

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0620 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	05/05/94	Elevation:	76 metres
Map Ref.:		Rainfall:	600
Northing/Long.:	6186795 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	650844 Datum: AGD84	Drainage:	Imperfectly drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Sand plain
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition

Erosion: (wind); (scald) (sheet) (rill) (mass) (gully)
(stbank) (tunnel)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Dy5.84
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse No surface coarse fragments; 0-2%, , subrounded, Ferricrete

Profile

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Abrupt change to -
A21	0.1 - 0.15 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Abrupt change to -
A22	0.15 - 0.18 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Abrupt change to -
A23	0.18 - 0.4 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Sharp change to -
B1	0.4 - 0.75 m	Brownish yellow (10YR6/8-Moist); , 20-50% , 5-15mm, Prominent; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Strong consistence; 10-20%, cobbly, 60-200mm, subangular, Ferricrete, coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Abrupt change to -
2A21b	0.75 - 0.8 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Very many (50 - 100 %), Ferruginous, Medium (2 - 6 mm), Concretions; Sharp change to -
2B21b	0.8 - 1.6 m	Olive yellow (2.5Y6/6-Moist); , 10-20% , 15-30mm, Distinct; Clay loam, sandy; Strong

grade of structure,		5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm
consistence; Very few (0 - 2		%), Ferruginous, Fine (0 - 2 mm), Concretions; Soil matrix is Slightly calcareous; Clear
change to -		
2B22b 1.6 - 2 m		Olive yellow (2.5Y6/8-Moist); , 10YR72, 20-50% , 15-30mm, Distinct; Light medium clay;
Moderate grade		of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm
consistence; 2-		10%, coarse gravelly, 20-60mm, subangular, Siltstone, coarse fragments; Soil matrix is
Slightly		calcareous; Abrupt change to -
R	2 - m	Rock

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Morphological Notes

Observation Notes

Site Notes

Wel 3: 2 pits adjacent to one another. Bo

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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 - 0.1	5.1B 6.1H	8B	3.44H	0.82	0.12	0.18	0.02J		4.56D	
0.1 - 0.15	4.8B 5.6H	2B	0.35H	0.11	<0.02	0.04	0.18J		0.51D	
0.15 - 0.4	4.9B 6.1H	2B	0.43H	0.15	<0.02	0.05	0.14J		0.64D	
0.4 - 0.75	5.7B 5.9H	8B	0.5H	0.68	0.13	0.35	0.03J		1.66D	
0.75 - 1.6	6.8B 7.8H	28B	1.71A	8.55	1.06	4.09		14J	15.41D	29.21
1.6 - 2	6.9B 7.9H	47B	1.86A	11.26	1.15	9.06		22J	23.33D	41.18

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		1.98D		100B	0.141E			0.6
0.1 - 0.15		0.32D		25B	0.018E			0.7
0.15 - 0.4		0.35D		28B	0.021E			0.4
0.4 - 0.75		0.3D		68B	0.014E			3.3
0.75 - 1.6		0.18D		43B	0.016E			1.4
1.6 - 2		0.05D		60B	0.006E			7.2

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_CMR	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_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
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
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
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

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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)