

Project Name: Bencubbin land resources survey (Merredin North)
Project Code: MDN **Site ID:** 0324 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Gerard Grealish	Locality:	
Date Desc.:	06/08/91	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6634970 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	577674 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:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition

Erosion

Soil Classification

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

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.06 m	Dark reddish brown (5YR3/3-Moist); ; Clayey sand; Moderate grade of structure, 20-50 mm, Platy;
		Rough-ped fabric; Dry; Firm consistence; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;
		Diffuse, Wavy change to -
B21	0.06 - 0.4 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky;
		Rough-ped fabric; Dry; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft
		segregations; Soil matrix is Highly calcareous; Field pH 9 (pH meter); Many, very fine (0-1mm) roots;
		Gradual, Irregular change to -
B22	0.4 - 1.5 m	Red (2.5YR4/6-Moist); ; Clay loam, sandy; Moderate grade of structure, 20-50 mm, Subangular blocky;
		Rough-ped fabric; Dry; Very firm consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft
		segregations; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Fragments; Soil matrix is Highly
		calcareous; Field pH 9.5 (pH meter); Few, fine (1-2mm) roots;

Morphological Notes

A1	8% CLAY
B21	25% CLAY
B22	32% CLAY--PALLIDIC MATER-IAL CEMENTED TOGETHER BYCALCIUM CARBONATE BELOW110CM

Observation Notes

Site Notes

Beacon Rock rd--valley floor--pH:8.5 @ 3cm-9.0 @ 25cm-9.5 @ 75cm- 9.5 @ 150cm

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0.01 - 0.05	7B 7.9H	6B	8.77A	1.98	0.97	0.16			11.88D	
0.15 - 0.19	7.1B 8.2H	6B	9.04A	1.84	0.86	0.26			12D	
0.9 - 0.94	8.2B 9.3H	24B	7.54E	5.18	1.16	3.3		18B	17.18D	18.33

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
0.01 - 0.05 14.4		0.94D		86B						10
0.15 - 0.19 21.6	<2C	0.3D		54B						6.5
0.9 - 0.94 28.9	8C	0.12D		47B						14

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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
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
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)

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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)