Project Name: Project Code: Agency Name:	Moora Wongan Hills land i MRA Site ID: Agriculture Western Austr	0513	/ Observation ID:	1	
Site Information	n				
Desc. By: Date Desc.: Map Ref.:	 Mir Frahmand _24/03/97	Locality: Elevation: Rainfall:	No Data No Data		
Northing/Long.: Easting/Lat.: Geology	6681923 AMG zone: 50 440640 Datum: AGD84	Runoff: Drainage:	No Data No Data		
ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pa Substrate Mater			
<u>Landform</u> Rel/Slope Class:	Gently undulating rises 9-30m 1-	-3%	Pattern Type:	Rises	
Morph. Type: Elem. Type: Slope:	Lower-slope No Data 3 %	Relief: Slope Category: Aspect:	No Data No Data 270 degrees		
Surface Soil Co	nation				
<u>Erosion</u> Soil Classificati	ion				
Australian Soil Cl Haplic Mesotrophic	c Yellow Kandosol	Prin	ping Unit: cipal Profile Form:	N/A N/A	
ASC Confidence Confidence level r Site Disturbanc	not specified	Grea	at Soil Group:	N/A	
Vegetation Surface Coarse	_				
Profile Morphol					
A1 0 - 0.2 m (grains prominent)	Yellowish brown (10YR5/4	,	, C	structure; Sandy	
	fabric; Dry; Field pH 6.9 (pl	H meter); Clear cha	nge to -		
B1 0.2 - 0.6 Field pH 6.7 (pH			e grade of structure;	Earthy fabric; Dry;	
	meter); Diffuse change to -				
B2 0.6 - 0.9 Field pH 6.3 (pH		-	e grade of structure;	Earthy fabric; Dry;	
	meter); Gradual change to				
B21 0.9 - 1.6 Field pH 6.5 (pH	m Yellow (10YR7/8-Moist); ; ; meter); Diffuse change to -	-	e grade of structure;	Earthy fabric; Dry;	
B22 1.6 - 2 m			e grade of structure;	Earthy fabric; Moist;	
Morphological A1 B1 B2 B21 B22 Observation No	m-k f-m f-m f-m f-m				
Site Notes					
Yellow sandy earth	1				
Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0513 Observation 1 Agency Name: Agriculture Western Australia					
Laboratory Tes	<u>t Results:</u>				
Depth pH	1:5 EC Exchangeable Ca Mg	K Na	xchangeable CEC Acidity	ECEC ESP	
m	dS/m	Cmol (+)	/kg	%	

1

0 - 0.2	5B 5.9H	5B	0.93H	0.25	0.06	<0.02	0.03J	1.25D
0.2 - 0.6	5.5B 6.4H	1B	0.73H	0.19	0.02	0.02		0.96D
0.6 - 0.9	6B 6.8H	1B	0.69A	0.29	<0.02	<0.02		1D
0.9 - 1.6	5.8B 6.5H	1B	0.53H	0.38	<0.02	<0.02		0.93D
1.6 - 2	6B 6.5H	2B	0.58A	0.45	<0.02	<0.02		1.05D

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Partie GV CS	cle Size An 5 FS	alysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.2 5.6		0.42D		110B	0.034E	E				2.5
0.2 - 0.6 11.8		0.1D								3.7
0.6 - 0.9 12.5		0.09D								4
0.9 - 1.6 13.8		0.07D								4.7
1.6 - 2 13.5		0.06D								4.5

Laboratory Analyses Completed for this profile

15_NR_AL 15_NR_BSa 15_NR_CMR 15_NR_K 15_NR_MN 15_NR_NA 15A1_CA for soluble	Aluminium Cation - meq per 100g of soil - Not recorded Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC 15A1_MG for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15E1_AL 15E1_CA salts	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K 15E1_MG 15E1_NA 15J_BASES 15L1_a	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay
15N1_a 15N1_b 18A1_NR 3_NR 4_NR 4B_AL_NR 4B1 6A1_UC 7A1 9A3	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Bicarbonate-extractable potassium (not recorded) Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour

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9B_NR 9H1	Bicarbonate-extractable phosphorus (not recorded) 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)					