

**Project Name:** SAM  
**Project Code:** SAM      **Site ID:** B417      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	C.H. Thompson	<b>Locality:</b>	4.5chs N of S boundary E road edge near Area 25.
<b>Date Desc.:</b>	03/02/60	<b>Elevation:</b>	46 metres
<b>Map Ref.:</b>	Sheet No. : 9443    1:100000	<b>Rainfall:</b>	1016
<b>Northing/Long.:</b>	152.889166666667	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-27.357777777778	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qa	<b>Substrate Material:</b>	Soil pit, 0.53 m deep, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	32 metres
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Kandosol	<b>Principal Profile Form:</b>	Gn2.15
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Prairie soil

All necessary analytical data are available.

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

Ap	0 - 0.13 m	Greyish brown (10YR5/2-Moist); ; Loam; Weak grade of structure, Platy; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 5.9 (pH meter); Gradual change to -
A1	0.13 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam, sandy; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; 0-2%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; Field pH 5.9 (pH meter); Gradual change to -
B1	0.2 - 0.28 m	Yellowish red (5YR4/8-Moist); ; Light clay; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 6 (pH meter); Gradual change to -
B2	0.28 - 0.43 m	Reddish brown (5YR4/4-Moist); ; 7.5YR42, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Light medium clay; Massive grade of structure; Many (>5 per 100mm2) macropores, Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, , Soft segregations; Field pH 6.2 (pH meter); Gradual change to -
B3	0.43 - 0.53 m	Reddish brown (5YR4/4-Moist); ; Sandy medium clay; Massive grade of structure; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 6.3 (pH meter); Gradual change to -
C	0.53 - 0.91 m	Brown (7.5YR4/4-Moist); ; Clayey sand (Heavy); Massive grade of structure; Moist; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, subrounded, Igneous rock (unidentified), coarse fragments; Field pH 6.4 (pH meter); Diffuse change to -
C	0.91 - 1.22 m	Brown (7.5YR4/4-Moist); ; Clayey sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, Igneous rock (unidentified), coarse fragments; Field pH 6.6 (pH meter); Diffuse change to -
C	1.22 - 1.52 m	Dark yellowish brown (10YR4/4-Moist); , 10YR32; Clayey sand; Massive grade of structure; Moist; Very weak consistence; Field pH 6.5 (pH meter);

**Morphological Notes**

**Observation Notes**

ALLUVIAL - PRAIRIE - LIKE INTERGRADE.

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**Site Notes**

SAMFORD EAST

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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		%
							(+)/kg		
0 - 0.13	5.9H	0.01B	3.4K	0.87	0.14	0.18	3.1D		
0.13 - 0.2	5.9H	0.01B							
0.2 - 0.28	6H	0.01B							
0.28 - 0.43	6.2H	0.01B	5.3K	3.1	0.1	0.16	2.9D		
0.43 - 0.53	6.3H	0.01B							
0.53 - 0.91	6.4H	0.01B							
0.91 - 1.22	6.6H	0.01B							
1.22 - 1.52	6.5H	0.01B							

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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
9_NR	Available P (mg/kg) - 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