

Project Name: PIN
Project Code: PIN **Site ID:** P241 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|---|
| Desc. By: | W.M. MacArthur | Locality: | On road No. 9824 40 chains east of South Western Highway 380D/40: |
| Date Desc.: | 08/06/55 | Elevation: | 15 metres |
| Map Ref.: | Sheet No. : 2032 1:100000 | Rainfall: | 940 |
| Northing/Long.: | 115.9 | Runoff: | Rapid |
| Easting/Lat.: | -32.75 | Drainage: | Well drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|--|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Unconsolidated material (unidentified) |

Land Form

| | | | |
|-------------------------|-----------------------------------|------------------------|----------------|
| Rel/Slope Class: | Gently undulating plains <9m 1-3% | Pattern Type: | Alluvial plain |
| Morph. Type: | No Data | Relief: | No Data |
| Elem. Type: | No Data | Slope Category: | No Data |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-------------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Mottled Mesotrophic Red Chromosol | | Principal Profile Form: | Dr2.81 |
| ASC Confidence: | | Great Soil Group: | Red podzolic soil |
| All necessary analytical data are available. | | | |

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| | | |
|----|--------------|--|
| A1 | 0 - 0.09 m | Light reddish brown (5YR6/4-Moist); ; Fine sand; Weak grade of structure, Granular; Very weak consistence; Field pH 5 (pH meter); Abrupt, Irregular change to - |
| A2 | 0.09 - 0.3 m | Light brown (7.5YR6/4-Moist); ; Loamy fine sand; Massive grade of structure; Very weak consistence; Field pH 5 (pH meter); Clear, Smooth change to - |
| B1 | 0.3 - 1.04 m | Red (2.5YR4/8-Moist); ; Fine sandy medium clay; Weak grade of structure, Granular; Dry; Very firm consistence; Moderately plastic; Normal plasticity; Field pH 5.5 (pH meter); |
| B2 | 1.04 - 1.9 m | Red (2.5YR4/8-Moist); , 10YR56; Fine sandy medium clay; Weak grade of structure, Granular; Dry; Very firm consistence; Moderately plastic; Normal plasticity; |

Morphological Notes

Observation Notes

SUB-CLOVER AND RYE GRASS PASTURES.

Site Notes

HAMEL

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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 - 0.09 | 6.2A | 0.024A | | | | | | | |
| 0.09 - 0.3 | 6.3A | 0.015A | 1.2B | 0.7 | 0.2 | 0.1 | 2.2D | 4.4B | |
| 0.3 - 1.04 | 6.1A | 0.03A | 2.3B | 2.6 | 0.37 | 0.25 | 4.8D | 10.3B | |
| 1.04 - 1.9 | 6.1A | 0.039A | 1.1B | 4 | 0.47 | 0.19 | 4.4D | 10.2B | |

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Laboratory Analyses Completed for this profile

| | |
|-----------|--|
| 15_NR_H | Hydrogen Cation - meq per 100g of soil - Not recorded |
| 15A2_CA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_K | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_MG | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_NA | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15J_H | Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) |
| 17A1 | Total potassium - X-ray fluorescence |
| 2_LOI | Loss on Ignition (%) |
| 2A1 | Air-dry moisture content |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 5A2 | Chloride - 1:5 soil/water extract, automated colour |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 7_NR | Total nitrogen (%) - Not recorded |
| 9A1 | Total phosphorus - X-ray fluorescence |
| P10_GRAV | Gravel (%) |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_CS | Coarse sand (%) - Not recorded |
| P10_NR_FS | Fine sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |