

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0523 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand
Date Desc.: 07/03/97
Map Ref.:
Northing/Long.: 6684540 AMG zone: 50
Easting/Lat.: 509607 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly drained

Geology

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

Landform

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Firm

Erosion

Soil Classification

Australian Soil Classification:
 Haplic Petrocalcic Red Kandosol
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 - 0.1 m Dark reddish brown (2.5YR3/4-Moist); ; Clayey sand; Moist; Field pH 5.8 (pH meter);
 Clear, Smooth
 change to -
 A2 0.1 - 0.25 m Dark red (2.5YR3/6-Moist); ; Sandy loam; Moist; Field pH 6.1 (pH meter); Diffuse,
 Irregular change to -
 B1t 0.25 - 0.4 m Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Field pH 5.8
 (pH meter);
 Diffuse, Irregular change to -
 B2t 0.4 - 0.6 m Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Very many
 (50 - 100 %), , , ;
 Field pH 6.1 (pH meter); Abrupt, Smooth change to -
 Cmk 0.6 - m ; Calcrete, Very strongly cemented, Massive;

Morphological Notes

A1 m-k

Observation Notes

Site Notes

Print 16, 17, 18 slide 23,24. Root up to 60cm. 2-10mm diameter

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
m		dS/m			Cmol (+)/kg			%
0 - 0.1	6.2B 7.2H	5B	4.01A	0.95 0.09	0.53		5.58D	
0.1 - 0.25	6.9B 7.7H	7B	8.68A	1.01 0.15	0.4		10.24D	

0.25 - 0.4	7.4B 7.7H	60B	8.8A	1.7	0.34	0.32			11.16D	
0.4 - 0.6	7.8B 8.1H	180B	8.33E	2.64	0.44	0.5		12B	11.91D	4.17

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.1 7.5		0.6D		82B	0.047E							3.1
0.1 - 0.25 13.4		0.7D										4.6
0.25 - 0.4 20.2		0.33D										4.9
0.4 - 0.6 18.6	<2C	0.21D										8.3

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 (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
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_MG soluble salts	soluble salts
15C1_NA soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15L1_a Sum of Cations	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15N1_a	Sum of Bases
15N1_b	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
18A1_NR	and measured clay
19B_NR	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	Bicarbonate-extractable potassium (not recorded)
4B1	Calcium Carbonate (CaCO ₃) - Not recorded
6A1_UC	Electrical conductivity or soluble salts - Not recorded
7A1	pH of soil - Not recorded
9A3	pH of 1:5 soil/0.01M calcium chloride extract - direct
9B_NR	Organic carbon (%) - Uncorrected Walkley and Black method
	Total nitrogen - semimicro Kjeldahl, steam distillation
	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
	Bicarbonate-extractable phosphorus (not recorded)

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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)