Project Name: YAL
Project Code: YAL **Site ID:** P558 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By: G.M. Dimmock
Date Desc.: 20/06/67
Map Ref.: Sheet No. : 2134 1:100000
Northing/Long.: 116.491944444445
Easting/Lat.: -31.7655555555556
Locality: 4KM south east of Bakers Hill:
Elevation: 303 metres
Rainfall: 620
Runoff: Rapid
Drainage: No Data

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Granite

Land Form

Rel/Slope Class: No Data
Morph. Type: Lower-slope
Elem. Type: Fan
Slope: 0 %
Pattern Type: Alluvial fan
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Paralithic Brown Kandosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Gn1.42
Great Soil Group: Lateritic podzolic soil

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, , , Gravel

Profile Morphology

A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand (Heavy); Single grain grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; ManyGradual change to -
A12	0.05 - 0.1 m	Brown (10YR4/3-Moist); ; Sandy loam; Massive grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; CommonClear change to -
	0.1 - 0.2 m	Yellowish brown (10YR5/6-Moist); ; Sandy loam; Massive grade of structure; Very weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; CommonGradual change to -
	0.2 - 0.3 m	Yellowish brown (10YR5/6-Moist); ; Sandy loam; Massive grade of structure; Very weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; FewDiffuse change to -
	0.3 - 0.4 m	Yellowish brown (10YR5/6-Moist); ; Clayey sand; Massive grade of structure; Very weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments; Diffuse change to -
	0.4 - 0.6 m	Yellowish brown (10YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Loose consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Substrate material, coarse fragments; Gradual change to -
	0.6 - 0.9 m	Yellowish brown (10YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;
	0.9 - 0.98 m	Yellowish brown (10YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; 50-90%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Clear change to -
	0.98 - 1.2 m	Yellowish brown (10YR5/6-Moist); , 5YR48, 2-10% ; , 2-10% ; Sandy clay loam (Light); Massive grade of structure; Very firm consistence; 50-90%, medium gravelly, 6-20mm, Substrate material, coarse fragments;
	1.2 - 1.3 m	Yellowish brown (10YR5/6-Moist); , 5YR48, 2-10% ; , 2-10% ; Sandy clay loam (Light); Massive grade of structure; Very firm consistence; 50-90%, medium gravelly, 6-20mm, Substrate material, coarse fragments;

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Morphological Notes

Observation Notes

0-130CM AL GV IS FERRUGINOUS: 60-90CM SEVERAL BOULDERS OF VESECULAR LATERITE LAYERS RE NUMBERED 15/10/92

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	6.2A	0.015A	3.9K	1.12	0.19	0.16			5.3B	
0.05 - 0.1	6.4A	0.012A	2.9K	0.6	0.27	0.13			3.9B	
0.1 - 0.2	6.7A	0.012A								
0.2 - 0.3	6.8A	0.012A	1.2K	1	0.26	0.1			2.5B	
0.3 - 0.4	6.9A	0.009A								
0.4 - 0.6	6.8A	0.012A								
0.6 - 0.9	6.8A	0.012A	0.8K	1.5	0.15	0.23			2.7B	
0.9 - 0.98	6.8A	0.012A								
0.98 - 1.2	6.8A	0.012A	0.7K	1.4	0.16	0.16			2.4B	
1.2 - 1.3										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05			2A	0.01D	0.075B	0.004C		2	65D	25	6	3
0.05 - 0.1			<2A	0.01D	0.05B	0.004C		3	62D	24	6	9
0.1 - 0.2								4	57D	27	5	10
0.2 - 0.3								4	53D	29	6	12
0.3 - 0.4								9	55D	27	5	13
0.4 - 0.6								37	56D	22	4	17
0.6 - 0.9				0.012D		0.006C		68	46D	26	4	23
0.9 - 0.98								77	42D	28	4	25
0.98 - 1.2				0.012D		0.004C		69	44D	30	7	19
1.2 - 1.3												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.05										
0.05 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.6										
0.6 - 0.9										
0.9 - 0.98										
0.98 - 1.2										
1.2 - 1.3										

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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_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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
17A_HCL	Total element - K(%) - By boiling HCl
2_LOI	Loss on Ignition (%)
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
7_NR	Total nitrogen (%) - Not recorded
9A_HCL	Total element - P(%) - By boiling HCl
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance