

**Project Name:** Jerramungup soils inventory (=JER LRS)  
**Project Code:** JSI **Site ID:** 0512 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Tim Overheu	<b>Locality:</b>	
<b>Date Desc.:</b>	16/03/94	<b>Elevation:</b>	70 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	480
<b>Northing/Long.:</b>	6263000 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	704650 Datum: AGD84	<b>Drainage:</b>	Moderately well drained

**Geology**

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

**Land Form**

**Rel/Slope Class:** Gently undulating plains <9m 1-3% **Pattern Type:** Sand plain

<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition** Loose

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

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
N/A		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

**Site** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse** 20-50%, medium gravelly, 6-20mm, subrounded, Gravel; 0-2%, , subrounded, Gravel

**Profile**

Ap	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure;
Ferruginous, Medium (2		Sandy (grains prominent) fabric; Dry; Loose consistence; Common (10 - 20 %), -6 mm), Concretions; Water repellent;
A21	0.12 - 0.5 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sand; Single grain grade of structure;
Sandy (grains		prominent) fabric; Moderately moist; Loose consistence; Very many (50 - 100 %),
Ferruginous, Coarse		(6 - 20 mm), Concretions;
B21	0.5 - 0.8 m	Brownish yellow (10YR6/8-Moist); , 10YR72, 20-50% , 5-15mm, Distinct; Light medium
clay; Weak grade		of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm
consistence; Very		few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions;
B22	0.8 - 1.1 m	Yellowish brown (10YR5/8-Moist); , 5YR66, 20-50% , 5-15mm, Distinct; Light medium
clay; Massive		grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm consistence;

**Morphological Notes**

B22 MOTTLES ALSO 10YR/7/2.

**Observation Notes**

**Site Notes**

Notes; quite possible that between sites 510 and 512 very shallow crabhole gilgai was present - this may explain some of the calcareous material present and the few small depressions around the area. Profile; 700m after last site. Mound gra

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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 - 0.12	5B 6H	8B	1.9H	0.42	0.19	0.21	0.11J		2.72D	
0.12 - 0.5	5.3B 6.5H	2B	0.84H	0.36	0.07	0.06	0.03J		1.33D	
0.5 - 0.8	6B 6.7H	9B	1.2A	3.37	0.38	0.58		6J	5.53D	9.67
0.8 - 1.1	5.5B 6.3H	12B	0.32H	1.98	0.1	0.8	<0.02J		3.2D	

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 - 0.12		1.19D		110B	0.087E			2.3
0.12 - 0.5		0.36D		28B	0.025E			2.2
0.5 - 0.8		0.17D		23B	0.013E			4.7
0.8 - 1.1		0.09D		16B	0.006E			4.7

**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_CM	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
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)

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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)