| Projec | t Code: F | Regional REG Site ID: SIRO Division of Soils (Q | |)bservatio | n ID: | 1 |
|--|---|--|--|--|------------------------------------|---|
| Desc. E Date Do Map Re Northir Easting | esc.: 27/ ef.: Sha ng/Long.: 146 g/Lat.: -18 | G. Cannon 01/84 eet No. : 8161 1:100000 5.134722222222 .4458333333333 | Locality: Elevation: Rainfall: Runoff: Drainage: | 40 metre 2250 Slow Poorly dra | | |
| <u>Geolo</u> Exposı Geol. R | ireType: Un | disturbed soil core ହA | Conf. Sub. is Pare Substrate Materia | | No Dat Uncons | a solidated material (unidentified) |
| <u>Land I</u> Rel/Slo | | ently undulating plains <9m | Pattern Type: | Rises | | |
| - | Type: Fla Sype: Fa 0.5 Se Soil Condi | n 5 % | Relief: Slope Category: Aspect: | No Data Level No Data | | |
| <u>Erosic</u> Soil C | on: lassification | | | | | |
| Austral Eutroph ASC C All nec | iian Soil Class nic Mottled-Mes onfidence: essary analytic | ification: onatric Grey Sodosol al data are available. No effective disturbance. Natur | Princi Great | ing Unit: ipal Profile Soil Group | | N/A Gn3.04 Soloth |
| Vegeta | ation: | | | | | |
| Surfac | | Tall Strata - Tree, 6.01-12m, S agments: No surface coarse | | udes - Melal | euca viri | diflora |
| | | | 0 | | | |
| A1 | 0 - 0.06 m | Dark greyish brown (10YR- Massive grade of structure; medium (2-5mm) roots; Ab | ; Earthy fabric; Mode | rately moist; | | |
| A2cb | 0.06 - 0.1 m | Light brownish grey (10YR Massive grade of structure; medium (2-5mm) roots; | | | | |
| A2cb | 0.1 - 0.15 m | Light brownish grey (10YR Massive grade of structure; medium (2-5mm) roots; Cle | ; Earthy fabric; Mode | rately moist; | | |
| B1sb | 0.15 - 0.2 m | | andy clay loam; Mass 10-20%, fine gravelly | sive grade of , 2-6mm, su | f structu bangula | re; Earthy fabric; Moderately r, dispersed, Quartz, coarse |
| B1sb | 0.2 - 0.3 m | | andy clay loam; Mass 10-20%, fine gravelly | sive grade of , 2-6mm, su | f structu bangula | re; Earthy fabric; Moderately r, dispersed, Quartz, coarse |
| B1sb | 0.3 - 0.6 m | | andy clay loam; Mass 10-20%, fine gravelly Manganiferous, Mec | sive grade of , 2-6mm, su dium (2 -6 m | f structu bangula | re; Earthy fabric; Moderately r, dispersed, Quartz, coarse |
| B21 | 0.6 - 0.9 m | | andy medium clay; M erately moist; Very fin sed, Quartz, coarse fr | oderate grad m consisten ragments; F | de of str ce; 20-5 ew (2 - 1 | 10 %), Manganiferous, |

