

Project Name: Bencubbin land resources survey (Merredin North)
Project Code: MDN **Site ID:** 0332 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Gerard Grealish
Date Desc.: 09/08/91
Map Ref.:
Northing/Long.: 6566554 AMG zone: 50
Easting/Lat.: 561067 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Landform

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Peneplain
Relief: No Data
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
 Vertic Pedal Calcic Calcarosol
ASC Confidence:
 Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Ug5.22
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.15 m	Brown (7.5YR4/2-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; Field pH 8.5 (pH meter); Abundant, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.15 - 0.4 m	Brown (7.5YR5/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Field pH 9.5 (pH meter); Many, very fine (0-1mm) roots; Diffuse change to -
B22	0.4 - 0.6 m	Brown (7.5YR5/4-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Rigid consistence; 20-50%, Quartz, coarse fragments; Field pH 9.5 (pH meter); Common, very fine (0-1mm) roots;

Morphological Notes

A1 50% CLAY
 B21 GRITTY--ANGULAR QUARTZ FRAGMENTS
 B22 ANGULAR QUARTZ FRAGMENTS

Observation Notes

Site Notes

Project Name: Bencubbin land resources survey (Merredin North)
Project Code: MDN **Site ID:** 0332 **Observation** 1
Agency Name: Agriculture Western Australia

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	7.6B 8.2H	15B	15.06E	3.04	1.56	0.19		22B	19.85D	0.86

0.2 - 0.25	7.8B 8.4H	23B	14.16E	6.04	0.34	0.71		25B	21.25D	2.84
0.5 - 0.5	8.1B 8.7H	34B	9.15E	7.83	0.24	1.92		22B	19.14D	8.73

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 31.6	<2C	0.23D		56B				17.3
0.2 - 0.25 40.1	<2C	0.32D		74B				12.9
0.5 - 0.5 42.1	2C	0.23D		56B				9.2

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 (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
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)