

**Project Name:** Geraldton land resources survey  
**Project Code:** GTN **Site ID:** 1421 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Rogers, Gary	<b>Locality:</b>	
<b>Date Desc.:</b>	22/02/91	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6786297 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	310787 Datum: AGD84	<b>Drainage:</b>	Well drained

#### Geology

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

#### Surface Soil Condition Loose

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Basic Regolithic Yellow-Orthic Tenosol		<b>Principal Profile Form:</b>	Uc4.21
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A

All necessary analytical data are available.

**Site** Cultivation. Rainfed

#### Vegetation:

#### Surface Coarse

#### Profile

A1	0 - 0.13 m	Dark grey (10YR4/1-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric;
		Dry; Water repellent; Field pH 6 (pH meter); Abrupt change to -
A2	0.13 - 0.25 m	Yellowish brown (10YR5/4-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Strong consistence; Water repellent; Field pH 5.5 (pH meter); Clear change to -
B21	0.25 - 0.5 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Strong consistence; Field pH 5.7 (pH meter); Gradual change to -
B22	0.5 - 0.85 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Moderately moist; Field pH 6.5 (pH meter); Gradual change to -
B23	0.85 - 1.3 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Moist; Field pH 7 (pH meter); Gradual change to -
B24	1.3 - 1.75 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Moist; Field pH 7 (pH meter); Gradual change to -
B25	1.75 - 2 m	; Sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Field pH 7 (pH meter);

#### Morphological Notes

#### Observation Notes

#### Site Notes

level to very gently undulating good YS with A2? layer 4 mostly subangular pores earthy- layer 6 CS++ to SCL- very few soft red segs (lt)  
 layer 7 10-15% soft to firm subrounded red lt; soil depth 200cm+; LAYER 1-6 MK SAND SIZE;

**Project Name:** Geraldton land resources survey  
**Project Code:** GTN **Site ID:** 1421  
**Agency Name:** Agriculture Western Australia

**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 - 0.13	5.4B 6.2H	4B	1.4H	0.26	0.06	0.03	<0.02J		1.75D	
0 - 0.1	4.9B 5.6H	4B	0.66H	0.12	0.12	0.14	0.09J		1.04D	
0.13 - 0.25	4.4B 5.3H	2B	0.29H	0.05	0.08	<0.02	0.12J		0.43D	
0.25 - 0.5	4.7B 5.8H	1B	0.36H	0.04	0.11	<0.02	0.03J		0.52D	
0.5 - 0.85	5.2B 6.3H	1B	0.6H	0.11	0.09	<0.02	<0.02J		0.81D	
0.85 - 1.3	6.3B 7H	2B	0.74A	0.2	0.05	<0.02			1D	
1.3 - 1.75	6.1B 6.6H	2B	0.6A	0.28	0.03	<0.02			0.92D	
1.75 - 2	6B 6.8H	2B	0.6H	0.35	0.03	0.02	<0.02J		1D	

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 - 0.13		0.47D						1.3
2.9								
0 - 0.1		0.33D						4.7
4								
0.13 - 0.25		0.18D						1.3
5.3								
0.25 - 0.5		0.1D						1
7.8								
0.5 - 0.85		0.13D						1.1
10.5								
0.85 - 1.3		0.08D						1.6
10.2								
1.3 - 1.75		0.06D						1.5
11.3								
1.75 - 2		0.06D						1.8
10.5								

**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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
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

**Project Name:** Geraldton land resources survey  
**Project Code:** GTN                      **Site ID:** 1421                      **Observation** 1  
**Agency Name:** Agriculture Western Australia

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)