

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1422 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:
Date Desc.: 22/02/91 **Elevation:** No Data
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6783413 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 311854 Datum: AGD84 **Drainage:** Well drained

Geology

ExposureType: Auger boring **Conf. Sub. is Parent. Mat.:** No Data
Geol. Ref.: No Data **Substrate Material:** No Data

Land Form

Rel/Slope Class: Undulating plains <9m 3-10% **Pattern Type:** No Data
Morph. Type: Simple-slope **Relief:** No Data
Elem. Type: No Data **Slope Category:** No Data
Slope: 2 % **Aspect:** No Data

Surface Soil Condition Loose

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Bleached-Mottled Dystrophic Yellow Chromosol **Principal Profile Form:** Dy5.82
ASC Confidence: **Great Soil Group:** N/A
 All necessary analytical data are available.

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A1	0 - 0.12 m	Dark grey (10YR4/1-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent)
A2e	0.12 - 0.3 m	Light brownish grey (10YR6/2-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6 (pH meter); Clear change to -
A2e	0.3 - 0.7 m	Very pale brown (10YR7/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6 (pH meter); Clear change to -
B	0.7 - 1.2 m	Very pale brown (10YR7/4-Moist); , 20-50% , Distinct; Sandy light clay; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.5 (pH meter);

Morphological Notes

A1 has some organic matter, KmS
 A2e KmS very weak consistennc
 A2e KmS very weak consistence
 B has few pores in fabric, 5-10% soft Lt red segs

Observation Notes

Site Notes

lt/ pallid clay PPF Dy5.82/Dg4.82

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Observation 1

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 - 0.12	4.6B 5.6H	3B	0.7H	0.08	<0.02	0.08	0.04J		0.87D	
0 - 0.1	4.9B 5.9H	3B	0.97H	0.09	<0.02	0.03	<0.02J		1.1D	
0.12 - 0.3	4.6B 5.5H	3B	0.15H	<0.02	<0.02	<0.02	0.03J	1E	0.18D	
0.3 - 0.7	5B 5.9H	1B	0.08H	<0.02	<0.02	<0.02	0.02J		0.11D	
0.7 - 1.2	5.4B 6.1H	1B	0.38H	0.1	<0.02	<0.02	<0.02J		0.5D	

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 - 0.12		0.37D						1.3
0 - 0.1		0.39D						1.5
0.12 - 0.3		0.11D						1.1
0.3 - 0.7		0.05D						1.3
0.7 - 1.2		0.06D						4.4

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
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_CEC	CEC 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	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
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_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)

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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)