

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1063 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	28/09/94	Elevation:	356 metres
Map Ref.:		Rainfall:	340
Northing/Long.:	6333981 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	753383 Datum: AGD84	Drainage:	Moderately well 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: Gently undulating plains <9m 1-3% **Pattern Type:** Plain

Morph. Type:	Simple-slope	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Dy5.43
ASC Confidence:		Great Soil Group:	Solodized

solonetz

Confidence level not specified

Site Cultivation. Rainfed

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

Ap	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy
		(grains prominent) fabric; Dry; Loose consistence; Strongly water repellent, "Field pH 6.3 (pH meter);
		Abrupt change to -
A21	0.15 - 0.35 m	Pale brown (10YR6/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy
		(grains prominent) fabric; Dry; Loose consistence; Field pH 7 (pH meter); Abrupt change to -
B1	0.35 - 0.65 m	Yellow (2.5Y7/6-Moist); Mottles, 7.5YR56, 10-20% , 5-15mm, Distinct; Light medium clay;
		Strong grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Firm consistence; Soil
		matrix is Slightly calcareous; Field pH 9 (pH meter); Clear change to -
B21	0.65 - 0.8 m	Yellowish brown (10YR5/6-Moist); Mottles, 7.5YR56, 10-20% , 5-15mm, Distinct; Light
		medium clay;
		Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm
		consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9.2 (pH meter);
		Clear change to -
B22tk	0.8 - 1.4 m	Brownish yellow (10YR6/6-Moist); , 10YR74, 2-10% , 0-5mm, Faint; Light medium clay;
		Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm
		consistence; 2-10%, cobbly, 60-200mm, subrounded, Limestone, coarse fragments; Few (2 - 10 %),
		Calcareous, Medium (2 - 6 mm), Concretions; Field pH 9.7 (pH meter);

Morphological Notes

B1 2ND MOTTLE=CMF 10YR 7/4; 2ND STRUCTURE=PM4COS; B1 WEAKLY DOMED.

B21 CUTANS PRESENT IN B2/1 HORIZON; 2ND MOTTLE = CMF 10YR 7/6

Observation Notes

Site Notes

Very gently inclined slopes over a level to gently undulating plain: hardsetting (siliceous) grey clay, capillary fringe of lime deposited at
14/15cm - b21 calcareous channels

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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 - 0.15	5B 6H	4B	1.6H	0.31	0.12	0.05	0.05J		2.08D	
0.15 - 0.35	5.5B 6.6H	2B	0.71A	0.14	0.05	0.08		<1J	0.98D	
0.35 - 0.65	6.7B 8H	12B	3A	3.6	0.32	1.9		8J	8.82D	23.75
0.65 - 0.8	7.6B 9H	13B	3.2E	5.4	0.46	3.7		15J	12.76D	24.67
0.8 - 1.4	7.9B 9.4H	46B	2.8E	5.5	0.56	5		16J	13.86D	31.25

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt %
0 - 0.15		0.7D		69B	0.046E			2.6
2.9								
0.15 - 0.35		0.12D		17B	0.009E			2.6
1.6								
0.35 - 0.65	<2C	0.18D		23B	0.018E			3.7
38.4								
0.65 - 0.8	<2C	0.06D		20B	0.008E			4.4
44.6								
0.8 - 1.4	3C	0.06D		21B	0.007E			5.3
49.5								

Laboratory Analyses Completed for this profile

12C1	Calcium chloride extractable boron - manual colour
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_CMV	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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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

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15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
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)
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)