

**Project Name:** Jerramungup soils inventory (=JER LRS)  
**Project Code:** JSI **Site ID:** 0618 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Tim Overheu	<b>Locality:</b>	
<b>Date Desc.:</b>	05/05/94	<b>Elevation:</b>	130 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	550
<b>Northing/Long.:</b>	6190724 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	651424 Datum: AGD84	<b>Drainage:</b>	Poorly 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

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Sand plain
<b>Morph. Type:</b>	Closed Depression	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Drainage depression	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

#### Surface Soil Condition

**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>	Dy5.84
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

**Site** Limited clearing, for example selective logging

#### Vegetation:

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

#### Profile

A1	0 - 0.1 m	, 0-0% ; Loam; Dry; Loose consistence;
A21	0.1 - 0.2 m	Light grey (10YR7/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy
	(grains)	prominent) fabric; Dry; Loose consistence;
A22	0.2 - 0.4 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, Coarse
	(6 - 20 mm),	Concretions;
A23	0.4 - 0.55 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;
B21	0.55 - 0.8 m	Yellow (10YR7/8-Moist); Mottles, 20-50% , 5-15mm, Distinct; Light medium clay;
	Moderately moist; Firm	consistence; 0-2%, medium gravelly, 6-20mm, subangular, Unconsolidated material
	(unidentified),	coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions;
B22	0.8 - 1.2 m	Brownish yellow (10YR6/6-Moist); Mottles, 20-50% , 15-30mm, Distinct; Light medium
	clay; Massive	grade of structure; Sandy (grains prominent) fabric; Dry; Very firm consistence; 10-20%,
	medium	gravelly, 6-20mm, angular, Unconsolidated material (unidentified), coarse fragments;
	Very few (0 - 2 %),	Ferruginous, Fine (0 - 2 mm), Concretions;
B23	1.2 - 1.6 m	Yellowish brown (10YR5/6-Moist); Mottles, 10YR72, 20-50% , 15-30mm, Distinct; Clay
	loam, sandy;	Massive grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; 10-
	20%, medium	gravelly, 6-20mm, angular, Siltstone, coarse fragments;

#### Morphological Notes

### **Observation Notes**

#### **Site Notes**

The soils can be described as heavier textured colluvial and alluvial soils. The closer to the pallinup river the progressively heavier textured the soils become. Many of the farms erosion gullies suggest that the

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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	5.6B 6.6H	7B	4.14A	1.17	0.11	0.33		5J	5.75D	6.60
0.1 - 0.2	5.6B 6.6H	2B	0.52A	0.23	0.06	0.05		1J	0.86D	5.00
0.2 - 0.55	6.2B 7.3H	3B	0.65A	0.36	0.14	0.13		1J	1.28D	13.00
0.55 - 0.8	6.4B 7.5H	8B	3.42A	2.76	1.17	0.85		8J	8.2D	10.63
0.8 - 1.2	6.6B 7.3H	16B	2.65A	2.71	0.97	1.17		6J	7.5D	19.50
1.2 - 1.6	6.9B 7.6H	27B	2.37A	2.64	1.42	1.29		6J	7.72D	21.50

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		2.68D		110B	0.146E			1.2
4.9								
0.1 - 0.2		0.2D		23B	0.016E			0.2
4								
0.2 - 0.55		0.13D		17B	0.012E			0.1
5.7								
0.55 - 0.8		0.57D		26B	0.034E			0.8
43.2								
0.8 - 1.2		0.12D		31B	0.008E			1.2
56.4								
1.2 - 1.6		0.08D		36B	0.004E			2.7
47.9								

**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
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
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)
P10_NR_C	Clay (%) - Not recorded

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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)