

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0146 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Tim Overheu	Locality:
Date Desc.: 12/03/93	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6305000 AMG zone: 50	Runoff: No Data
Easting/Lat.: 778600 Datum: AGD84	Drainage: Moderately well drained

Geology

ExposureType: Soil pit	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: Plain
Morph. Type: Flat	Relief: No Data
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: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy5.22
	Great Soil Group: N/A

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

Ap	0 - 0.1 m	Brown (7.5YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Strongly water repellent, "Field pH 7.1 (pH meter);
A21	0.1 - 0.12 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Clay loam, sandy; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Water repellent; Field pH 6.9 (pH meter);
B1	0.12 - 0.45 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Sandy light clay; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm consistence; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 7.1 (pH meter);
B21t	0.45 - 1.1 m	Reddish yellow (7.5YR6/6-Moist); Mottles, 7.5YR44, 2-10% , 15-30mm, Prominent; Sandy light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Field pH 6.9 (pH meter);
B22t	1.1 - 1.6 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR66, 10-20% , 15-30mm, Prominent; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; Field pH 7.1 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Yellow gravelly soil; very sandplain like. B21 very well structured, crumbly size3 sub angular blocky.

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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	4.7B 5.6H	9B	3.3H	0.78	0.54	0.11	0.12J		4.73D	
0.1 - 0.12	5B 5.9H	4B	2.34H	0.96	0.2	0.12	0.04J		3.62D	
0.12 - 0.45	5.3B 6.3H	4B	2.5H	1.32	0.13	0.12	<0.02J		4.07D	
0.45 - 1.1	5.2B 5.8H	16B	1.38H	3.18	0.08	0.97	<0.02J		5.61D	
1.1 - 1.6	7B 8.1H	25B	0.25E	1.66	0.2	2.05		6J	4.16D	34.17

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		1.62D		140B	0.101E			8.5
9.4								
0.1 - 0.12		0.69D		30B	0.039E			7.4
17.2								
0.12 - 0.45		0.6D		30B	0.041E			6.9
21.2								
0.45 - 1.1		0.16D		24B	0.009E			4.4
26.1								
1.1 - 1.6	<2C	0.05D		18B	0.002E			3.4
14.9								

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_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
19B_NR	Calcium Carbonate (CaCO3) - 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

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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)