

Project Name: YAL **Site ID:** P671 **Observation ID:** 1
Project Code: YAL **Agency Name:** CSIRO Division of Soils (WA)

Site Information

Desc. By:	G.M. Dimmock	Locality:	Adjacent to proline bore A2 (1964 series) and deep bore 4 (1968 Gemco series):
Date Desc.:	28/10/71	Elevation:	340 metres
Map Ref.:	Sheet No. : 2134 1:100000	Rainfall:	620
Northing/Long.:	116.475833333333	Runoff:	Rapid
Easting/Lat.:	-31.7663888888889	Drainage:	Imperfectly drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 12 m deep, Granite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mesotrophic Brown Kurosol		Principal Profile Form:	Dy5.81
ASC Confidence:		Great Soil Group:	Lateritic podzolic soil
All necessary analytical data are available.			

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Sandy loam; Single grain grade of structure; Moderately moist; Very weak consistence; 50-90%, coarse gravelly, 20-60mm, rounded, Substrate material, coarse fragments;
	0.05 - 0.1 m	Brown (10YR4/3-Moist); ; Loamy sand; Single grain grade of structure; Loose consistence; 90-100%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;
	0.1 - 0.2 m	Brown (10YR5/3-Moist); ; Loamy sand; Single grain grade of structure; Loose consistence; 90-100%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;
	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Loose consistence; 90-100%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;
	0.3 - 0.4 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Loose consistence; 90-100%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;
	0.4 - 0.5 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Loose consistence; 90-100%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;
	0.5 - 0.6 m	Brown (10YR5/3-Moist); ; Clayey sand (Light); Single grain grade of structure; Loose consistence; 90-100%, coarse gravelly, 20-60mm, angular, Substrate material, coarse fragments;
	0.6 - 0.7 m	Yellowish brown (10YR5/4-Moist); ; Clayey sand; Massive grade of structure; Loose consistence; 90-100%, coarse gravelly, 20-60mm, subangular, Substrate material, coarse
	0.7 - 0.8 m	Yellowish brown (10YR5/4-Moist); ; Clayey sand; Massive grade of structure; Loose consistence; 90-100%, coarse gravelly, 20-60mm, subangular, Substrate material, coarse fragments; Clear change to -
	0.85 - 0.9 m	Strong brown (7.5YR5/8-Moist); , 2.5YR36; Sandy clay loam; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments;
	0.9 - 1 m	Strong brown (7.5YR5/8-Moist); , 2.5YR46; , 10R36; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Weak consistence; 10-20%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments;

Project Name: YAL **Site ID:** P671 **Observation ID:** 1
Project Code: YAL **Agency Name:** CSIRO Division of Soils (WA)

- 1 - 1.11 m Strong brown (7.5YR5/8-Moist); , 2.5YR46; , 10R36; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Weak consistence; 10-20%, subangular, Substrate material, coarse fragments; Abrupt, Irregular change to -
- 1.11 - 1.2 m Brownish yellow (10YR6/8-Moist); , 10YR86; , 10R44; Medium clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;
- 1.2 - 1.3 m Brownish yellow (10YR6/8-Moist); , 10R44; , 5Y81; Medium clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;
- 1.3 - 1.4 m Brownish yellow (10YR6/8-Moist); , 5Y81; , 10R44; Medium clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;
- 1.4 - 1.5 m Brownish yellow (10YR6/8-Moist); , 5Y81; , 10R44; Medium clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;
- 1.5 - 1.55 m Brownish yellow (10YR6/8-Moist); , 5Y81; , 10R44; Medium clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;
- 1.55 - 1.6 m Brownish yellow (10YR6/8-Moist); , 5Y81; , 10R44; Medium clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;
- 1.6 - 1.7 m Brownish yellow (10YR6/8-Moist); , 5Y81; , 10R44; Medium clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
- 1.7 - 1.8 m Brownish yellow (10YR6/8-Moist); , 5Y81; , 10R44; Medium clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;
- 1.8 - 1.9 m Brownish yellow (10YR6/8-Moist); , 5Y81; , 10R44; Medium clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;

