

Project Name: Regional
Project Code: REG **Site ID:** T213 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Silkwood Sports Reserve:1.6KM from highway:
Date Desc.:	14/11/73	Elevation:	20 metres
Map Ref.:	Sheet No. : 8162 1:100000	Rainfall:	0
Northing/Long.:	146.016666666667	Runoff:	No runoff
Easting/Lat.:	-17.733333333333	Drainage:	Well drained

Geology

ExposureType:	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:	0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melacic 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	Very dark greyish brown (10YR3/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence;
A1	0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Diffuse change to -
B11	0.2 - 0.3 m	Brown (10YR4/3-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Very weak consistence; Diffuse change to -
B12	0.3 - 0.45 m	Brown (10YR5/3-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; Diffuse change to -
B21	0.45 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Very firm consistence; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules;
B21	0.6 - 0.75 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Very firm consistence; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Diffuse change to -
B22	0.75 - 0.9 m	Strong brown (7.5YR5/6-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules;
B22	0.9 - 1.2 m	Strong brown (7.5YR5/6-Moist); ; 5YR56, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Many (20 - 50 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Diffuse change to -
	1.2 - 1.5 m	Yellowish red (5YR4/8-Moist); , 10YR56, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules;
	1.5 - 1.8 m	Yellowish brown (10YR5/6-Moist); , 5YR48, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence;

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1.8 - 2.1 m	Yellowish brown (10YR5/6-Moist); , 5YR48, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence;
2.1 - 2.5 m	Yellowish brown (10YR5/6-Moist); , 5YR48, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence;
2.5 - 3 m	Light grey (10YR7/1-Moist); , 5YR48, 20-50% , 5-15mm, Prominent; , 10YR56, 20-50% , 5-15mm, Prominent; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong consistence;
3 - 3.5 m	Light grey (2.5Y7/0-Moist); , 2.5YR36, 20-50% , 5-15mm, Prominent; , 10YR56, 20-50% , 5-15mm, Prominent; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong consistence;
3.5 - 4 m	Light grey (2.5Y7/0-Moist); , 2.5YR36, 20-50% , 5-15mm, Prominent; , 10YR56, 20-50% , 5-15mm, Prominent; Sandy loam (Light); Strong grade of structure, 10-20 mm, Angular blocky; Strong consistence;
4 - 4.5 m	;

Morphological Notes

Stratified YR Y and LG sandy sediments:

Observation Notes

FROM 150CM MANY ELONGATE VERMIFORM UNITS SIMILAR TO THOSE IN BASALT SOILS:

Site Notes

SILKWOOD

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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	4.6A	0.101A	2.21H	1.13	0.46	0.17	3.4F	4.7A	7.4F	3.62
0.1 - 0.2	4.5A	<0.05A								
0.2 - 0.3	4.5A	<0.05A	0.21H	0.27	0.13	0.05	3.9F	3.4A	4.6F	1.47
0.3 - 0.45	4.6A	<0.05A								
0.45 - 0.6	4.7A	<0.05A	0.15H	0.62	0.16	0.05	2.9F	3.2A	3.9F	1.56
0.6 - 0.75	4.9A	<0.05A								
0.75 - 0.9	4.8A	<0.05A	0.09H	0.38	0.12	0.07	1.7F	2.7A	2.4F	2.59
0.9 - 1.2	4.8A	<0.05A								
1.2 - 1.5	4.8A	<0.05A	0.06H	0.34	0.16	0.09	1.3F	2.7A	2F	3.33
1.5 - 1.8	4.8A	<0.05A								
1.8 - 2.1	4.8A	<0.05A								
2.1 - 2.5	4.9A	<0.05A								
2.5 - 3	4.8A	<0.05A								
3 - 3.5	4.7A	<0.05A								
3.5 - 4	4.6A	<0.05A								
4 - 4.5	4.8A	<0.05A								

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1.5 - 1.8
1.8 - 2.1
2.1 - 2.5
2.5 - 3
3 - 3.5
3.5 - 4
4 - 4.5

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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