| Project Name: Project Code: Agency Name: | Regional REG Site ID: T372 Observation ID: 1 CSIRO Division of Soils (QLD) |
|--|---|
| B21 0.9 - 1.1 | Light brownish grey (10YR6/2-Moist); Mottles, 10YR58, 10-20%, 5-15mm, Distinct; Mottles, 10-20%, 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Earthy fabric; Moderately moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10%), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, medium (2-5mm) roots; Clear, Smooth change to - |
| B22 1.1 - 1.2 | Light brownish grey (10YR6/2-Moist); Mottles, 10YR58, 10-20%, 5-15mm, Distinct; Mottles, 10-20%, 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, medium (2-5mm) roots; |
| B22 1.2 - 1.3 | Light brownish grey (10YR6/2-Moist); Mottles, 10YR58, 10-20%, 5-15mm, Distinct; Mottles, 10-20%, 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, medium (2-5mm) roots; Gradual, Irregular change to - |
| 2Bb 1.3 - 1.5 | m Light brownish grey (10YR6/2-Moist); Mottles, 0-0%; Mottles, 0-0%; Medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; |
| 2Bb 1.5 - 1.6 | Light brownish grey (10YR6/2-Moist); Mottles, 0-0%; Mottles, 0-0%; Medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10%), Manganiferous, Medium (2 -6 mm), Soft segregations; Clear, Smooth change to - |
| 1.6 - 1.7 | m Light brownish grey (2.5Y6/2-Moist); Mottles, 0-0%; Mottles, 0-0%; Medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Very strong consistence; Duripan, Moderately cemented, Continuous, Massive; |
| Morphological | Notes |
| Observation No. | <u>otes</u> |

PAN STOPPED PROLINE: Site Notes

| Project Name: | Regional | | | | |
|---------------|------------|-------------------|------|-----------------|---|
| Project Code: | REG | Site ID: | T372 | Observation ID: | 1 |
| Agency Name: | CSIRO Divi | ision of Soils (C | QLD) | | |

Laboratory Test Results:

| Depth | рН | | hangeable Cations Mg K | Exchangeable Na Acidity | CEC | ECEC | ESP |
|--------------------------|--------------|-------------------------|---------------------------|----------------------------|--------------------|------|------------------------|
| m | | dS/m | ing r | Cmol (+)/kg | | | % |
| 0 - 0.06 | 5.6A | 0.046A 0.49H | 0.46 0.1 | 0.05 0.69F | 2.1A 3.9C | 1.8F | 2.38 1.28 |
| 0.06 - 0.1 0.1 - 0.15 | 5.4A 5.4A | 0.027A 0.025A 0.08H | 0.64 0.11 | 0.1 0.65F | 2.3A 2C | 1.6F | 4.35 5.00 |
| 0.15 - 0.2 0.2 - 0.3 | 5.5A 5.5A | 0.024A 0.026A <0.02H | 1.13 0.07 | 0.11 0.7F | 2.3A | 2F | 4.78 |
| 0.3 - 0.6 | 6.1A | 0.02A 0.07H | 1.13 0.05 | 0.17 0.25F | 2.2C 2A 1.9C | 1.7F | 5.00 8.50 |
| 0.6 - 0.9 | 6.2A | 0.036A 0.76H | 3.42 0.04 | 0.82 0.38F | 6.1A 6.5C | 5.4F | 8.95 13.44 12.62 |
| 0.9 - 1.1 1.1 - 1.2 | 6.2A 6A | 0.053A 0.088A 1.58H | 6.53 0.03 | 1.36 0.31F | 5.4A | 9.8F | 25.19 |
| 1.2 - 1.3 1.3 - 1.5 | 6.1A 6A | 0.077A 0.105A 1.6H | 5 <0.02 | 0.61 0.55F | 9C 8.8A | 7.8F | 15.11 6.93 |
| 1.5 - 1.6 1.6 - 1.7 | 6A 6A | 0.124A 0.134A | 5 10.02 | | 11.8C | | 5.17 |
| 1.0 - 1.7 | 07 | 0.1047 | | | | | |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Pa | rticle | Size | Analysis | 5 |
|------------|-------|---------|------------|--------|--------|--------|------------------|----|------------|---------|----------|--------|
| m | % | C % | P mg/kg | P % | N % | K % | Density Mg/m3 | GV | CS | FS % | Silt | Clay |
| 0 - 0.06 | | 1.55C | 2B | 0.003A | 0.05A | 2.16A | | 0 | 29A | 40 | 23 | 8 |
| 0 - 0.08 | | 1.550 | ZD | 0.003A | 0.05A | 2.10A | | 1 | 29A 28A | - | - | o 9 |
| 0.1 - 0.15 | | 0.38C | 4B | | | | | 3 | 26A | | - | 11 |
| 0.15 - 0.2 | | | | | | | | 3 | 23A | 40 | 23 | 14 |
| 0.2 - 0.3 | | 0.13C | | 0.001A | <0.01A | 2.4A | | 5 | 25A | 39 | 23 | 14 |
| 0.3 - 0.6 | | 0.06C | 1.5B | 0.001A | | 2.78A | | 3 | 26A | 41 | 23 | 10 |
| 0.6 - 0.9 | | 0.06C | 1B | | | | | 6 | 24A | 29 | 21 | 26 |
| 0.9 - 1.1 | | | | | | | | 6 | 26A | 29 | 17 | 28 |
| 1.1 - 1.2 | | 0.05C | | | | | | 9 | 15A | 34 | - 21 | 30 |
| 1.2 - 1.3 | | | | | | | | 6 | 17A | 33 | 22 | 28 |
| 1.3 - 1.5 | | 0.07C | | 0.002A | | 2.56A | | 2 | 9A | 35 | 30 | 26 |
| 1.5 - 1.6 | | | | | | | | 1 | 11A | - | - 29 | 26 |
| 1.6 - 1.7 | | | | | | | | 12 | 21A | 33 | 30 | 17 |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | K sat | K unsat | | | |
|-------|------|---------------------------------------|----------|--|-----------------------|------------|---------|--------|------|------|
| m | | Sat. | 0.05 Bar | | 0.5 Bar /g - m3/m3 | 1 Bar 3 | 5 Bar | 15 Bar | mm/h | mm/h |

