

**Project Name:** Jerramungup soils inventory (=JER LRS)  
**Project Code:** JSI **Site ID:** 0367 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

|                        |                      |                   |                         |
|------------------------|----------------------|-------------------|-------------------------|
| <b>Desc. By:</b>       | Tim Overheu          | <b>Locality:</b>  |                         |
| <b>Date Desc.:</b>     | 13/10/93             | <b>Elevation:</b> | 80 metres               |
| <b>Map Ref.:</b>       |                      | <b>Rainfall:</b>  | 500                     |
| <b>Northing/Long.:</b> | 6185000 AMG zone: 50 | <b>Runoff:</b>    | No Data                 |
| <b>Easting/Lat.:</b>   | 650000 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> | Level plain <9m <1% | <b>Pattern Type:</b>   | Sand plain |
| <b>Morph. Type:</b>     | Flat                | <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    |
| N/A                                    |  | <b>Principal Profile Form:</b> | Dy5.82 |
| <b>ASC Confidence:</b>                 |  | <b>Great Soil Group:</b>       | N/A    |
| Confidence level not specified         |  |                                |        |

**Site** No effective disturbance. Natural

#### Vegetation:

**Surface Coarse** 20-50%, medium gravelly, 6-20mm, rounded, Gravel; No surface coarse fragments

#### Profile

|     |             |   |
|-----|-------------|---|
| A1  | 0 - 0.3 m   | Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Water repellent; Field pH 7 (pH meter); Abrupt change to -                                |
| A3  | 0.3 - 1.2 m | Brownish yellow (10YR6/6-Moist); Mottles, 10YR44, 10-20% , 15-30mm, Prominent; Clay loam, sandy; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 7 (pH meter); Abrupt change to - |
| B21 | 1.2 - 1.8 m | Brownish yellow (10YR6/6-Moist); Mottles, 5YR54, 10-20% , 15-30mm, Prominent; Mottles, 10YR72, 10-20% , 15-30mm, Prominent; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 7.1 (pH meter);                   |

#### Morphological Notes

#### Observation Notes

#### Site Notes

Pit 2 on o'mearas. Long walk through pit. Wellstead. Unfortunately the soil is slightly atypical by depth, otherwise this

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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 - 0.3   | 4.8B<br>6.1H | 3B     | 2.01H | 0.49            | 0.07      | 0.06        | 0.19J                |     | 2.63D |     |
| 0.3 - 1.2 | 5.1B<br>6H   | 6B     | 0.6H  | 1.37            | 0.19      | 0.41        | 0.03J                |     | 2.57D |     |
| 1.2 - 1.8 | 4.3B<br>5H   | 15B    | 0.3H  | 2.03            | <0.02     | 0.65        | 0.16J                |     | 2.99D |     |

| 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 - 0.3   |       | 1.28D          |          | 33B     | 0.043E  |         |              | 1.6                    |
| 3.2       |       |                |          |         |         |         |              |                        |
| 0.3 - 1.2 |       | 0.36D          |          | 26B     | 0.02E   |         |              | 4.2                    |
| 17.1      |       |                |          |         |         |         |              |                        |
| 1.2 - 1.8 |       | 0.15D          |          | 28B     | 0.007E  |         |              | 1.6                    |
| 31.7      |       |                |          |         |         |         |              |                        |

**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   |
| 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  |
| 15N1_b     | Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations      |
| 18A1_NR    | Bicarbonate-extractable potassium (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                                   |
| 9B_NR      | Bicarbonate-extractable phosphorus (not recorded)   |
| 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)                                      |

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