

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1408 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Rogers, Gary	Locality:
Date Desc.: 20/02/91	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6847277 AMG zone: 50	Runoff: No Data
Easting/Lat.: 382076 Datum: AGD84	Drainage: Rapidly drained

Geology

ExposureType: Existing vertical exposure	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3% **Pattern Type:** Sand plain

Morph. Type: Upper-slope	Relief: No Data
Elem. Type: No Data	Slope Category: No Data
Slope: 1 %	Aspect: No Data

Surface Soil Condition Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Acidic Arenic Brown-Orthic Tenosol	Principal Profile Form: Uc4.21
ASC Confidence:	Great Soil Group: N/A
Analytical data are incomplete but reasonable confidence.	

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A11	0 - 0.06 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains fragments; Water
		prominent) fabric; Dry; 0-2%, fine gravelly, 2-6mm, subrounded, Gravel, coarse repellent; Field pH 6 (pH meter); Abrupt change to -
A12	0.06 - 0.16 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains
		prominent) fabric; Dry; Field pH 5.5 (pH meter); Clear change to -
A2	0.16 - 0.27 m	Yellowish brown (10YR5/6-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Dry; Field pH 5.5 (pH meter); Clear change to -
B21	0.27 - 0.57 m	Yellowish brown (10YR5/8-Moist); ; Clayey fine sand; Massive grade of structure; Sandy (grains
		fragments; Field pH 5.5
		prominent) fabric; Dry; 0-2%, fine gravelly, 2-6mm, subrounded, Gravel, coarse (pH meter); Gradual change to -
B22	0.57 - 1 m	Yellowish brown (10YR5/8-Moist); ; Clayey fine sand; Massive grade of structure; Sandy (grains
		fragments; Field pH 5.5
		prominent) fabric; Dry; 0-2%, fine gravelly, 2-6mm, subrounded, Gravel, coarse (pH meter); Gradual change to -
B23	1 - 1.4 m	Yellowish brown (10YR5/8-Moist); ; Clayey fine sand; Massive grade of structure; Sandy (grains
		fragments; Field pH 5.5
		prominent) fabric; Dry; 0-2%, fine gravelly, 2-6mm, subrounded, Gravel, coarse (pH meter); Gradual change to -
B24	1.4 - 1.85 m	Brownish yellow (10YR6/8-Moist); ; Clayey fine sand; Massive grade of structure; Sandy (grains
		fragments; Field pH 5.5
		prominent) fabric; Dry; 0-2%, fine gravelly, 2-6mm, subrounded, Gravel, coarse (pH meter);

Morphological Notes

A11	some fines/grit
A12	some fines/grit
A2	some fines/grit
B21	some qz gr, fabric has few pores mostly angular, CFMS
B22	some qz gr, fabric has few pores mostly angular, CFMS
B23	fabric has few pores mostly angular, CFMS
B24	fabric has few pores mostly angular, CFMS

Observation Notes

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Site Notes

Acid yellow sand, upper simple slope drainage rapid-well

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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 - 0.06	4.2B 4.9H	6B	1.79H	0.36	0.05	0.06	0.47J		2.26D	
0 - 0.1	4.6B 5.4H 4.9B	4B 8B	0.5H 0.82H	0.09 0.38	0.12 0.23	0.03 0.18	0.16J 0.12J		0.74D 1.61D	
0 - 0.1	5.6H 4.6B 5.4H 4.9B	4B 8B	0.5H 0.82H	0.09 0.38	0.12 0.23	0.03 0.18	0.16J 0.12J		0.74D 1.61D	
0.06 - 0.16	5.6H 4.1B 4.7H	4B	0.44H	0.14	0.03	0.02	0.45J		0.63D	
0.16 - 0.27	4B 4.5H	3B	0.17H	0.06	0.02	<0.02	0.54J		0.26D	
0.27 - 0.57	4B 4.3H	5B	0.08H	0.06	0.04	0.02	0.66J		0.2D	
0.57 - 1	4B 4.1H	7B	0.13H	0.03	<0.02	0.02	0.6J		0.19D	
1 - 1.4	4B 4.1H	6B	0.1H	0.04	<0.02	0.03	0.59J		0.18D	
1.4 - 1.85	3.9B 4H	8B	0.14H	0.13	<0.02	0.06	0.54J		0.34D	

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 - 0.06		1.55D						2.6
7.2								
0 - 0.1		0.5D						1.5
6								
		0.84D						2
		6.1						
0 - 0.1		0.5D						1.5
6								
		0.84D						2
		6.1						
0.06 - 0.16		0.77D						2
6.7								
0.16 - 0.27		0.49D						2.4
6.3								
0.27 - 0.57		0.21D						2.2
9.1								
0.57 - 1		0.1D						2
9.4								
1 - 1.4		0.07D						1.9
9.2								
1.4 - 1.85		0.08D						3
9.1								

Laboratory Analyses Completed for this profile

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
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

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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)
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)