

**Project Name:** Dandaragan land resources survey  
**Project Code:** DAN **Site ID:** 0856 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Ted (E.A.) Griffin	<b>Locality:</b>
<b>Date Desc.:</b> 18/05/96	<b>Elevation:</b> No Data
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6607560 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 381036 Datum: AGD84	<b>Drainage:</b> Rapidly drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> Rises
<b>Morph. Type:</b> Crest	<b>Relief:</b> No Data
<b>Elem. Type:</b> Summit surface	<b>Slope Category:</b> No Data
<b>Slope:</b> 1 %	<b>Aspect:</b> 180 degrees

#### Surface Soil Condition Soft

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Basic Arenic Brown-Orthic Tenosol	<b>Principal Profile Form:</b> N/A
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> N/A

All necessary analytical data are available.

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

#### Vegetation:

#### Surface Coarse

#### Profile

A1	0 - 0.15 m	Brown (10YR4/3-Moist); ; Clayey sand; Single grain grade of structure; Very weak consistence; Field pH 5.1 (pH meter); Many, very fine (0-1mm) roots; Clear, Smooth change to -
A2	0.15 - 0.5 m	Yellowish brown (10YR5/6-Moist); ; Clayey sand; Single grain grade of structure; Very weak consistence; Field pH 5.1 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21w	0.5 - 1.5 m	Brownish yellow (10YR6/8-Moist); ; Loamy fine sand; Single grain grade of structure; Very weak consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
B22w	1.5 - 2 m	Yellow (2.5Y7/8-Moist); ; Clayey fine sand; Single grain grade of structure; Very weak consistence; Field pH 6 (pH meter); Few, very fine (0-1mm) roots;
B23w	4 - 4.2 m	Yellow (2.5Y7/8-Moist); ; Fine sandy loam; Single grain grade of structure; Field pH 6.1 (pH meter);

#### Morphological Notes

B21w pH increases from 5.5 to 5.9 with depth

#### Observation Notes

#### Site Notes

clay content increases with depth--inclusions of grey topsoil along root channels to greater than 100 cm

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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				Na Cmol (+)/kg				%
0 - 0.15	4.5B	6B	1.57H	0.16	0.07	0.11	0.21J		1.91D	

0 - 0.15	5.2H 4.5B 5.2H	6B	1.57H	0.16	0.07	0.11	0.21J	1.91D
0.01 - 0.05								
0.15 - 0.5	4.5B 5.3H	1B	0.41H	0.05	0.02	0.04	0.14J	0.52D
0.15 - 0.5	4.5B 5.3H	1B	0.41H	0.05	0.02	0.04	0.14J	0.52D
0.2 - 0.24								
0.5 - 1	5.1B 6H	1B	0.38H	0.05	<0.02	0.02	<0.02J	0.46D
0.5 - 1	5.1B 6H	1B	0.38H	0.05	<0.02	0.02	<0.02J	0.46D
0.77 - 0.81								
1 - 1.5								
1.34 - 1.38								
1.5 - 2	5.9B 6.5H	1B	0.23H	0.11	<0.02	0.05	<0.02J	0.4D
1.5 - 2	5.9B 6.5H	1B	0.23H	0.11	<0.02	0.05	<0.02J	0.4D
1.7 - 1.74								
4 - 4.2	6B 6.3H	6B	0.15H	0.18	<0.02	0.03	<0.02J	0.37D
4 - 4.2	6B 6.3H	6B	0.15H	0.18	<0.02	0.03	<0.02J	0.37D

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.15		0.75D		127B	0.052E			0.9
2.6								
0 - 0.15		0.75D		127B	0.052E			0.9
2.6								
0.01 - 0.05							1.61	
0.15 - 0.5		0.17D		57B	0.012E			0.7
3.4								
0.15 - 0.5		0.17D		57B	0.012E			0.7
3.4								
0.2 - 0.24							1.68	
0.5 - 1		0.08D		40B	0.008E			0.4
3.7								
0.5 - 1		0.08D		40B	0.008E			0.4
3.7								
0.77 - 0.81							1.59	
1 - 1.5								
1.34 - 1.38							1.59	
1.5 - 2		0.05D		30B	0.005E			0.8
4.2								
1.5 - 2		0.05D		30B	0.005E			0.8
4.2								
1.7 - 1.74							1.67	
4 - 4.2		0.04D		21B	0.003E			1.1
4								
4 - 4.2		0.04D		21B	0.003E			1.1
4								

#### Laboratory Analyses Completed for this profile

15\_NR\_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available

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15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 (Mn <sup>2+</sup> ) 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
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)
P3A_NR	Bulk density - Not recorded