Project Name: YAL

Project Code: YAL Site ID: P552A Observation ID: 1

Agency Name: CSIRO Division of Soils (WA)

**Site Information** 

Desc. By: G.M. Dimmock Locality: 97KM S.W. of main road through property on south

side of E. Watson's 'Spillway Sand' plot enclosure: in

from P552:

 Date Desc.:
 02/09/69
 Elevation:
 341 metres

 Map Ref.:
 Sheet No.: 2134 1:100000
 Rainfall:
 620

 Northing/Long.:
 116.466666666667
 Runoff:
 Rapid

Easting/Lat.: -31.7666666666667 Drainage: Imperfectly drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Auger boring, 35 m deep,Granite

**Land Form** 

Rel/Slope Class:No DataPattern Type:PlainMorph. Type:FlatRelief:No DataElem. Type:Drainage depressionSlope Category:No DataSlope:2.5 %Aspect:No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Uc2.12

ASC Confidence: Great Soil Group: Lateritic podzolic

Confidence level not specified soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

coarse fragments; Clear, Irregular change to -

**Vegetation:** 

**Surface Coarse Fragments:** 

1.63 - 1.8 m

<b>Profile</b>	Morphology	
A1p	0 - 0.04 m	Very dark grey (10YR3/1-Moist); Dark grey (10YR4/1-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, cobbly, 60-200mm, Substrate material, coarse fragments; Clear, Irregular change to -
A21	0.04 - 0.1 m	Grey (10YR5/1-Moist); Light brownish grey (10YR6/2-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; 90-100%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Gradual change to -
A22	0.1 - 0.2 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; 90-100%, Substrate material, coarse fragments; Diffuse change to -
A23	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 90-100%, Substrate material, coarse fragments; Diffuse change to -
A24	0.3 - 0.6 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 90-100%, bouldery, 600mm-2m, Substrate material, coarse fragments; Gradual change to -
A25	0.6 - 0.9 m	Light yellowish brown (10YR6/4-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; Diffuse, Irregular change to -
	0.9 - 1.2 m	; Sand; Weak grade of structure, 20-50 mm, Platy;
	1.2 - 1.37 m	; Clayey sand; Weak grade of structure, 20-50 mm, Platy; Abrupt, Irregular change to -
	1.37 - 1.5 m	Brownish yellow (10YR6/6-Dry); , 10R56; Sandy clay loam; Weak grade of structure, 20-50 mm, Platy; Diffuse, Irregular change to -
	1.5 - 1.63 m	Reddish yellow (7.5YR6/6-Dry); , 10R46; , 10YR63; Sandy clay loam; Massive grade of structure; Very strong consistence; Diffuse change to -

Brownish yellow (10YR6/6-Dry); , 10YR73; , 10R46; Sandy clay loam; Massive grade of structure; Very strong consistence; 10-20%, medium gravelly, 6-20mm, Substrate material,

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1.8 - 2 m Brownish yellow (10YR6/6-Dry); , 10YR76; , 2.5Y74; Sandy medium clay; Massive grade of structure; Very strong consistence; 2-10%, Substrate material, coarse fragments; , Ferruginous, Coarse (6 - 20 mm), Soft segregations; FewDiffuse change to -

2 - 2.25 m Light grey (2.5Y7/2-Dry); , 10YR76; , 7.5YR66; Medium clay; Massive grade of structure; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Few cutans, <10% of ped faces or

walls coated; Few, very fine (0-1mm) roots; Gradual change to -

2.25 - 2.44 m Strong brown (7.5YR5/6-Dry); , 2.5Y72; , 10R46; Medium clay; Massive grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; FewClear change to -

2.44 - 2.53 m Strong brown (7.5YR5/6-Dry); , 7.5R44; , 2.5Y82; Medium clay; Massive grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots;

Clear change to -

2.53 - 2.73 m White (2.5Y8/1-Dry); , 7.5YR68; , 7.5R44; Medium clay; Massive grade of structure; Many cutans,

>50% of ped faces or walls coated, distinct; FewDiffuse change to -

2.73 - 2.88 m White (2.5Y8/1-Dry); , 7.5R44; , 7.5YR66; Medium clay; Massive grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots;

## **Morphological Notes**

## **Observation Notes**

0-225CM AL GV IS FERRUGINOUS: 90-137CM FRAGMENTARY DURICRUST:

