Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:T538Observation ID:1Agency Name:QLD Department of Primary Industries

| - | • | • | - | | | | | |
|-----------------------|--------------------|------------------------------------------------------|-------------------------|---------------------|-----------------|------------|--------------------------------------------|-----|
| | nformation | | | | | | | |
| Desc. Date D | • | M.G. Cannon 12/12/91 | Locality: Elevation: | | 277 metr | 25 | | |
| Map R | | Sheet No. : 8156 GPS | Rainfall: | | | 53 | | |
| • | | 7721844 AMG zone: 55 | Runoff: | | No Data Slow | | | |
| | g/Lat.: | 404588 Datum: AGD66 | Drainage: | | Imperfect | ly draine | ed | |
| <u>Geolo</u> Expos | ureType: | No Data | Conf. Sub. | is Pare | nt. Mat.: | No Dat | a | |
| Geol. | | Tf | Substrate I | Substrate Material: | | | a | |
| | Form ope Class: | Level plain <9m <1% | Pattern Ty | ne: | Plain | | | |
| | . Type: | Flat | Relief: | | No Data | | | |
| Elem. | | Plain | Slope Cate | egory: | Level | | | |
| Slope: Surfa | | <1 % ndition (dry): Hardsetting | Aspect: | | No Data | | | |
| Erosi | | riaruseung | | | | | | |
| | lassificati | on | | | | | | |
| | | assification: | | Mappi | ng Unit: | | N/A | |
| | | ellow Kandosol Medium Non-gra Moderately deep | velly Clay- | Princi | pal Profile | Form: | Gn2.22 | |
| | Confidence | • • | | Great | Soil Group: | | Yellow earth | |
| | | lytical data are available. | | | | | | |
| | | e: No effective disturbance othe | • • | • | | doo Ar | istida anacias. Llataranagan contartu | |
| yperus | ation: | Low Strata - Tussock grass, | 0.26-0.5m, Spa | irse. Sp | becies inclu | ues - Ai | istida species, Heteropogon contortu | is, |
| | | species Mid Strata - | Tree, 1.01-3m, | Mid-der | nse. *Spec | ies inclu | des - Eucalyptus melanophloia | |
| | | Tall Strata - Tree, 6.01-12m, | Mid-dense. *Sp | pecies in | ncludes - E | ucalyptu | s melanophloia, Eucalyptus polycarp | ba |
| <u>Surfa</u> | ce Coarse | Fragments: No surface coars | | | | | | |
| Profil | e Morphol | ogy | | | | | | |
| A11 | 0 - 0.1 m | Brown (10YR4/3-Moist); ; | | | | | | |
| | | Moderately moist; Very w 0.05); Common, fine (1-2 | | | | | ous, , ; Field pH 6 (Raupach, | |
| B1 | 0.1 - 0.27 | m Yellowish brown (10YR5/ | 8-Moist): : Sand | dv clav l | oam: Mass | ive arad | e of structure: Earthy | |
| 21 | 0.1 0.21 | fabric; Moderately moist; | Very weak cons | sistence | ;, Calcare | ous,,;, | Gypseous, , ; Field pH 5 | |
| | | (Raupach, 0.2); Common | i, fine (1-2mm) i | roots; Di | iffuse, Wav | y chang | e to - | |
| B2 | 0.27 - 0.6 | | | | | | | |
| | | tabric; Dry; Weak consist coarse fragments; Comm | | | | | Inded, dispersed, Quartz, | |
| | | | | | | | ie (1-2mm) roots; Gradual, | |
| D1 | 0.6 - 0.72 | m Light yellowish brown (10 | YR6/4-Moist); ; | Light m | edium clay | ; Massiv | ve grade of structure; Sandy | |
| | | (grains prominent) fabric | ; Dry; Very wea | ak consis | stence; 50- | 90%, fin | e gravelly, 2-6mm, | |
| | | subrounded, dispersed, C | | | | | | |
| | | Abrupt, Wavy change to - | | areous, | , ; , Gypsed | ous, , ; F | ïeld pH 6 (Raupach, 0.65); | |
| D21 | 0.72 - 0.8 | m Light brownish grev (2.5) | 6/2-Moist). Mot | ttles 2.5 | Y68 20-5 | 0% 5-1 | 5mm, Distinct; Mottles, 20- | |
| 021 | 0.72 0.0 | 5 5, (| <i>,</i> · · | | | | ngular blocky; Moderate grade | |
| | | , , , , | 0 | | | | y; Very strong consistence; | |
| | | | | | | | rse fragments; Many (20 - | |
| | | pH 6.5 (Raupach, 0.75); I | | | | | ous, , ; , Gypseous, , ; Field nge to - | |
| D22 | 0.8 - 1 m | | | | | | m, Distinct; Mottles, 2-10% ; | |
| | 0.0 - 1 111 | Medium clay; Strong gra | | | | | | |
| | | structure, 10-20 mm, Sub | angular blocky; | ; Smootł | h-ped fabri | c; Dry; V | 'ery strong consistence; 2- | |
| | | | | | | | fragments; , Manganiferous, | |
| | | Coarse (6 - 20 mm), Cor Few, very fine (0-1mm) ro | | careous, | , , ; , Gypse | eous,,; | Field pH 7.5 (Raupach, 1); | |
| | | | 5013, | | | | | |

