

Project Name: Dandaragan land resources survey
Project Code: DAN **Site ID:** 0855 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	B. Purdie	Locality:	
Date Desc.:	17/05/96	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6607676 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	380013 Datum: AGD84	Drainage:	Rapidly 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: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	6 %	Aspect:	0 degrees

Surface Soil Condition Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Petroferric Leptic Tenosol	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

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

Vegetation:

Surface Coarse

Profile

A11p 0 - 0.1 m weak consistence;	Dark brown (7.5YR3/3-Moist); ; Loamy fine sand; Single grain grade of structure; Very Field pH 5.4 (pH meter); Clear, Smooth change to -
A12 0.1 - 0.25 m Very weak medium subrounded,	Dark reddish brown (2.5YR3/4-Moist); ; Clayey fine sand; Single grain grade of structure; consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 0-2%, gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; 20-50%, stony, 200-600mm, Ironstone, coarse fragments; Field pH 6 (pH meter); Gradual, Wavy change to -
2B21cm 0.25 - 0.8 m 10%, fine 20mm, Ironstone, coarse	Reddish brown (2.5YR4/4-Moist); ; Single grain grade of structure; Rigid consistence; 2-gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-subrounded, Ironstone, coarse fragments; 50-90%, stony, 200-600mm, subrounded, fragments; Field pH 6.1 (pH meter); Clear, Wavy change to -
3B22c 0.8 - 1 m gravelly, 2-subrounded,	Red (2.5YR4/6-Moist); ; Single grain grade of structure; Weak consistence; 50-90%, fine 6mm, subrounded, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 6.6 (pH meter); Clear, Irregular change to -
3B23c 1 - 2.2 m 20-50%, fine 20mm, subrounded, Ironstone,	Strong brown (7.5YR5/6-Moist); ; Single grain grade of structure; Very firm consistence; gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 10-20%, medium gravelly, 6-subrounded, Ironstone, coarse fragments; 2-10%, coarse gravelly, 20-60mm, coarse fragments; Field pH 6.8 (pH meter);

Morphological Notes

2B21cm	Weakly clayey fine sandy gravel--horizon consists of 80% cemented ironstone
3B22c	Weakly clayey fine sandy gravel
3B23c	Weakly clayey fine sandy gravel

Observation Notes

Site Notes

all gravel is smooth-faced

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	5B 5.6H	12B	3.6H	0.47	0.11	0.08	0.12J		4.26D	
0 - 0.1	5B 5.6H	12B	3.6H	0.47	0.11	0.08	0.12J		4.26D	
0.1 - 0.25	5B 5.8H	3B	1.34H	0.22	0.05	0.02	0.16J		1.63D	
0.1 - 0.25	5B 5.8H	3B	1.34H	0.22	0.05	0.02	0.16J		1.63D	
0.25 - 0.8	5.3B 6.3H	2B	0.82H	0.27	0.08	0.04	0.03J		1.21D	
0.25 - 0.8	5.3B 6.3H	2B	0.82H	0.27	0.08	0.04	0.03J		1.21D	
0.8 - 1										
1 - 1.6										
1.6 - 2.2	5.7B 6.5H	1B	0.37A	0.34	<0.02	0.03			0.75D	
1.6 - 2.2	5.7B 6.5H	1B	0.37A	0.34	<0.02	0.03			0.75D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS FS Silt
0 - 0.1		1.47D		370B	0.107E			1.8
0 - 0.1		1.47D		370B	0.107E			1.8
0.1 - 0.25		0.57D		300B	0.038E			1.3
0.1 - 0.25		0.57D		300B	0.038E			1.3
0.25 - 0.8		0.24D		233B	0.021E			1.3
0.25 - 0.8		0.24D		233B	0.021E			1.3
0.8 - 1								
1 - 1.6								
1.6 - 2.2		0.11D		291B	0.01E			1.6
1.6 - 2.2		0.11D		291B	0.01E			1.6

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
 15A1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
 for soluble salts
 15A1_CEC Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
 15A1_K Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
 for soluble salts
 15A1_MG Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
 for soluble salts
 15A1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
 for soluble salts

15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) by compulsive exchange, no pretreatment for soluble salts

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15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
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)