LAYERS RE NUMBERED 15/10/92

## Site Notes

AVON L.S.2/80

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Depth	pН	1:5 EC		hangeable	Cations K	Na	Exchangeable	CEC		ECEC		ESP	
m		dS/m	•d	Mg	N.	Cmol (	Acidity +)/kg					%	
0 - 0.04	6A	0.06A	4.5K	0.6	0.1	0.2				5.8B	,		
0.04 - 0.1	6A	0.06A											
0.1 - 0.2	6.1A	0.06A											
0.2 - 0.3	6.2A	0.06A	0.8K	0.2	0	0.1				1.1E			
0.3 - 0.6	6.4A	0.06A											
0.6 - 0.9	6.4A	0.06A	0.6K	0.3	0	0.1				1E			
0.9 - 1.2	6.5A	0.06A											
1.2 - 1.37	6.6A	0.06A	0.6K	0.3	0.2	0.2				1.3E			
1.37 - 1.5	6.7A	0.06A	0.8K	0.8	0.1	0.2				1.9E			
1.5 - 1.63	6.9A	0.06A	0.8K	0.9	0.1	0.2				2E			
1.63 - 1.8	6.9A	0.06A	0.7K	0.9	0.1	0.2				1.9E			
1.8 - 2	6.8A	0.06A	0.6K	1.1	0.1	0.2				2E			
2 - 2.25	6.7A	0.06A	0.5K	1.3	0.1	0.3				1.9E			
2.25 - 2.44	6.2A	0.119A	0.5K	2	0.1	0.7				2.6E			
2.44 - 2.53	5.8A	0.179A	0.3K	2.3	0.1	1				2.7E			
2.53 - 2.73	5.4A	0.208A	0.3K	2.7	0.1	1				3.1E			
2.73 - 2.88	5.4A	0.149A	0.5K	2.5	0.1	1.1				3.1E			
Depth	CaCO3	Organic	Avail.	Total	Total	Tota			rticle		Analys		
	0/	C	P	P	N o/	K	Density Mar/m2	G۷	CS	FS	Silt	Clay	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size A	nalysi	s
m	%	C %	P ma/ka	P %	N %	K %	Density	G۷	cs	FS %	Silt	Clay
m	70	70	mg/kg	70	70	70	Mg/m3			70		
0 - 0.04	0.8A	2.54D			0.071	В		43	75D	18	2	4
0.04 - 0.1	0.3A	1.13D			0.033	В		66	77D	19	0	3
0.1 - 0.2	0.2A	0.59D			0.019	В		79	72D	24	2	1
0.2 - 0.3	0.2A							66	72D	25	3	1
0.3 - 0.6	0.2A							80	74D	21	2	3
0.6 - 0.9	0.3A							87	75D	18	1	6
0.9 - 1.2	0.6A							84	70D	22	1	6
1.2 - 1.37	0.5A							80	76D	14	0	9
1.37 - 1.5	1.1A							78	64D	16	0	19
1.5 - 1.63	1.2A							53	60D	13	2	24
1.63 - 1.8	1A							34	54D	14	3	27
1.8 - 2	0.8A							16	52D	9	2	34
2 - 2.25	0.8A							10	48D	10	6	37
2.25 - 2.44	1A							9	39D	7	8	45
2.44 - 2.53	0.8A							7	41D	8	8	42
2.53 - 2.73	0.9A							12	35D	6	13	44
2.73 - 2.88	1.1A							21	37D	7	12	42

Depth	COLE		Gravimetric/Volumetric Water Contents							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	

<sup>0 - 0.04</sup> 0.04 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.9 0.9 - 1.2

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**CSIRO** Division of Soils (WA)

1.2 - 1.37 1.37 - 1.5 1.5 - 1.63 1.63 - 1.8 1.8 - 2 2 - 2.25 2.25 - 2.44 2.44 - 2.53 2.53 - 2.73 2.73 - 2.88

YAL **Project Name:** 

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## **Laboratory Analyses Completed for this profile**

Sum of Ex. cations + Ex. acidity - Not recorded 15\_NR

15\_NR\_CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
Sum of Ex. cations (Na++) - meq per 100g of soil - Not recorded
Sum of Ex. cations 4 Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) 15\_NR\_K 15\_NR\_MG 15\_NR\_NA

15J\_H

19A1 Carbonates - rapid titration 3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

5A2 Chloride - 1:5 soil/water extract, automated colour

Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen (%) - Not recorded 6A1\_UC

7\_NR

P10\_GRAV Gravel (%)

Clay (%) - Plummet balance P10\_PB\_C P10\_PB\_CS P10\_PB\_FS Coarse sand (%) - Plummet balance Fine sand (%) - Plummet balance P10\_PB\_Z Silt (%) - Plummet balance