

Project Name: Regional
Project Code: REG **Site ID:** T214 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Opposite El Arish Golf Club:
Date Desc.:	14/11/73	Elevation:	20 metres
Map Ref.:	Sheet No. : 8162 1:100000	Rainfall:	0
Northing/Long.:	146	Runoff:	No runoff
Easting/Lat.:	-17.8166666666667	Drainage:	Well drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Undisturbed soil core, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A
Acidic Dystrophic Brown Dermosol	Principal Profile Form: Gn3.71
ASC Confidence:	Great Soil Group: No suitable group
All necessary analytical data are available.	

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Brown (10YR4/3-Moist); ; Clay loam (Heavy); Moderate grade of structure, 5-10 mm, Cast; Rough-ped fabric; Moist; Weak consistence; Many, fine (1-2mm) roots; Gradual change to -
B1	0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Many, fine (1-2mm) roots;
B21	0.2 - 0.3 m	Yellowish brown (10YR5/6-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence;
B22	0.3 - 0.45 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence;
B22	0.45 - 0.6 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence; Diffuse change to -
BC	0.6 - 0.9 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence;
C	0.9 - 1.2 m	Yellowish brown (10YR5/6-Moist); , 10YR62, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence;
C	1.26 - 1.5 m	Light brownish grey (10YR6/2-Moist); , 10YR54, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Clear change to -
D	1.6 - 1.8 m	Grey (10YR5/1-Moist); , 10YR44, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium heavy clay; Weak grade of structure, 20-50 mm, Prismatic; 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence;

Morphological Notes

Observation Notes

Site Notes

EL ARISH

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP	
m		dS/m	Ca	Mg	K	Na	Acidity			
						Cmol	(+)/kg		%	
0 - 0.1	4.8A	<0.05A	0.4H	0.6	0.23	0.03	1.3F	3.5A	2.6F	0.86
0.1 - 0.2	4.8A	<0.05A	0.04H	0.2	0.08	0.01	1.1F	2.4A	1.4F	0.42
0.2 - 0.3	4.9A	<0.05A								
0.3 - 0.45	4.8A	<0.05A	0.02H	0.22	0.02	<0.01	1.1F	2.6A	1.4F	
0.45 - 0.6	4.8A	<0.05A								
0.6 - 0.9	4.8A	<0.05A	0.04H	0.12	0.04	<0.01	1.2F	2.6A	1.4F	
0.9 - 1.2	5A	<0.05A								
1.26 - 1.5	5A	<0.05A								
1.6 - 1.8	5A	<0.05A								

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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_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 salts
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
5A2	Chloride - 1:5 soil/water extract, automated colour
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)
MIN_EC	Exchange Capacity - Minerology
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 (%)
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gb	Gibbsite - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction