

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0144 **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.: | 6314300 AMG zone: 50 | Runoff: | No Data |
| Easting/Lat.: | 785700 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

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|-------------------------|-----------------------------------|----------------------|-------|
| Rel/Slope Class: | Gently undulating plains <9m 1-3% | Pattern Type: | Plain |
|-------------------------|-----------------------------------|----------------------|-------|

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|---------------------|--------------|------------------------|---------|
| Morph. Type: | Simple-slope | 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: | Dy5.42 |
| | | Great Soil Group: | N/A |

Site Limited clearing, for example selective logging

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

| | | |
|-------|-------------|--|
| Ap | 0 - 0.1 m | Brown (10YR4/3-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Water repellent; Field pH 6 (pH meter); |
| A21 | 0.1 - 0.5 m | Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Field pH 6.8 (pH meter); |
| B21t | 0.5 - 1.5 m | Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR44, 2-10% , 15-30mm, Prominent; Sandy light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; Field pH 7.4 (pH meter); |
| B22tk | 1.5 - 1.8 m | Light grey (10YR7/2-Moist); Mottles, 5YR44, 10-20% , 15-30mm, Prominent; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Soil matrix is Slightly calcareous; |

Morphological Notes

Observation Notes

Site Notes

Mallet country.

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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 | 5.5B 6.6H | 8B | 2.06A | 1.46 | 0.63 | 0.38 | | 4J | 4.53D | 9.50 |
| 0.1 - 0.5 | 6B 7H | 6B | 0.85A | 0.92 | 0.14 | 0.27 | | 2J | 2.18D | 13.50 |
| 0.5 - 1.5 | 8.1B 8.9H | 120B | 1.22E | 6.86 | 1.28 | 6.85 | | 16J | 16.21D | 42.81 |
| 1.5 - 1.8 | 4B 4.7H | 110B | 0.23H | 3.99 | 0.52 | 4.37 | 0.38J | | 9.11D | |

| 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 | | 0.84D | | 65B | 0.059E | | | 7.8 |
| 0.1 - 0.5 | | 0.3D | | 14B | 0.012E | | | 2.1 |
| 0.5 - 1.5 | <2C | 0.12D | | 25B | 0.01E | | | 5.1 |
| 1.5 - 1.8 | | 0.1D | | 19B | 0.007E | | | 3.6 |

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_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 |
| 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_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 |

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|------------|---|
| 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) |