

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1415 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | | | |
|------------------------|----------------------|-------------------|-------------------------|
| Desc. By: | Rogers, Gary | Locality: | |
| Date Desc.: | 21/02/91 | Elevation: | No Data |
| Map Ref.: | | Rainfall: | No Data |
| Northing/Long.: | 6794719 AMG zone: 50 | Runoff: | No Data |
| Easting/Lat.: | 380627 Datum: AGD84 | Drainage: | Moderately well drained |

Geology

| | | | |
|----------------------|--------------|------------------------------------|---------|
| ExposureType: | Auger boring | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|------------------------------|------------------------|---------|
| Rel/Slope Class: | Undulating rises 9-30m 3-10% | Pattern Type: | Rises |
| Morph. Type: | Crest | Relief: | No Data |
| Elem. Type: | No Data | Slope Category: | No Data |
| Slope: | 2 % | Aspect: | No Data |

Surface Soil Condition Firm

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|--------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Haplic Eutrophic Red Kandosol | | Principal Profile Form: | Gn2.11 |
| ASC Confidence: | | Great Soil Group: | N/A |
| Confidence level not specified | | | |

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, angular,

Profile

| | | |
|-----|---------------|--|
| A1 | 0 - 0.1 m | Dark reddish brown (2.5YR3/4-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 6 (pH meter); Clear change to - |
| B21 | 0.1 - 0.25 m | Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Gradual change to - |
| B22 | 0.25 - 0.45 m | Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 5.5 (pH meter); - m ; |

Morphological Notes

granite

Observation Notes

Site Notes

Red loam over granite, CFs 5-100mm angular qz gn 35% layer 1 many angular pores, FMSL; layers 2-3 angular and round pores all layers sand size FM some grit; 45cm rock decomposed granite

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Observation 1

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 | 5.2B 6.3H 5.1B 6H | 3B 4B | 2.78H 2.8H | 0.6 0.66 | 0.43 0.52 | 0.07 0.09 | <0.02J 0.05J | | 3.88D 4.07D | |
| 0 - 0.1 | 5.2B 6.3H 5.1B 6H | 3B 4B | 2.78H 2.8H | 0.6 0.66 | 0.43 0.52 | 0.07 0.09 | <0.02J 0.05J | | 3.88D 4.07D | |
| 0.1 - 0.25 | 4.3B 5H | 7B | 2.56H | 0.62 | 0.18 | 0.13 | 0.39J | | 3.49D | |
| 0.25 - 0.45 | 4.3B 5H | 6B | 2.31H | 0.89 | 0.09 | 0.14 | 0.42J | | 3.43D | |

| 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 9.2 | | 0.66D 0.61D 9.7 | | | | | | 6.5 6.9 |
| 0 - 0.1 9.2 | | 0.66D 0.61D 9.7 | | | | | | 6.5 6.9 |
| 0.1 - 0.25 16.8 | | 0.65D | | | | | | 7.2 |
| 0.25 - 0.45 18.8 | | 0.43D | | | | | | 7.8 |

Laboratory Analyses Completed for this profile

| | |
|------------|---|
| 15_NR_BSa | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available |
| 15_NR_CMV | 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 |
| 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) |

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