

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0010 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand
Date Desc.: 03/03/95
Map Ref.:
Northing/Long.: 6591000 AMG zone: 50
Easting/Lat.: 435800 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: Upper-slope
Elem. Type: Hillslope
Slope: 2 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition Soft

Erosion (wind);

Soil Classification

Australian Soil Classification:
 Acidic Mesotrophic Yellow Kandosol
ASC Confidence:
 Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.15 m Dark greyish brown (10YR4/2-Moist); ; Loamy fine sand; Single grain grade of structure;
 Dry; Strongly water repellent, "Field pH 5.5 (pH meter); Clear change to -
 A2 0.15 - 0.3 m Brownish yellow (10YR6/6-Moist); ; Sandy loam; <2 mm, ; Dry; Field pH 4.4 (pH meter);
 Gradual change to -
 B1 0.3 - 0.9 m Yellow (10YR7/6-Moist); ; Sandy loam; <2 mm, ; Dry; Field pH 5.2 (pH meter); Gradual
 change to -
 B2 0.9 - 1.2 m Brownish yellow (10YR6/8-Moist); ; Sandy clay loam; <2 mm, ; Dry; Common (10 - 20 %),
 Ferruginous, ,
 Soft segregations; Gradual change to -
 1.2 - 1.5 m ; Sandy clay loam;

Morphological Notes

A2 Medium - Fine
 B1 Medium - Fine +

Observation Notes

Site Notes

ROLL PIA, 6 & 66 BARRY JOHNSON [marginally strongly acid from lab data]

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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 - 0.15	5.2B 6H	13B	2.22H	0.56	0.24	0.02	0.04J		3.04D	
0.15 - 0.3	3.9B	4B	0.58H	0.19	0.15	<0.02	0.32J		0.93D	

0.3 - 0.6	4.5H 4.8B 5.4H	3B	1.02H	0.27	0.11	<0.02	0.02J	1.41D
0.6 - 0.9	5.2B 5.9H	3B	1.11H	0.37	0.1	0.04	0.02J	1.62D
0.9 - 1.2	5.9B 6.5H	4B	1.01A	0.56	0.02	0.1		1.69D
1.2 - 1.5	6.1B 6.6H	5B	0.96A	0.88	0.02	0.14		2D

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 - 0.15 6.9		1.39D		160B	0.106E				2.6
0.15 - 0.3 18.2		0.16D		30B	0.014E				2.5
0.3 - 0.6 19.7		0.1D		20B	0.011E				3
0.6 - 0.9 21.5		0.1D		19B	0.01E				3.7
0.9 - 1.2 20.9		0.08D		19B	0.008E				4.8
1.2 - 1.5 20.6		0.08D		17B	0.008E				5

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
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15E1_AL	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_CA salts	salts
15E1_K	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_MN	salts
15E1_NA	Exchangeable bases (Mn ²⁺) by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15L1_a	Sum of Bases
Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4_NR	Electrical conductivity or soluble salts - Not recorded
4B_AL_NR	pH of soil - Not recorded
4B1	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
6A1_UC	pH of 1:5 soil/0.01M calcium chloride extract - direct
	Organic carbon (%) - Uncorrected Walkley and Black method

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7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
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)