

Project Name: SAM
Project Code: SAM **Site ID:** B419 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	Paddock 6A.
Date Desc.:	21/12/59	Elevation:	55 metres
Map Ref.:	Sheet No. : 9443 1:100000	Rainfall:	1016
Northing/Long.:	152.883333333333	Runoff:	Moderately rapid
Easting/Lat.:	-27.362222222222	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Rga	Substrate Material:	Soil pit, 0.76 m deep,Granodiorite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Mid-slope	Relief:	15 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	8.7 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Grey Chromosol		Principal Profile Form:	Dy3.12
ASC Confidence:		Great Soil Group:	Prairie soil
All necessary analytical data are available.			

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.16 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam (Heavy); Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.8 (pH meter); AbundantClear change to -
B2	0.18 - 0.38 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR56, 2-10% , 0-5mm, Distinct; , 2.5YR48, 2-10% , 0-5mm, Distinct; Medium heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Slightly plastic; Normal plasticity; Field pH 5.9 (pH meter); Gradual change to -
B3	0.38 - 0.53 m	Grey (2.5Y5/1-Moist); , 7.5YR54, 10-20% , 5-15mm, Distinct; , 2.5YR48, 10-20% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Wet; Moderately plastic; Normal plasticity; Field pH 6.5 (pH meter); Gradual change to -
BC	0.53 - 0.71 m	Light grey (2.5Y7/1-Moist); , 10YR68, 10-20% , 0-5mm, Distinct; , 10YR81, 10-20% , 0-5mm, Distinct; Sandy medium clay (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Wet; Moderately plastic; Normal plasticity; Field pH 6.8 (pH meter); Diffuse change to -
C1	0.76 - 0.94 m	; Sandy clay loam (Light); Massive grade of structure; Field pH 7.1 (pH meter); Diffuse change to -
C2	1.55 - 1.9 m	; Clayey sand; Massive grade of structure; Field pH 7.9 (pH meter);

Morphological Notes

C2 Speckled weathered granodiorite.

Observation Notes

38-71CM MANY WEATHERING MINERALS. DARK GREY BROWN SANDY CLAY LOAM FILL BETWEEN PRISM FACES. 76-94CM AS FOR 115-190CM.

Site Notes

SAMFORD WEST

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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 - 0.16	5.8H	0.01B	3.9K	1.6	0.1	0.08	3.9D			
0.18 - 0.38	5.9H	0.02B	6.6K	6.1	0.06	0.47	5.5D			
0.38 - 0.53	6.5H	0.02B								
0.53 - 0.71	6.8H	0.02B								
0.76 - 0.94	7.1H	0.02B								
1.55 - 1.9	7.9H	0.01B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.16		1.1A		0.02F	0.1B			0	32C	41	8	12
0.18 - 0.38		0.8A		0.02F	0.08B			0	21C	23	8	47
0.38 - 0.53												
0.53 - 0.71												
0.76 - 0.94												
1.55 - 1.9				0.04F								

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded