

Project Name: Northam (Avon District Agricultural Centre)
Project Code: ADA **Site ID:** 0006 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | | | |
|------------------------|----------------------|-------------------|-------------------------|
| Desc. By: | Ian Fulton | Locality: | |
| Date Desc.: | 05/12/90 | Elevation: | 230 metres |
| Map Ref.: | | Rainfall: | No Data |
| Northing/Long.: | 6506000 AMG zone: 50 | Runoff: | No Data |
| Easting/Lat.: | 543800 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: | Alluvial plain |
| Morph. Type: | No Data | Relief: | 5 metres |
| Elem. Type: | Valley flat | Slope Category: | No Data |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition Hardsetting

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-----|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| N/A | | Principal Profile Form: | N/A |
| ASC Confidence: | | Great Soil Group: | N/A |
| Confidence level not specified | | | |

Site Cultivation. Rainfed

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

| | | |
|----|---------------|---|
| Ap | 0 - 0.15 m | Dark brown (7.5YR3/4-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Field pH 7.5 (pH meter); Clear change to - |
| B1 | 0.15 - 0.32 m | Yellowish red (5YR5/6-Moist); , 0-0% ; Sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Soil matrix is Slightly calcareous; Field pH 8 (pH meter); Clear change to - |
| B2 | 0.32 - 1.04 m | Yellowish red (5YR5/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Common (10 - 20 %), Calcareous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (pH meter); |

Morphological Notes

Observation Notes

Site Notes

Surface very hardsetting Merredin sl - good wheat crop. layer 3 soft lime

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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 | 7.8B | 16B | | | | | | | | |
| | 8.2H | | | | | | | | | |
| 0 - 0.15 | 7.8B | 16B | | | | | | | | |
| | 8.2H | | | | | | | | | |
| 0.15 - 0.32 | 7.6B | 5B | | | | | | | | |
| | 8.2H | | | | | | | | | |

| | | |
|-------------|------|-----|
| 0.15 - 0.32 | 7.6B | 5B |
| | 8.2H | |
| 0.4 - 0.6 | 6.8B | 5B |
| | 8H | |
| 0.4 - 0.6 | 6.8B | 5B |
| | 8H | |
| 0.6 - 0.9 | 8.2B | 10B |
| | 9.1H | |
| 0.6 - 0.9 | 8.2B | 10B |
| | 9.1H | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis | GV | CS | FS | Silt |
|-------------|-------|-----------|----------|---------|---------|---------|--------------|------------------------|----|----|------|------|
| m | % | Clay % | mg/kg | % | % | % | Mg/m3 | | | | % | |
| 0 - 0.15 | | 0.64D | | | | | | | | | 45.4 | 15.9 |
| 14.6 | | | | | | | | | | | | |
| 0 - 0.15 | | 0.64D | | | | | | | | | 45.4 | 15.9 |
| 14.6 | | | | | | | | | | | | |
| 0.15 - 0.32 | | 0.2D | | | | | | | | | 45.1 | 10.8 |
| 13.6 | | | | | | | | | | | | |
| 0.15 - 0.32 | | 0.2D | | | | | | | | | 45.1 | 10.8 |
| 13.6 | | | | | | | | | | | | |
| 0.4 - 0.6 | | 0.2D | | | | | | | | | 37.6 | 9.2 |
| 22.5 | | | | | | | | | | | | |
| 0.4 - 0.6 | | 0.2D | | | | | | | | | 37.6 | 9.2 |
| 22.5 | | | | | | | | | | | | |
| 0.6 - 0.9 | | 0.12D | | | | | | | | | 29.9 | 5.2 |
| 36.5 | | | | | | | | | | | | |
| 0.6 - 0.9 | | 0.12D | | | | | | | | | 29.9 | 5.2 |
| 36.5 | | | | | | | | | | | | |

Laboratory Analyses Completed for this profile

| | |
|------------|---|
| 18_NR | Extractable potassium (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 |
| 9_E_NR | Phosphorus extractable - method 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_gt2m | > 2mm 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 |
| P10_PB_FS | Fine sand (%) - Plummert balance |
| 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) |
| P102002000 | 200 to 2000u particle size analysis, (method not recorded) |

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P10300_600 300 to 600u particle size analysis, (method not recorded)
P106001000 600 to 1000u particle size analysis, (method not recorded)