

Proserpine River Main Channel Management Area

MANAGEMENT PRACTICE
CHANGE ADOPTION 2007 - 2013

| Land Use | Management Practices | Key Pollutant | 2007 % Adoption | | | 2014 % Adoption Target | | | 2014 % Adoption Achieved | | | Effort realised | % of target | Draft 2021 % Adoption Target | Cost \$ '000s | |
|---------------------------|----------------------|---------------|-----------------|---|---|------------------------|---|---|--------------------------|---|---|-----------------|-------------|------------------------------|---|---|
| | | | D | C | B | C | B | A | D | C | B | | | | | A |
| Cane & Horticulture | Soil | | D | C | B | C | B | A | D | C | B | A | H | 77 | <i>New management practice</i> | 0 |
| | Nutrient | | D | C | B | C | B | A | D | C | B | A | H | 90 | <i>adoption targets and implementation costs will be</i> | |
| | Pesticide | | D | C | B | C | B | A | D | C | B | A | M | 70 | <i>determined in consultation with</i> | |
| Grazing | Soil | | D | C | B | C | B | A | D | C | B | A | L | 105 | <i>the community and stakeholders</i> | 0 |
| Existing Urban Management | Nutrient | | D | C | B | C | B | A | | | | | tbc | tbc | <i>during the Water Quality Improvement Plan update process</i> | |
| New Urban Development | Soil | | D | C | B | C | B | A | | | | | tbc | tbc | <i>continuing throughout 2014</i> | |

■ Dated practice ■ Common practice ■ Best practice ■ Cutting-edge practice

EVENT WATER QUALITY
LOAD REDUCTION 2007 - 2013

| Key Pollutant | Event Freshwater Quality Values | | | | | Draft Cane & Horticulture Priority | | | Draft Grazing Priority | | | | Cost \$ '000s |
|-------------------------------------|---------------------------------|----------------|-------------|---------------|-------------------|------------------------------------|----------|-----------|------------------------|----------|----------|-----------|---------------|
| | Objective 2050 | Condition 2007 | Target 2014 | Achieved 2014 | Draft Target 2021 | Soil | Nutrient | Pesticide | Soil | Riparian | Nutrient | Pesticide | |
| Dissolved Inorganic Nitrogen µg/L | 300 | 796 | 300 | 570 | 300 | | | | | | | | 0 |
| Filterable Reactive Phosphorus µg/L | 30 | 60 | 45 | 28 | CC | | | | | | | | 0 |
| Particulate Nitrogen µg/L | 340 | 521 | 406 | 302 | 406 | | | | | | | | 0 |
| Particulate Phosphorus µg/L | 70 | 104 | 81 | 60 | 81 | | | | | | | | 0 |
| Total Suspended Sediment mg/L | 194 | 249 | 194 | 146 | 194 | | | | | | | | 0 |
| Ametryn µg/L | CC | <LOD | CC | CC | CC | | | | | | | | 42 |
| Atrazine µg/L | 0.26 | 0.35 | 0.26 | 0.27 | 0.26 | | | | | | | | 42 |
| Diuron µg/L | 1.02 | 1.36 | 1.02 | 1.07 | 1.02 | | | | | | | | 42 |
| Hexazinone µg/L | 0.19 | 0.25 | 0.19 | 0.20 | 0.19 | | | | | | | | 42 |
| Tebuthiuron µg/L | 0.42 | 0.56 | 0.43 | 0.56 | 0.43 | | | | | | | | # |

CC = Current condition; LOD = Limit of Detection which is currently 0.01 µg/L for all herbicides

Tebuthiuron is not a priority due to consistently low levels of detection across the region

ECOSYSTEM HEALTH IMPROVEMENTS 2007 - 2013

| Value rated | System rating (A=excellent, E=poor) | | | | | System repair actions | Draft Priority | Cost \$ '000s |
|-----------------------|-------------------------------------|----------------|-------------|---------------|-------------------|--|----------------|---|
| | Objective 2050 | Condition 2007 | Target 2014 | Achieved 2014 | Draft Target 2021 | | | |
| Flow | C | E | D | E | D | Development and implementation of flow restoration and management strategies and actions | | Costs to implement system repair actions for ecosystem health improvements will be determined after management practice adoption targets have been set. |
| Barriers to Migration | C | E | D | D | C | Removal of barriers to migration | | |
| Instream Habitat | C | E | D | E | D | Restoration and stabilisation of priority reaches | | |
| Riparian Vegetation | B | D | C | D | C | Active restoration and connectivity of priority reaches | | |
| Estuary Modification | B | D | D | D | C | Active restoration to reinstate estuary ecosystem services | | |
| Mangroves & Saltmarsh | A | A | A | A | A | Maintain and protect mangroves and saltmarshes | | |