Project Name: **Dandaragan land resources survey**
Project Code: **DAN** **Site ID:** **0839** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Ted (E.A.) Griffin
Date Desc.: 08/05/96
Map Ref.:
Northing/Long.: 6656241 AMG zone: 50
Easting/Lat.: 364412 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Rapidly drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Crest
Elem. Type: Summit surface
Slope: 0 %
Pattern Type: Plateau
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Soft

Erosion:

Soil Classification

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

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

Vegetation:

Surface Coarse

Profile

A1 0 - 0.1 m Brown (10YR5/3-Moist); ; Clayey sand; Single grain grade of structure; Field pH 5.9 (pH meter); Many, very fine (0-1mm) roots; Clear, Smooth change to -

A31 0.1 - 0.3 m Brownish yellow (10YR6/6-Moist); ; Clayey sand; Single grain grade of structure; Very weak consistence; Field pH 5.6 (pH meter); Many, very fine (0-1mm) roots; Gradual, Smooth change to -

A32 0.3 - 1.2 m Brownish yellow (10YR6/8-Moist); ; Loamy fine sand; Single grain grade of structure; Very weak consistence; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -

A33 1.2 - 2.1 m Brownish yellow (10YR6/8-Moist); ; Clayey fine sand; Single grain grade of structure; Very weak consistence; Field pH 6.3 (pH meter); Few, very fine (0-1mm) roots;

B21 2.1 - 3.5 m Brownish yellow (10YR6/8-Moist); ; Sandy loam;

B22 3.5 - 3.9 m ; Fine sandy loam;

E 3.9 - 4.2 m ; Clayey coarse sand; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 6.4 (pH meter);

Morphological Notes

A32 Clay content increases with depth

Observation Notes

Site Notes

occasional blotches (10YR82) below 30 cm

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP

m		dS/m	Ca	Mg	K	Na	Acidity		%
					Cmol (+)/kg				
0 - 0.1	5.4B 6H	6B	1.28H	0.27	0.06	0.06	0.02J	1.67D	
0 - 0.1	5.4B 6H	6B	1.28H	0.27	0.06	0.06	0.02J	1.67D	
0.1 - 0.3	4.8B 5.7H	1B	0.44H	0.11	0.03	0.04	0.03J	0.62D	
0.1 - 0.3	4.8B 5.7H	1B	0.44H	0.11	0.03	0.04	0.03J	0.62D	
0.2 - 0.24									
0.3 - 0.6	5.5B 6.3H	1B	0.41H	0.14	0.03	0.05	<0.02J	0.63D	
0.3 - 0.6	5.5B 6.3H	1B	0.41H	0.14	0.03	0.05	<0.02J	0.63D	
0.6 - 0.9									
0.75 - 0.79									
0.9 - 1.2									
1.2 - 1.5	6.1B 6.4H	2B	0.27H	0.2	0.03	0.06	<0.02J	0.56D	
1.2 - 1.5	6.1B 6.4H	2B	0.27H	0.2	0.03	0.06	<0.02J	0.56D	
1.4 - 1.44									
1.5 - 1.8									
1.8 - 2.1	6.2B 6.5H	1B	0.29H	0.2	0.02	0.06	<0.02J	0.57D	
1.8 - 2.1	6.2B 6.5H	1B	0.29H	0.2	0.02	0.06	<0.02J	0.57D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		0.61D		82B	0.04E						1.3
2.1											
0 - 0.1		0.61D		82B	0.04E						1.3
2.1											
0.1 - 0.3		0.17D		27B	0.01E						0.9
3.7											
0.1 - 0.3		0.17D		27B	0.01E						0.9
3.7											
0.2 - 0.24							1.51				
0.3 - 0.6		0.19D		23B	0.007E						1.2
6											
0.3 - 0.6		0.19D		23B	0.007E						1.2
6											
0.6 - 0.9											
0.75 - 0.79							1.54				
0.9 - 1.2											
1.2 - 1.5		0.05D		18B	0.004E						1.5
6.1											
1.2 - 1.5		0.05D		18B	0.004E						1.5
6.1											
1.4 - 1.44							1.54				
1.5 - 1.8											
1.8 - 2.1		0.04D		20B	0.004E						1.7
6.1											
1.8 - 2.1		0.04D		20B	0.004E						1.7
6.1											

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 (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
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