Project Name: **Geraldton land resources survey**
Project Code: **GTN** **Site ID:** **1411** **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.:	6838465 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	372817 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:	No Data	**Pattern Type:**	No Data
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	No Data

Surface Soil Condition

Loose

Erosion:

Soil Classification

Australian Soil Classification:
Acidic Ferric-Petroferric Orthic Tenosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gn1.21
Great Soil Group: N/A

Site

Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A1 0 - 0.12 m Strong brown (7.5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 10-20%, fine gravelly, 2-6mm, subangular, Gravel, coarse fragments; Field pH 5.7 (pH meter); Abrupt change to -

B21 0.12 - 0.4 m Yellowish brown (10YR5/8-Moist); ; Fine sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 20-50%, fine gravelly, 2-6mm, subangular, Gravel, coarse fragments; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.7 (pH meter); Gradual change to -

B22 0.4 - 0.7 m Strong brown (7.5YR5/8-Moist); ; Fine sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 20-50%, fine gravelly, 2-6mm, subangular, Gravel, coarse fragments; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.7 (pH meter); Gradual change to -

B23 0.7 - 0.95 m Strong brown (7.5YR5/8-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Dry; 20-50%, fine gravelly, 2-6mm, subangular, Gravel, coarse fragments; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.7 (pH meter);

Morphological Notes

B21 texture code was SCLFS,
B22 texture code was SCLFS,
B23 texture code was SCLFS,

Observation Notes

Site Notes

Sand over gravel, very dry loose gravel surface condition loose (ploughed) soft (native) LAYER 1 FMSL layers 2-3 have a few pores in fabric;gravel samples of layers 2-4 layer 4 earthy- structure hard to dig; soil depth 95cm+? LT

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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 - 0.12	4.3B 5.1H	4B	0.48H	0.13	0.19	0.06	0.36J		0.86D	
0 - 0.1	4.5B 5.1H	14B	0.51H	0.22	0.28	0.34	0.23J		1.35D	
0.12 - 0.4	4.1B 4.6H	5B	0.37H	0.08	0.05	0.03	0.71J		0.53D	
0.12 - 0.4	4.1B 4.6H	5B	0.37H	0.08	0.05	0.03	0.71J		0.53D	
0.4 - 0.7	4.1B 4.6H	5B	0.58H	0.14	0.03	0.02	0.64J		0.77D	
0.4 - 0.7	4.1B 4.6H	5B	0.58H	0.14	0.03	0.02	0.64J		0.77D	
0.7 - 0.95	4B 4.5H	4B	0.36H	0.09	0.03	<0.02	1.17J		0.49D	
0.7 - 0.95	4B 4.5H	4B	0.36H	0.09	0.03	<0.02	1.17J		0.49D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.12 8.8		0.61D									3.5
0 - 0.1 8.6		0.66D									3.1
0.12 - 0.4 13.7		0.35D									4.3
0.12 - 0.4 13.7		0.35D									4.3
0.4 - 0.7 15.5		0.21D									4.4
0.4 - 0.7 15.5		0.21D									4.4
0.7 - 0.95 14.5		0.14D									4.5
0.7 - 0.95 14.5		0.14D									4.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
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)

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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)