

Project Name: Bencubbin land resources survey (Merredin North)
Project Code: MDN **Site ID:** 0328 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Gerard Grealish	Locality:	
Date Desc.:	09/08/91	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6571848 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	560963 Datum: AGD84	Drainage:	No Data

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Landform

Rel/Slope Class:	No Data	Pattern Type:	Peneplain
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	1 %	Aspect:	45 degrees

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Endohypersodic Regolith Calcic Calcarosol		Principal Profile Form:	Gn1.23
ASC Confidence:		Great Soil Group:	N/A
Analytical data are incomplete but reasonable confidence.			

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A11	0 - 0.15 m	Dark brown (7.5YR3/4-Moist); ; Sandy loam; Weak grade of structure, 20-50 mm, Angular blocky; Rough-1mm) roots;
		Abrupt, Irregular change to -
A12	0.15 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Sandy loam; Weak grade of structure, 20-50 mm, Angular blocky; fine (0-1mm)
		Rough-ped fabric; Moderately moist; Firm consistence; Field pH 9 (pH meter); Many, very roots; Abrupt, Wavy change to -
B21	0.5 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Fine sandy loam; Massive grade of structure; Smooth-ped fabric; roots; Abrupt,
		Moderately moist; Weak consistence; Field pH 9 (pH meter); Common, very fine (0-1mm) Wavy change to -
B22	0.8 - 1.2 m	Yellowish red (5YR5/6-Moist); ; Fine sandy clay loam; Massive grade of structure; Smooth-ped fabric; 1mm) roots;
		Moderately moist; Very weak consistence; Field pH 9.5 (pH meter); Few, very fine (0-

Morphological Notes

A11	10% CLAY
A12	15% CLAY
B21	20% CLAY
B22	25% CLAY

Observation Notes

Site Notes

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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				%
0.01 - 0.05	7.1B 7.7H	11B	5.88A	0.38	1.07	0.09			7.42D	
0.2 - 0.25	8B 8.7H	9B	5.46E	0.77	0.64	0.06		8B	6.93D	0.75
0.6 - 0.65	8B 8.7H	16B	5.3E	1.36	0.7	0.21		9B	7.57D	2.33
1 - 1.05	8.2B 9.4H	77B	2.35E	1.79	1.2	3.84		9B	9.18D	42.67

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0.01 - 0.05		0.66D		140B				6.8
10.9								
0.2 - 0.25	2C	0.15D		62B				6
16.5								
0.6 - 0.65	7C	0.13D		59B				9.5
19.1								
1 - 1.05	19C	0.1D		50B				17.6
7.3								

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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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	
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 (CaCO ₃) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct

6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity

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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)