

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1258 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

| | | | |
|------------------------|-----------------------------|-------------------|---------|
| Desc. By: | N.J. McKenzie | Locality: | |
| Date Desc.: | 01/11/88 | Elevation: | No Data |
| Map Ref.: | Sheet No. : 6629-18 1:10000 | Rainfall: | No Data |
| Northing/Long.: | 6216900 AMG zone: 54 | Runoff: | No Data |
| Easting/Lat.: | 289300 Datum: AGD66 | Drainage: | No Data |

Geology

| | | | |
|----------------------|-----------------------|------------------------------------|---------|
| ExposureType: | Undisturbed soil core | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|---------|------------------------|---------|
| Rel/Slope Class: | No Data | Pattern Type: | No Data |
| Morph. Type: | No Data | Relief: | No Data |
| Elem. Type: | No Data | Slope Category: | No Data |
| Slope: | % | Aspect: | No Data |

Surface Soil Condition (dry):

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 Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| | | |
|-----|--------------|---|
| A11 | 0 - 0.1 m | Dark brown (7.5YR3/3-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular tabular, dispersed, Shale, coarse fragments; Field pH 6 (Raupach); Abrupt change to - |
| A12 | 0.1 - 0.2 m | Dark brown (7.5YR3/3-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; 20-50%, cobbly, 60-200mm, subangular tabular, dispersed, Shale, coarse fragments; Field pH 6.5 (Raupach); |
| A12 | 0.2 - 0.25 m | Dark brown (7.5YR3/3-Moist); ; Medium heavy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Very strong consistence; 20-50%, cobbly, 60-200mm, subangular tabular, dispersed, Shale, coarse fragments; Field pH 6.5 (Raupach); Clear change to - |
| B21 | 0.25 - 0.3 m | Yellowish red (5YR3/6-Moist); , 5YR34, 10-20% , 5-15mm, Faint; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7 (Raupach); |
| B21 | 0.3 - 0.4 m | Yellowish red (5YR3/6-Moist); , 5YR34, 10-20% , 5-15mm, Faint; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear change to - |
| B22 | 0.4 - 0.5 m | Yellowish red (5YR4/6-Moist); , 5YR43, 10-20% , 5-15mm, Distinct; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear change to - |
| B3 | 0.5 - 0.7 m | Yellowish red (5YR4/6-Moist); , 5YR43, 20-50% , 5-15mm, Distinct; , 2.5YR32, 20-50% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.5 (Raupach); Diffuse change to - |
| C | 0.7 - 2 m | ; Smooth-ped fabric; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.5 (Raupach); |

Morphological Notes

| | |
|-----|--|
| A11 | Low sorptivity but there must be a well developed microporosity because of the bubbling noise when wetted. Fairly pale A1 and neutral SRT. |
| B21 | The duplex profile has a rough pedal massive B2. |

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B3 The B3 has well developed mangans and a complex dark colouring.

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | Exchangeable | CEC | ECEC | ESP |
|-------|----|--------|----------------------|----|---|--------------|---------|------|-----|
| m | | dS/m | Ca | Mg | K | Na | Acidity | | % |
| | | | | | | Cmol (+)/kg | | | |

0 - 0.1
0.1 - 0.2
0.2 - 0.25
0.25 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 - 2

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Particle | | Size | Analysis | |
|-------|-------|---------|--------|-------|-------|-------|---------|----------|----|------|----------|------|
| | | C | P | P | N | K | Density | GV | CS | FS | Silt | Clay |
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |

0 - 0.1
0.1 - 0.2
0.2 - 0.25
0.25 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 - 2

[illegible]

0 - 0.1
0.1 - 0.2
0.2 - 0.25
0.25 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 - 2

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Laboratory Analyses Completed for this profile