Morphological Notes

Observation Notes

0-111CM AL GV IS FERRUGINOUS:100-111CM AL GV FORMED FROM HARDENED RED MOTTLES:LAYERS RE NUMBERED
15/10/92

Site Notes

Project Name: YAL
Project Code: YAL
Agency Name: CSIRO Division

Site ID: P671
6.2.1.1 (W1)

Observation ID: 1

Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations			Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
				Mg	K						
0 - 0.05	6A	0.196A									
0.05 - 0.1	5.7A	0.083A	3.27K	0.56	0.24		0.14	4.21E			
0.1 - 0.2	5.7A	0.077A									
0.2 - 0.3	5.7A	0.071A									
0.3 - 0.4	5.6A	0.065A	1.21K	0.4	0.6		0.16	2.37E			
0.4 - 0.5	5.7A	0.068A									
0.5 - 0.6	5.7A	0.068A									
0.6 - 0.7	5.7A	0.063A	0.91K	0.45	0.16		0.07	1.59E			
0.7 - 0.8	5.7A	0.06A									
0.85 - 0.9											
0.9 - 1	5.4A	0.071A	1.12K	0.76	0.44		0.2	2.52E			
1 - 1.11	5.5A	0.065A									
1.11 - 1.2	5.5A	0.065A	0.91K	0.86	0.21		0.09	2.07E			
1.2 - 1.3	5.1A	0.057C									
1.3 - 1.4	4.8A	0.063A	0.4K	0.65	0.14		0.09	1.28E			
1.4 - 1.5	4.3A	0.08A									
1.5 - 1.55	4.2A	0.086A	0.1K	0.05	0.07		0.05	0.27E			
1.55 - 1.6	4A	0.086A									
1.6 - 1.7	4A	0.092A	0.05K	0.2	0.03		0.07	0.35E			
1.7 - 1.8	4.6A	0.104A	0.1K	0.15	0.06		0.08	0.39E			
1.8 - 1.9	4.3A	0.098A	0.1K	0.15	0.06		0.12	0.43E			
Depth m	CaCO ₃ %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m ³	Particle GV	Size CS %	Analysis Silt	Clay
0 - 0.05								66	43D	38	8
0.05 - 0.1								71	41D	41	6
0.1 - 0.2								71	37D	46	7
0.2 - 0.3								73	37D	52	5
0.3 - 0.4								78	39D	51	6
0.4 - 0.5								79	43D	44	6
0.5 - 0.6								78	47D	37	8
0.6 - 0.7								80	47D	37	6
0.7 - 0.8								74	50D	35	5
0.85 - 0.9								56	60D	17	6
0.9 - 1								48	42D	19	8
1 - 1.11								33	34D	21	9
1.11 - 1.2								27	30D	19	16
1.2 - 1.3								16	25D	22	17
1.3 - 1.4								9	22D	20	19
1.4 - 1.5								10	20D	19	21
1.5 - 1.55								4	25D	14	23
1.55 - 1.6								6	33D	11	25
1.6 - 1.7								4	26D	9	29
1.7 - 1.8								3	22D	10	22
1.8 - 1.9								1	22D	14	27
Depth m	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		mm/h	mm/h
					g/g	m ³ /m ³					

Project Name: YAL **Site ID:** P671 **Observation ID:** 1
Project Code: YAL **Agency Name:** CSIRO Division of Soils (WA)

0 - 0.05
0.05 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.85 - 0.9
0.9 - 1
1 - 1.11
1.11 - 1.2
1.2 - 1.3
1.3 - 1.4
1.4 - 1.5
1.5 - 1.55
1.55 - 1.6
1.6 - 1.7
1.7 - 1.8
1.8 - 1.9

Project Name: YAL **Site ID:** P671 **Observation ID:** 1
Project Code: YAL **Agency Name:** CSIRO Division of Soils (WA)

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
15G1_H Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
2A1 Air-dry moisture content
3A_TSS Electrical conductivity or soluble salts - Total soluble salts %
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
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