

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0188 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand
Date Desc.: 12/08/96
Map Ref.:
Northing/Long.: 6708443 AMG zone: 50
Easting/Lat.: 448121 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: No Data
Elem. Type: Hillslope
Slope: 2 %
Pattern Type: Rises
Relief: No Data
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
 Haplic Petrocalcic Red 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 - 0.05 m	Dark reddish brown (5YR3/3-Moist); ; Loam; , Granular; Dry; Water repellent; Field pH 7.6 (pH meter);
		Clear, Wavy change to -
B1	0.05 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); ; Fine sandy clay loam; , Polyhedral; Dry; Soil matrix is Slightly
		calcareous; Field pH 7.6 (pH meter); Diffuse change to -
B2tc	0.2 - 0.4 m	Dark red (2.5YR3/6-Moist); ; , Polyhedral; Dry; 50-90%, coarse fragments; Soil matrix is Highly
		calcareous; Field pH 8.3 (pH meter); Diffuse change to -
B2c	0.4 - 0.75 m	Dark red (2.5YR3/6-Moist); ; Clay loam, sandy; Massive grade of structure; Dry; 20-50%, subrounded,
		Calcrete, coarse fragments; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm), Nodules; Soil
		matrix is Highly calcareous; Field pH 8.7 (pH meter); Sharp change to -
Cm	0.75 - m	; Calcrete, Strongly cemented, Massive;

Morphological Notes

Observation Notes

Site Notes

Red shallow sandy duplex. S/Clay/Pan?. neutral [EC against layers appear 10 x too high compared to 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 - 0.05	6.8B 7.6H	9B	11.09A	2.6	1.09	0.2			14.98D	
0.05 - 0.2	7.6B	14B	10.57E	2.454	1.52	0.51		17B	15.054D	3.00

0.2 - 0.4	8.4H 8.1B	21B	9.24E	3.69	1.65	0.2		16B	14.78D	1.25
0.4 - 0.75	8.8H 8.2B 8.9H	29B	6.1E	4.96	1.84	0.39		14B	13.29D	2.79

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	% Clay	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05		2.03D		230B	0.136E						8
13.7											
0.05 - 0.2		1.24D									10.7
21.1											
0.2 - 0.4	7C	0.55D									15.4
27.9											
0.4 - 0.75	17C	0.39D									14.9
26.9											

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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15C1_CA	Exchangeable bases (Ca2+,Mg2+,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 (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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	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)