

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 2001 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Christopher Grose	Locality:
Date Desc.: 22/02/94	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6781910 AMG zone: 50	Runoff: No Data
Easting/Lat.: 398180 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Hills

Morph. Type: Upper-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: No Data
Slope: %	Aspect: No Data

Surface Soil Condition Loose

Erosion: (wind); (scald) (sheet) (wave) (rill) (mass)
(gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Basic Regolithic Orthic Tenosol	Principal Profile Form: Uc5.22
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A11	0 - 0.08 m	Brown (10YR5/3-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Loose consistence;
		Field pH 6 (pH meter);
A12	0.08 - 0.15 m	Brown (10YR5/3-Moist); ; Loamy sand; Weak grade of structure, 50-100 mm, Platy; Rough-ped fabric;
		Weak consistence; Field pH 6.5 (pH meter);
B21	0.15 - 0.45 m	Yellowish brown (10YR5/6-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Firm
		consistence; Other pans, Weakly cemented, Massive; Field pH 6.8 (pH meter);
B22	0.45 - 0.83 m	Yellowish brown (10YR5/6-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Very weak
		consistence;
B23	0.83 - 1.6 m	Strong brown (7.5YR5/8-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Very weak
		consistence; Field pH 7 (pH meter);
	- m	;
	- m	;

Morphological Notes

A12	2 layer - structured - platy.
B21	3rd layer - machinery/traffic pan. Not really cemented. Medium - coarse clayey sand.
B22	Roots penetrating to about 130cm.
B23	Pindar Series?? Or Eradu.
	'Deep Good Yellow Sand.'
	(distilled) - PH in water + probe 6.1 0-8cm; 6.1 15-25cm; 6.8 40-50cm.

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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 - 0.15	4.8B 5.4H	6B	1.3H	0.33	0.07	0.04	0.05J		1.74D	
0.15 - 0.45	5.1B 5.8H	2B	1.4H	0.34	<0.02	0.03			1.78D	
0.45 - 0.83	6B 6.5H	2B	1.4A	0.6	0.03	0.04			2.07D	
0.9 - 1.1	6.1B 6.7H	2B	0.73A	0.87	0.02	0.05			1.67D	

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 - 0.15		0.47D		130B	0.033E			89.5I 2
0.15 - 0.45		0.12D		38B	0.012E			82I 2
0.45 - 0.83		0.06D		26B	0.007E			81.5I 2.5
0.9 - 1.1		0.03D		25B	0.006E			81.5I 3.5

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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 (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
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
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded

P10_NR_Z Silt (%) - Not recorded

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