

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1426 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Rogers, Gary	Locality:
Date Desc.: 29/09/89	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6831023 AMG zone: 50	Runoff: No Data
Easting/Lat.: 305330 Datum: AGD84	Drainage: Rapidly drained

Geology

ExposureType: Soil pit	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: Sand plain
Morph. Type: Mid-slope	Relief: 5 metres
Elem. Type: No Data	Slope Category: No Data
Slope: 5 %	Aspect: No Data

Surface Soil Condition Loose

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Basic Ferric Sequi-Nodular Tenosol	Principal Profile Form: Uc2.12
ASC Confidence:	Great Soil Group: N/A
All necessary analytical data are available.	

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A11 0 - 0.05 m	Grey (10YR5/1-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; 2-10%,
(pH meter);	fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Water repellent; Field pH 6.2
	Abrupt change to -
A12 0.05 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent)
Field pH 6.5	fabric; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Water repellent;
	(pH meter); Abrupt change to -
A2e 0.1 - 0.2 m	Light grey (10YR7/2-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; 2-
meter);	10%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; Field pH 6.5 (pH meter);
A2e 0.2 - 0.3 m	Very pale brown (10YR7/3-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent)
6.5 (pH meter);	fabric; 2-10%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; Field pH
A2e 0.3 - 0.4 m	Very pale brown (10YR7/3-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent)
6.5 (pH meter);	fabric; 2-10%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; Field pH
	Abrupt change to -
B21 0.4 - 0.6 m	Very pale brown (10YR7/3-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric;
gravelly, 6-	20-50%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; 20-50%, medium
	20mm, subangular, Ironstone, coarse fragments; Field pH 6.5 (pH meter);
B22 0.6 - 0.8 m	Very pale brown (10YR7/3-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric;
gravelly, 6-	20-50%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; 20-50%, medium

-		20mm, subangular, Ironstone, coarse fragments; Field pH 7 (pH meter); Abrupt change to
B3c	1.1 - 1.3 m	Yellowish red (5YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; 20-50%,
fine gravelly, 2-		6mm, subangular, Ironstone, coarse fragments; Field pH 7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Sand over gravel, layers 1-2 have some organic matter;some fine sand grains throughout profile layer 6 B21c 30% 2-6mm, 40% 6-20mm, 5% 20-60mm subang Lt layer 7 B22c ... has a wavy boundary layer 8 has red and yellow mottles;30% 2-6mm, 30%

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.05	5.2B 5.9H	4B	1.45H	0.24	0.04	0.05	0.03J		1.78D	
0 - 0.1	5.6B 6.3H 5.6B 6.3H	4B	1H 1H	0.18 0.18	0.08 0.08	0.06 0.06	0.02J 0.02J		1.32D 1.32D	
0 - 0.1	5.6B 6.3H 5.6B 6.3H	4B	1H 1H	0.18 0.18	0.08 0.08	0.06 0.06	0.02J 0.02J		1.32D 1.32D	
0.05 - 0.1	5.2B 6H	2B	0.96H	0.14	0.03	0.09	0.04J		1.22D	
0.1 - 0.2	5.1B 6H	1B	0.23H	0.05	0.03	0.03	0.04J		0.34D	
0.2 - 0.3	5.4B 6.2H	1B	0.18H	0.04	0.03	0.05	0.02J		0.3D	
0.3 - 0.4	5.6B 6.4H	1B	0.19H	0.03	0.02	<0.02	<0.02J		0.25D	
0.4 - 0.6	5.8B 6.5H	1B	0.23H	0.05	0.02	<0.02	<0.02J		0.31D	
0.4 - 0.6	5.8B 6.5H	1B	0.23H	0.05	0.02	<0.02	<0.02J		0.31D	
0.6 - 0.8	5.8B 6.5H	1B	0.31H	0.07	0.02	<0.02	<0.02J		0.41D	
1.1 - 1.3	5.9B 6.5H	2B	1.45H	1.19	0.11	0.08	0.02J		2.83D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS	Analysis Silt
0 - 0.05 0.7		0.39D								1.5
0 - 0.1 0.5		0.34D								1.7
		0.34D 0.5								1.7
0 - 0.1 0.5		0.34D								1.7
		0.34D 0.5								1.7
0.05 - 0.1 0.7		0.26D								1.1
0.1 - 0.2 0.3		0.07D								1.5
0.2 - 0.3 0.3		0.04D								1.5
0.3 - 0.4 0.3		0.04D								1.2
0.4 - 0.6 1.1		0.05D								1.3
0.4 - 0.6 1.1		0.05D								1.3
0.6 - 0.8 0.9		0.06D								1.1
1.1 - 1.3 17.2		0.11D								3.7

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

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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)