

Project Name: Bencubbin land resources survey (Merredin North)
Project Code: MDN **Site ID:** 0322 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Gerard Grealish
Date Desc.: 06/08/91
Map Ref.:
Northing/Long.: 6635080 AMG zone: 50
Easting/Lat.: 572400 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: 2 %
Pattern Type: Peneplain
Relief: No Data
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification: Acidic Regolithic Orthic Tenosol
ASC Confidence: Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.03 m Very dark greyish brown (10YR3/2-Moist); ; Sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Water repellent; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -
B1 0.03 - 0.2 m Dark yellowish brown (10YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; Water repellent; Field pH 6 (pH meter); Common, medium (2-5mm) roots; Diffuse, Irregular change to -
B2 0.2 - 2.2 m Brownish yellow (10YR6/6-Moist); Mottles, 0-2% , 5-15mm, Distinct; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; Field pH 5.5 (pH meter); Few, fine (1-2mm) roots;

Morphological Notes

A1 4% CLAY--PH 6.5 @ 3CM
B1 5% CLAY--PH 6.0 @ 15CM
B2 10% CLAY--PH 5.5 @ 50CM 15% CLAY--PH 4.5 @ 100CM PH 6.0 @ 220CM

Observation Notes

Site Notes

Beacon Rock rd--Deep yellow sandplain

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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 - 0.04	4.5B	29B	1.66H	0.73	0.43	0.29	0.43J		3.11D	

0.1 - 0.14	4.8H 4.1B 4.7H	5B	0.38H	0.13	0.04	0.04	0.64J	0.59D
0.85 - 0.89	3.8B 4.1H	5B	0.19H	0.1	0.03	<0.02	1.04J	0.33D

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 - 0.04 13		1.46D		57B				5.2
0.1 - 0.14 13.8		0.78D		33B				3.9
0.85 - 0.89 22.1		0.11D		27B				4.3

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
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
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)