Project Name: **Jerramungup soils inventory (=JER LRS)**
Project Code: **JSI** **Site ID:** **1141** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Tim Overheu	**Locality:**	
Date Desc.:	22/11/94	**Elevation:**	120 metres
Map Ref.:		**Rainfall:**	500
Northing/Long.:	6199669 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	676814 Datum: AGD84	**Drainage:**	Very poorly 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:	Level plain <9m <1%	**Pattern Type:**	Plain
Morph. Type:	Closed Depression	**Relief:**	5 metres
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition Cracking, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Episodic-Endoacidic Massive Grey Vertosol **Principal Profile Form:** N/A
ASC Confidence: **Great Soil Group:** N/A
All necessary analytical data are available.

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subrounded, Gravel; 2-10%, , subrounded, Limestone

Profile

Ap 0 - 0.07 m Dark brown (10YR3/3-Moist); , 0-0% ; Clay loam, fine sandy; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; Field pH 6.6 (pH meter); Abrupt change to -

B21 0.07 - 0.32 m Pale red (2.5YR6/2-Moist); Mottles, 10YR68, 2-10% , 0-5mm, Distinct; Light medium clay; Strong grade of structure, 100-200 mm, Prismatic; Rough-ped fabric; Dry; Very firm consistence; Field pH 7.4 (pH meter); Gradual, Tongued change to -

B22 0.32 - 0.6 m Yellowish brown (10YR5/8-Moist); , 2.5YR48, 2-10% , 5-15mm, Distinct; Light medium clay; Strong grade of structure, 100-200 mm, Prismatic; Rough-ped fabric; Dry; Very firm consistence; Field pH 6.9 (pH meter); Gradual change to -

B21b 0.6 - 1.05 m Light brownish grey (10YR6/2-Moist); , 10YR36, 10-20% , 15-30mm, Prominent; Mottles, 10YR66, 2-10% , 15-30mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 6 (pH meter); Gradual change to -

B21b 1.05 - 1.4 m Light grey (2.5Y7/2-Moist); Mottles, 10YR36, 20-50% , 30-mm, Prominent; , 5YR58; Medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm consistence; Field pH 5.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Slope of a valley in the tarmarlup landsyystem. Gently undulating rises on the adamellite bed-rock. Deep gritty collurial clay loam.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.07	7.1B	28B	14A	7.3	2	1.9			25.2D	
0.06 - 0.41	8.5B	63B	5.2E	9.2	3.5	13		33B	30.9D	39.39
0.32 - 0.6	7.8B	180B	3.3E	8.6	2.7	15		32B	29.6D	46.88

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.07		2.29D		190B	0.206E	0.8A					7.7	36.9
0.06 - 0.41	2C	0.19D		32B	0.022E	1.6A					5.5	78.8
0.32 - 0.6	2C	0.13D		28B	0.014E	1.5A					5.7	78

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_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_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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - 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
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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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)

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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)