Morphological Notes

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Observation Notes

D2 DISPERSES IN WATER./OTHER GROUNDCOVER - CHRYSPOGEN FALLEN(25%)DLR1044; Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: T538 Observation ID: 1 Project Name: Project Code: Agency Name: DLR Site ID: T538 QLD Department of Primary Industries

Laboratory Test Results:

| Depth | рН | 1:5 EC | | changeable | | | Exchangeable | CEC | ECEC | ESP |
|--------------------------|----------------|----------------|---------------|------------|-------------|--------------|-------------------|-------|------|----------------------|
| m | | dS/m | Ca | Mg | К | Na Cmol | Acidity (+)/kg | | | % |
| 0 - 0.1 | 5.95A | 0.03A | 1.3B 0.85J | 1 0.84 | 0.5 0.17 | 0.08 0.04 | | 3.4I | | 2.35 1.18 |
| 0.1 - 0.27 | 5.39A | 0.02A | | | | | | | | |
| 0.27 - 0.6 | 5.92A | 0.01A | 0.77B | 1.4 | 0.38 | 0.15 | | 3.9D | | 3.85 |
| | | | 0.67J | 1.34 | 0.06 | 0.06 | | 3.51 | | 4.29 1.54 1.71 |
| 0.6 - 0.72 0.72 - 0.8 | 7.39A 8.06A | 0.02A 0.07A | | | | | | | | |
| 0.8 - 1 | 8.52A | 0.12A | 2.21J | 6.47 | 0.09 | 1.28 | | 12.2l | | 10.49 |

| Depth m | CaCO3 % | Organic C % | Avail. P mg/kg | Total P % | Total N % | Total K % | Bulk Density Mg/m3 | F GV | Particle CS | Size FS % | Analysi Silt | s Clay |
|--------------------------|------------|-------------------|----------------------|-----------------|-----------------|-----------------|--------------------------|---------|----------------|-----------------|-----------------|-----------|
| 0 - 0.1 0.1 - 0.27 | | 0.7B | | 0.018A | 0.03A | 0.208A | | | 40A | 38 | 8 | 14 |
| 0.27 - 0.6 0.6 - 0.72 | | 0.1B | | 0.013A | 0.01A | 0.184A | | | 42A | 32 | 6 | 20 |
| 0.72 - 0.8 0.8 - 1 | | | | | | | | | 23A | 24 | 8 | 45 |
| Depth | COLE | | Grav | imetric/Vo | lumetric Wate | er Content | S | | Ks | at | K unsa | at |
| | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar 1 | Bar 5 | 5 Bar 15 | Bar | | | | |

mm/h

mm/h

g/g - m3/m3

0 - 0.1 0 - 0.1 0.1 - 0.27 0.27 - 0.6 0.6 - 0.72 0.72 - 0.8 0.8 - 1

m

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Laboratory Analyses Completed for this profile

| 10A1 10B 12A1_CU 12A1_FE 12A1_MN 12A1_ZN 15A2_CA | Total sulfur - X-ray fluorescence Extractable sulfur(mg/kg) - Phosphate extractable sulfur DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron Exchangeable bases (Ca2+,Mg2+,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 15A2_NA | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15D2_CEC | CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor |
| 15F1_CA | Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts |
| 15F1_K | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts |
| 15F1_MG | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts |
| 15F1_NA | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts |
| 15F3 | CEC by 0.01M silver-thiourea (AgTU)+ |
| 15N1 | Exchangeable sodium percentage (ESP) |
| 17A1 | Total potassium - X-ray fluorescence |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 5A1 6B2 | Chloride - 1:5 soil/water extract, potentiometric titration Total organic carbon - high frequency induction furnace, volumetric |
| 7A2 | Total nitrogen - semimicro Kjeldahl, automated colour |
| 9A1 | Total phosphorus - X-ray fluorescence |
| 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 |
| | |