

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1414 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Rogers, Gary	Locality:
Date Desc.: 21/02/91	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6796630 AMG zone: 50	Runoff: No Data
Easting/Lat.: 380630 Datum: AGD84	Drainage: Moderately 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: No Data	Relief: No Data
Elem. Type: Hillcrest	Slope Category: No Data
Slope: %	Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Ferric-Acidic Petroferric Brown Kandosol	Principal Profile Form: KS-Um4.23
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A11 0 - 0.09 m Sandy (grains 2-10%, medium change to -	Strong brown (7.5YR4/6-Moist); ; Fine sandy clay loam; Massive grade of structure; prominent) fabric; Dry; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.7 (pH meter); Abrupt
A12 0.09 - 0.2 m Earthy fabric; Dry; 20%, medium change to -	Strong brown (7.5YR5/6-Moist); ; Fine sandy clay loam; Massive grade of structure; Strong consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; 10-gravelly, 6-20mm, subangular, Gravel, coarse fragments; Field pH 5.5 (pH meter); Clear
B21 0.2 - 0.4 m Earthy fabric; Dry; gravelly, 6-20mm, coarse	Strong brown (7.5YR5/8-Moist); ; Fine sandy clay loam; Massive grade of structure; 2-10%, fine gravelly, 2-6mm, subangular, Gravel, coarse fragments; 20-50%, medium angular, Gravel, coarse fragments; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, fragments; Field pH 5.5 (pH meter); Gradual change to -
B22 0.4 - 0.6 m Earthy fabric; Dry; gravelly, 6-20mm, coarse	Strong brown (7.5YR5/8-Moist); ; Fine sandy clay loam; Massive grade of structure; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; 20-50%, medium angular, Gravel, coarse fragments; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, fragments; Field pH 5.5 (pH meter); Gradual change to -
B23 0.6 - 0.9 m fabric; Moderately medium gravelly, 6- Gravel, coarse	Strong brown (7.5YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Earthy moist; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; 20-50%, 20mm, angular, Gravel, coarse fragments; 20-50%, coarse gravelly, 20-60mm, angular, fragments; Field pH 5.5 (pH meter);

Morphological Notes

A11 texture code was SCLFS,
 A12 texture code was SCLFS,
 B21 texture code was SCLFS,
 B22 texture code was SCLFS,

Observation Notes**Site Notes**

Gravelly loam gravel profile 10m from road fence layer 1 has some pores; gravel samples of layers 2-5 layer 3 1.1kg
 gravel 0.6kg soil; layer 4
 2.2 kg gravel 0.47kg soil layer 5 4.05kg gravel 1.25kg

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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 - 0.09	4.6B 5.7H	6B	1.2H	0.34	0.38	0.17	0.16J		2.09D	
0 - 0.1	4.6B 5.5H	11B	1.25H	0.34	0.33	0.26	0.17J		2.18D	
0.09 - 0.2	4.3B 5H	3B	1.26H	0.32	0.16	0.05	0.34J		1.79D	
0.2 - 0.4	4.3B 4.9H	4B	1.17H	0.33	0.08	0.05	0.31J		1.63D	
0.2 - 0.4	4.3B 4.9H	4B	1.17H	0.33	0.08	0.05	0.31J		1.63D	
0.4 - 0.6	4.2B 4.9H	3B	0.96H	0.36	0.02	0.06	0.58J		1.4D	
0.4 - 0.6	4.2B 4.9H	3B	0.96H	0.36	0.02	0.06	0.58J		1.4D	
0.6 - 0.9	4.2B 4.8H	3B	0.59H	0.38	0.02	0.08	0.77J		1.07D	
0.6 - 0.9	4.2B 4.8H	3B	0.59H	0.38	0.02	0.08	0.77J		1.07D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.09		0.8D						5
12.6								
0 - 0.1		0.72D						5.5
13.5								
0.09 - 0.2		0.53D						5.4
20.1								
0.2 - 0.4		0.32D						5.5
22.5								
0.2 - 0.4		0.32D						5.5
22.5								
0.4 - 0.6		0.26D						6
24.6								
0.4 - 0.6		0.26D						6
24.6								
0.6 - 0.9		0.2D						6.2
21.9								
0.6 - 0.9		0.2D						6.2
21.9								

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 (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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

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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)