| 0 - 0.06 |
|------------|
| 0.06 - 0.1 |
| 0.1 - 0.15 |
| 0.15 - 0.2 |
| 0.2 - 0.3 |
| 0.3 - 0.6 |
| 0.6 - 0.9 |
| 0.9 - 1.1 |
| |

| Project Name: Project Code: Agency Name: | Regional REG CSIRO Divisio | Site ID: n of Soils (0 | | |
|--|----------------------------------|---------------------------|--|--|
| 1.1 - 1.2 1.2 - 1.3 | | | | |

Observation ID: 1

1.2 - 1.3 1.3 - 1.5 1.5 - 1.6 1.6 - 1.7

| Project Name: | Regional | | |
|---------------|---------------|----------------|------|
| Project Code: | REG | Site ID: | T372 |
| Agency Name: | CSIRO Divisio | on of Soils (C | QLD) |

Observation ID: 1

Laboratory Analyses Completed for this profile

| 10A1 12_HF_CU 12_HF_FE 12_HF_MN 12_HF_ZN | Total sulfur - X-ray fluorescence Total element - Cu(mg/kg) - HF/HClO4 Digest Total element - Fe(%) - HF/HClO4 Digest Total element - Mn(mg/kg) - HF/HClO4 Digest Total element - Zn(mg/kg) - HF/HClO4 Digest |
|--|---|
| 13C1_FE | Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon |
| 15A2_CEC | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15D1_CEC | CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach |
| 15E1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble |
| 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_NA 15G C | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchange acidity (hydrogen and aluminium) - meg per 100g of soil - By 1M KCl exch. acidity by |
| 136_0 | titration to pH 8.4 |
| 15J1 | Effective CEC |
| 17A1 | Total potassium - X-ray fluorescence |
| 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 |
| 6B3 | Total organic carbon - high frequency induction furnace, infrared |
| 7A2 | Total nitrogen - semimicro Kjeldahl, automated colour |
| 9A1 9G_BSES | Total phosphorus - X-ray fluorescence Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) |
| 9G_BSES 9H1 | Phosphate retention |
| P10_CF_C | Clay (%) - Coventry and Fett pipette method |
| P10_CF_CS | Coarse sand (%) - Coventry and Fett pipette method |
| P10 CF FS | Fine sand (%) - Coventry and Fett pipette method |
| P10_CF_Z | Silt (%) - Coventry and Fett pipette method |
| P10_GRAV | Gravel (%) |
| | |