

Project Name: Dandaragan land resources survey
Project Code: DAN **Site ID:** 0850 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	B. Purdie	Locality:	
Date Desc.:	16/05/96	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6607355 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	376621 Datum: AGD84	Drainage:	Imperfectly 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:	Level plain <9m <1%	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Eutrophic Mottled-Mesonatric Grey Sodosol		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

A11h	0 - 0.04 m	Very dark grey (10YR3/1-Moist); ; Loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy
		fabric; Moist; Very weak consistence; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots; Clear,
		Smooth change to -
A12	0.04 - 0.15 m	Dark grey (10YR4/1-Moist); , 10YR62, 10-20% , 15-30mm, Distinct; Sandy loam;
		Moderate grade of structure, 100-200 mm, Platy; Earthy fabric; Moist; Firm consistence; Field pH 5.2 (pH meter); Common,
		very fine (0-1mm) roots; Diffuse, Wavy change to -
Bt	0.15 - 0.55 m	Grey (10YR5/1-Moist); , 5YR33, 10-20% , 5-15mm, Distinct; Silty medium clay; Moderate grade of
		structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; Strong consistence;
		Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6.2 (pH meter); Few, very fine (0-1mm) roots;
		Gradual, Smooth change to -
2A21	0.55 - 0.7 m	Greyish brown (10YR5/2-Moist); , 7.5YR56, 2-10% , 0-5mm, Distinct; Sandy loam;
		Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6.2 (pH meter);
		Gradual, Smooth change to -
2A22	0.7 - 0.9 m	Greyish brown (10YR5/2-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Moist;
		Very weak consistence; Field pH 6.5 (pH meter); Diffuse, Wavy change to -
2Bhs	0.9 - 1.15 m	Brown (10YR4/3-Moist); ; Sandy loam; Massive grade of structure; Moist; Firm
		consistence; Field pH 6.7 (pH meter); Diffuse, Wavy change to -
2Cm	1.15 - 1.25 m	Greyish brown (10YR5/2-Moist); ; Loamy sand; Massive grade of structure; Moist; Rigid
		consistence; Field pH 6.9 (pH meter);

Morphological Notes

A11h Could be textured as loamy peat--contains earthworms

A12	Roots are concentrated in cracks
Bt	Roots concentrated in cracks
2Bhs	"Podsol B horizon"--darker layer at top of horizon fingering down into the horizon

Observation Notes

Site Notes

possibly Silpanic Humosesquic Semiaquic Podosol [lab data suggests sandy duplex]

Project Name: Dandaragan land resources survey
 Project Code: DAN Site ID: 0850
 Agency Name: Agriculture Western Australia

Observation 1

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 - 0.04	5.2B 5.7H	111B	6.13H	4.28	0.43	2.1	<0.02J		12.94D	
0 - 0.04	5.2B 5.7H	111B	6.13H	4.28	0.43	2.1	<0.02J		12.94D	
0 - 0.04	5.2B 5.7H	111B	6.13H	4.28	0.43	2.1	<0.02J		12.94D	
0.04 - 0.15	4.2B 5.1H	8B	0.75H	0.71	0.08	0.38	0.32J		1.92D	
0.04 - 0.15	4.2B 5.1H	8B	0.75H	0.71	0.08	0.38	0.32J		1.92D	
0.07 - 0.11										
0.15 - 0.55	4.7B 5.7H	13B	1.6H	2.74	0.04	0.93	0.07J		5.31D	
0.15 - 0.55	4.7B 5.7H	13B	1.6H	2.74	0.04	0.93	0.07J		5.31D	
0.21 - 0.25										
0.55 - 0.7	5B 6.5H	3B	0.42A	0.93	0.02	0.24			1.61D	
0.55 - 0.7	5B 6.5H	3B	0.42A	0.93	0.02	0.24			1.61D	
0.56 - 0.6										
0.7 - 0.9	5.2B 6.9H	1B	0.15A	0.5	<0.02	0.13			0.79D	
0.7 - 0.9	5.2B 6.9H	1B	0.15A	0.5	<0.02	0.13			0.79D	
0.9 - 1.15	5.4B 7H	4B	0.49A	4.46	0.15	1.29			6.39D	
0.9 - 1.15	5.4B 7H	4B	0.49A	4.46	0.15	1.29			6.39D	
0.95 - 0.99										
1.15 - 1.25	5.9B 7H	8B	0.18A	0.76	0.02	0.57			1.53D	
1.15 - 1.25	5.9B 7H	8B	0.18A	0.76	0.02	0.57			1.53D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS %	Analysis Silt
0 - 0.04		4.43D		434B	0.406E		1.14			10.6
0 - 0.04		4.43D		434B	0.406E		1.14			10.6
0 - 0.04		4.43D		434B	0.406E		1.14			10.6
0.04 - 0.15		0.59D		153B	0.045E					13.2
0.04 - 0.15		0.59D		153B	0.045E					13.2
0.07 - 0.11							1.38			
0.15 - 0.55		0.29D		307B	0.038E					25.2
0.15 - 0.55		0.29D		307B	0.038E					25.2
0.21 - 0.25							0.99			
0.55 - 0.7		0.08D		46B	0.01E					9.4
0.55 - 0.7		0.08D		46B	0.01E					9.4
0.56 - 0.6							1.18			

Project Name: Dandaragan land resources survey
Project Code: DAN Site ID: 0850 **Observation** 1
Agency Name: Agriculture Western Australia

0.7 - 0.9 1.4	0.04D	27B	0.005E	3.4
0.7 - 0.9 1.4	0.04D	27B	0.005E	3.4
0.9 - 1.15 8.4	0.09D	67B	0.019E	3
0.9 - 1.15 8.4	0.09D	67B	0.019E	3
0.95 - 0.99 1.15 - 1.25 6.8	0.06D	36B	0.006E	1.69 4.6
1.15 - 1.25 6.8	0.06D	36B	0.006E	4.6

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15E1_AL	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_CA salts	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
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
18A1_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Bicarbonate-extractable potassium (not recorded)
4_NR	Electrical conductivity or soluble salts - Not recorded
4B_AL_NR	pH of soil - Not recorded
4B1	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
6A1_UC	pH of 1:5 soil/0.01M calcium chloride extract - direct
7A1	Organic carbon (%) - Uncorrected Walkley and Black method
9A3	Total nitrogen - semimicro Kjeldahl, steam distillation
9B_NR	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Bicarbonate-extractable phosphorus (not recorded)
P10_1m2m	Anion storage capacity
P10_20_75	1000 to 2000u particle size analysis, (method not recorded)
P10_75_106	20 to 75u particle size analysis, (method not recorded)
P10_gt2m	75 to 106u particle size analysis, (method not recorded)
P10_NR_C	> 2mm particle size analysis, (method not recorded)
P10_NR_Saa	Clay (%) - Not recorded
P10_NR_Z	Sand (%) - Not recorded arithmetic difference, auto generated
P10106_150	Silt (%) - Not recorded
P10150_180	106 to 150u particle size analysis, (method not recorded)
P10180_300	150 to 180u particle size analysis, (method not recorded)
P10300_600	180 to 300u particle size analysis, (method not recorded)
P10600T000	300 to 600u particle size analysis, (method not recorded)
P3A_NR	600 to 1000u particle size analysis, (method not recorded)
	Bulk density - Not recorded

Project Name:	Dandaragan land resources survey	Observation	1
Project Code:	DAN	Site ID:	0850
Agency Name:	Agriculture Western Australia		