

Project Name: Dandaragan land resources survey
Project Code: DAN **Site ID:** 0422 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Ted (E.A.) Griffin	Locality:
Date Desc.: 21/08/95	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6557349 AMG zone: 50	Runoff: No Data
Easting/Lat.: 412136 Datum: AGD84	Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Hillcrest	Slope Category: No Data
Slope: 3 %	Aspect: 270 degrees

Surface Soil Condition

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Ferric Mesotrophic Brown Kandosol	Principal Profile Form: N/A
ASC Confidence:	Great Soil Group: N/A
No analytical data are available but confidence is fair.	

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

Vegetation:

Surface Coarse

Profile

A1h 0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy loam; Single grain grade of structure; Sandy
coarse	(grains prominent) fabric; Moist; 20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, fragments; 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;
Many, very fine	(0-1mm) roots; Clear, Wavy change to -
A2c 0.05 - 0.25 m	Brown (7.5YR5/4-Moist); ; Single grain grade of structure; Sandy (grains prominent)
fabric; Moist; 50-	90%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 20-50%, medium
gravelly, 6-20mm,	subrounded, Ironstone, coarse fragments; Field pH 5.5 (pH meter); Common, very fine
(0-1mm) roots;	Gradual, Wavy change to -
B2 0.25 - 0.4 m	Red (2.5YR4/6-Moist); ; Fine sandy clay loam; Weak grade of structure, 2-5 mm,
Polyhedral; Moist; 2-	10%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 5.9
(pH meter); Few,	very fine (0-1mm) roots; Diffuse change to -
Cr 0.4 - 0.7 m	Reddish yellow (7.5YR6/8-Moist); Substrate influence, 7.5YR73, 10-20% , 0-5mm, Faint;
Fine sandy clay	loam; Massive grade of structure; Earthy fabric; Moist; Field pH 6.2 (pH meter); Few,
medium (2-5mm)	roots; Diffuse change to -
Cr 0.7 - 1 m	White (2.5Y8/1-Moist); Substrate influence, 2.5YR46, 20-50% , 15-30mm, Distinct; Clay
loam; Massive	grade of structure; Earthy fabric; Moist; Field pH 6.4 (pH meter); Few, very fine (0-1mm)
roots;	

Morphological Notes

A1h	10% gravel is ironstone and quartz
A2c	Weak fine sandy clay loamy gravel--20% gravel is ironstone and quartz --layer variable
from less	than 5cm to 20cm thick

B2	Weak peds--roots few to common with distinct root channels
Cr	Highly weathered schist--some root channels--some coarse quartz residues--mottles
increase	
	in size with depth
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Observation Notes

Site Notes

MX-IS + QZ-- sampled: 422a-e

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	4.1B 4.4H	27B	2.75H	0.52	0.04	0.1	0.84J		3.41D	
0 - 0.05	4.1B 4.4H	27B	2.75H	0.52	0.04	0.1	0.84J		3.41D	
0.05 - 0.25	4.6B 5.3H	3B	0.99H	0.21	<0.02	0.04	0.29J		1.25D	
0.05 - 0.25	4.6B 5.3H	3B	0.99H	0.21	<0.02	0.04	0.29J		1.25D	
0.25 - 0.4	4.6B 5.5H	3B	1.8H	1.15	0.02	0.11	0.38J		3.08D	
0.25 - 0.4	4.6B 5.5H	3B	1.8H	1.15	0.02	0.11	0.38J		3.08D	
0.4 - 0.7	4.8B 5.6H	3B	1.02H	1.99	<0.02	0.11	0.1J		3.13D	
0.4 - 0.7	4.8B 5.6H	3B	1.02H	1.99	<0.02	0.11	0.1J		3.13D	
0.7 - 1	5B 5.8H	6B	0.72H	2.53	<0.02	0.37	0.02J		3.63D	
0.7 - 1	5B 5.8H	6B	0.72H	2.53	<0.02	0.37	0.02J		3.63D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.05 8.3		2.67D		382B	0.218E			7.9
0 - 0.05 8.3		2.67D		382B	0.218E			7.9
0.05 - 0.25 14.1		0.44D		62B	0.028E			5.9
0.05 - 0.25 14.1		0.44D		62B	0.028E			5.9
0.25 - 0.4 46.7		0.55D		42B	0.033E			18.6
0.25 - 0.4 46.7		0.55D		42B	0.033E			18.6
0.4 - 0.7 38.9		0.19D		26B	0.012E			24.6
0.4 - 0.7 38.9		0.19D		26B	0.012E			24.6
0.7 - 1 38.7		0.13D		20B	0.009E			19.1
0.7 - 1 38.7		0.13D		20B	0.009E			19.1

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations

18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded

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4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)