Pattern Type: Beach ridge plain Morph. Type: Relief: 0 metres

Elem. Type: Beach ridge Slope Category: Level Aspect: No Data Slope: 0 %

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A Melacic Humic/Sesquic Semiaguic 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	$\label{light} \begin{tabular}{ll} Light grey (10YR7/1-Moist); \\ , 10YR21, 10-20\% \\ , 5-15mm, Distinct; \\ Sand; \\ Single grain grade of structure; \\ Moist; \\ Very weak consistence; \\ Clear change to - \\ \\ \end{tabular}$
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 -
В3	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;
С	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

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

Regional REG Site ID: T212 CSIRO Division of Soils (QLD) Observation ID: 1

Project Name: Project Code: Agency Name:

Laboratory Test Nesuris.													
Depth	рН	1:5 EC		•	e Cations			nangeable	CEC		ECEC	!	ESP
m		dS/m	Ca I	Mg	K	Na Cmo	/ I (+)/kg	Acidity					%
""		us/iii				Cilio	i (+ <i>)</i> /ng						70
0 - 0.1	4.5A	<0.05A	0.85H	0.78	0.04	0.08		1.9F	2.4	١	3.7F	3	3.33
0.1 - 0.2	4.3A	<0.05A											
0.2 - 0.3	4.6A	<0.05A	0.1H	0.33	< 0.01	0.04		2.7F	4.1	١.	3.2F	(	0.98
0.3 - 0.45	4.8A	<0.05A											
0.45 - 0.6	4.6A	<0.05A											
0.6 - 0.76	5.2A	<0.05A	0.04H	0.06	< 0.01	0.03		1.2F	0.84	١.	1.3F		3.75
0.76 - 0.9	5.3A	<0.05A	0.04H	< 0.01	<0.01	< 0.01							
0.9 - 1.2	5.2A	<0.05A											
1.2 - 1.5	5.2A	<0.05A	0.03H	< 0.01	0.02	< 0.01					0.1E		
Depth	CaCO3	Organic	Avail.	Total	Total	l To	otal	Bulk	Pa	rticle	Size	Analysis	3
•		Č	Р	Р	N		K	Density	G۷	cs	FS	Silt	Clay
m	%	%	mg/kg	%	%	•	%	Mg/m3			%		
0 - 0.1		3.11D	4B	0.004	۸ ٥.	13A	0.1A		<2	80A	17	4	2
0 - 0.1		3.11D 2.23D	4B 7B	0.004	_	-	0.1A 0.09A		<2 <2	67A	29	1 2	2
0.1 - 0.2		2.23D 1.29D	7Б 2В	0.003	_	06A	J.09A		<2 <2	68A	28	2	2 2
0.2 - 0.3		0.58D	20		_	02A			<2	64A	32	2	2
0.3 - 0.45		1.1D			-	06A			<2	04A	32	2	2
0.45 - 0.0		1.01D	17B	0.008	_		0.34A		<2	60A	26	3	10
0.76 - 0.9		0.18D	170	0.000	Λ 0.0	JJA (	J.54A		<2	66A	23	2	9
0.70 - 0.9		0.100							<b>\</b> 2	007	23	2	9
1.2 - 1.5													
1.2 1.0													
Depth COLE Gravimetric/Volumetric Water Contents K sat K													t
•		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Ba	ar (	5 Bar 15 I	3ar				
m				g	/g - m3/n	13				mm/	h	mm/h	

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.76 0.76 - 0.9 0.9 - 1.2 1.2 - 1.5

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## **Laboratory Analyses Completed for this profile**

10A1 Total sulfur - X-ray fluorescence

Total element - Cu(mg/kg) - HF/HClO4 Digest 12\_HF\_CU 12\_HF\_ZN 13C1\_FE Total element - Zn(mg/kg) - HF/HCIO4 Digest

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

Sum of Ex. cations + Ex. acidity - Not recorded 15\_NR

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

Effective CEC 15J1

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

Chloride - 1:5 soil/water extract, automated colour 5A2

6A1\_UC Organic carbon (%) - Uncorrected Walkley and Black method 7A2 Total nitrogen - semimicro Kjeldahl, automated colour

Total phosphorus - X-ray fluorescence 9A1

Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) 9G\_BSES

9H1 Phosphate retention

P10\_CF\_C Clay (%) - Coventry and Fett pipette method P10\_CF\_CS P10\_CF\_FS Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method P10\_CF\_Z Silt (%) - Coventry and Fett pipette method

P10\_GRAV Gravel (%)