

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1420 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	22/02/91	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6827817 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	350587 Datum: AGD84	Drainage:	Moderately well 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:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	2 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Petrocalcic Red Kandosol		Principal Profile Form:	Gn2.13
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A	0 - 0.09 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains
		prominent) fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz,
		coarse
		fragments; Field pH 6 (pH meter); Abrupt change to -
B	0.09 - 0.26 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam, fine sandy; Massive grade of
		structure; Earthy fabric;
		Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
		Field pH 7.5
		(pH meter); Abrupt change to -
C	0.26 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam; Massive grade of structure; 2-
		10%, fine
		gravelly, 2-6mm, angular, Calcarene, coarse fragments; 20-50%, medium gravelly, 6-
		20mm, angular,
		Calcarene, coarse fragments; 20-50%, coarse gravelly, 20-60mm, angular, Calcarene,
		coarse
		fragments; Field pH 8.5 (pH meter);

Morphological Notes

A	few pores, FMSL TO LIGHT SCL
C	fractured calcrete

Observation Notes

Site Notes

RBHP - calcrete , relief 0-2m, alluvial country; bulked 0-10cm 25yr 3/4 pH 6.0 SCL- fm some grit smooth feel <2% 2-6mm ang qz subrounded Mn

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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	5.4B 6.2H	8B	2.49H	0.59	0.81	0.08	0.02J		3.97D	
0 - 0.1	6.3B 6.8H	11B	3.16H	0.67	0.72	0.09	<0.02J		4.64D	
0.09 - 0.26	6.9B 7.5H	17B	7.18E	1.42	1.4	0.24		12B	10.24D	2.00
0.26 - 0.4	8B 8.5H	38B	10.11E	2.15	1.34	0.44		14B	14.04D	3.14

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.09		0.52D						4.9
8.2								
0 - 0.1		0.41D						4.7
9.2								
0.09 - 0.26		0.44D						6.3
24.2								
0.26 - 0.4	16C	0.42D						10.4
17.8								

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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO3) - 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)

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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)