

**Project Name:** Jerramungup soils inventory (=JER LRS)  
**Project Code:** JSI **Site ID:** 1154 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Tim Overheu	<b>Locality:</b>	
<b>Date Desc.:</b>	16/11/94	<b>Elevation:</b>	330 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	400
<b>Northing/Long.:</b>	6259030 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	676051 Datum: AGD84	<b>Drainage:</b>	Moderately well drained

#### Geology

<b>ExposureType:</b>	Existing vertical exposure	<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>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Sand plain
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<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<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
Basic Arenic Bleached-Orthic Tenosol		<b>Principal Profile Form:</b>	Dy5.82
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.			

**Site** Cultivation. Rainfed

#### Vegetation:

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

#### Profile

Ap	0 - 0.06 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy
		(grains prominent) fabric; Dry; Loose consistence; Field pH 5.8 (pH meter); Abrupt change to -
A21	0.06 - 0.48 m	Very pale brown (10YR7/4-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent)
		fabric; Dry; Loose consistence; Field pH 6.1 (pH meter); Abrupt change to -
A3	0.48 - 0.99 m	Brownish yellow (10YR6/8-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Field pH 6.1 (pH meter); Clear change to -
B21	0.99 - 1.56 m	Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Distinct; Clayey sand; Massive
		grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Field pH 6.3
		(pH meter);

#### Morphological Notes

Ap	Grey loamy sand
A21	Conspicuously bleached
A3	YELLOW SAND
B21	YELLOW/RED SANDY CLAY, Also other mottles in horizon, FMD 10YR7/4 R

#### Observation Notes

#### Site Notes

Gently undulating sandplain with numerous small swamps. Soil is deep white sand that has been deposited over an older landscape.

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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 - 0.06	6B 6.6H	6B	1.6A	0.7	0.31	0.09			2.7D	
0.06 - 0.48	5B 5.8H	1B	0.1H	0.05	0.04	0.05	0.04J		0.24D	
0.48 - 0.99	6.2B 6.9H	2B	0.67A	0.97	0.14	0.1			1.88D	
0.99 - 1.5	6.2B 7.2H	4B	0.74A	2.2	0.19	0.36			3.49D	

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 - 0.06		0.74D		55B	0.05E	0.06A		1.1
0.06 - 0.48		0.05D		<10B	0.006E	0.06A		2.4
0.48 - 0.99		0.05D		12B	0.008E	0.09A		1.3
0.99 - 1.5		0.07D		16B	0.01E	0.09A		1.9

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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
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
17A1	Total Potassium - X-ray fluorescence
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)

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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)