3 PROGRAM DELIVERY

3.1 Science program staging

The Water Futures project offers a nationally significant research opportunity. The realisation of potential learning from the project requires commitment to scientific research through the life of the project. The "Toowoomba Living Laboratory" concept can provide science with the rigour and duration necessary to establish sound principles and guidelines for indirect potable recycling that can be applied nationally.

The staged program will be tailored to the overall program timetable and include:

- design and options assessment;
- baseline conditions establishment (water quality, environment and community health);
- pilot plant / treatment trials;
- non-potable reuse first applications;
- preliminary (low-percentage) indirect potable recycling applications;
- full implementation;
- operation (including review after several years).

The science program will be aligned to the timetable for delivery of the Water Futures project to the Toowoomba community. This is expected to extend over the next five years. The magnitude of post implementation research will be influenced by research findings through the design and implementation phases, particularly in relation to quantification of ongoing risks and impacts.

A detailed work and resource plan with sequenced science deliverables and milestones will be developed and agreed by Toowoomba City Council and CSIRO upon endorsement of this proposal.

Table 1 shows the alignment between the Science Plan and Toowoomba City Council's proposed Project Plan for the Water Futures water recycling project.