Project Name: **Geraldton land resources survey**
Project Code: **GTN** **Site ID:** **1425** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Rogers, Gary	**Locality:**	
Date Desc.:	04/10/89	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6811298 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	373885 Datum: AGD84	**Drainage:**	Rapidly 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: Gently undulating plains <9m 1-3% **Pattern Type:** Sand plain

Morph. Type:	Simple-slope	**Relief:**	15 metres
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition

Soft

Erosion:

Soil Classification

Australian Soil Classification:
Basic Regolithic Bleached-Orthic Tenosol

Mapping Unit: N/A
Principal Profile Form: Uc2.21
Great Soil Group: N/A

ASC Confidence:
All necessary analytical data are available.

Site

Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A11 0 - 0.05 m Very dark grey (10YR3/1-Moist); ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Water repellent; Field pH 6 (pH meter);

A11 0.05 - 0.1 m Very dark grey (10YR3/1-Moist); ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Field pH 6 (pH meter); Abrupt change to -

A12 0.1 - 0.2 m Brown (10YR5/3-Moist); ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Field pH 5.7 (pH meter); Clear change to -

A2e 0.2 - 0.3 m Brown (10YR5/3-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Field pH 5.7 (pH meter);

A2e 0.3 - 0.4 m ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Field pH 5.7 (pH meter); Clear change to -

A3 0.4 - 0.6 m Light yellowish brown (2.5Y6/4-Moist); ; Clayey sand; Single grain grade of structure; Sandy (grains prominent) fabric; Field pH 6 (pH meter);

A3 0.6 - 0.7 m Pale yellow (2.5Y7/4-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Field pH 5.7 (pH meter); Gradual change to -

B21 0.9 - 1 m Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Field pH 5.7 (pH meter); Gradual change to -

B22 1.2 - 1.3 m Brownish yellow (10YR6/8-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Field pH 5.7 (pH meter);

B23 1.5 - 1.6 m Brownish yellow (10YR6/8-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Field pH 5.7 (pH meter);

Morphological Notes

A11	MK
A11	MK
A12	MK
A2e	MK
A2e	MK

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A3	MK
A3	MK, weakly coherent
B21	MK, weakly coherent
B22	MK, weakly coherent
B23	MK

Observation Notes

Site Notes

pale yellow sand, relief 10-20m; Bulked 0-10cm , 22/2/91, 10yr 3/1, KM sand with some organic matter; hydrophobic, pH 6.2

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	5.6B 6.4H	4B	2.09H	0.29	0.08	0.05	0.02J		2.51D	
0 - 0.1	5.2B 5.9H	4B	1.79H	0.31	0.1	0.08	0.04J		2.28D	
	5.2B 5.9H		1.79H	0.31	0.1	0.08	0.04J		2.28D	
0 - 0.1	5.2B 5.9H	4B	1.79H	0.31	0.1	0.08	0.04J		2.28D	
	5.2B 5.9H		1.79H	0.31	0.1	0.08	0.04J		2.28D	
0.05 - 0.1	5.4B 6.3H	2B	2.05H	0.25	0.03	0.04	0.03J		2.37D	
0.1 - 0.2	5.1B 6H	2B	1.08H	0.15	0.05	0.09	0.06J		1.37D	
0.2 - 0.3	4.8B 5.7H	1B	0.27H	0.06	0.04	0.05	0.05J		0.42D	
0.3 - 0.4	4.8B 5.8H	1B	0.43H	0.08	0.03	0.03	0.06J		0.57D	
0.4 - 0.6	4.8B 5.3H	1B	0.18H	0.06	0.04	0.02	0.05J		0.3D	
0.6 - 0.7	4.8B 5.8H	1B	0.14H	0.04	0.02	0.03	0.05J		0.23D	
0.9 - 1	5.4B 6.2H	1B	0.32H	0.09	0.02	<0.02	<0.02J		0.44D	
1.2 - 1.3	5.6B 6.2H	2B	0.64H	0.33	0.03	0.02	<0.02J		1.02D	
1.5 - 1.6	5.8B 6.4H	1B	0.43H	0.26	0.04	0.02	0.03J		0.75D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05		0.67D									1.6
1.8											
0 - 0.1		0.52D									1.8
2.1											
		0.52D									1.8
		2.1									
0 - 0.1		0.52D									1.8
2.1											
		0.52D									1.8
		2.1									
0.05 - 0.1		0.58D									1.9
1.8											
0.1 - 0.2		0.28D									1.6
1.8											
0.2 - 0.3		0.1D									1.5
1.4											
0.3 - 0.4		0.14D									1.6
1.7											
0.4 - 0.6		0.06D									1.6
1.8											
0.6 - 0.7		0.04D									1.2
2											
0.9 - 1		0.04D									1.3
5.1											
1.2 - 1.3		0.05D									1.1
14.2											
1.5 - 1.6		0.04D									1

9.8

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
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)