APPENDIX A

National Priority Markets for R&D

- Market gardening (vegetable)
- Viticulture
- Mine-site and landfill rehabilitation
- Fruit & Orchard
- Organic & biodynamic Inputs

APPENDIX B

Priority Areas for Research & Development

RESEARCH PRIORITIES	TOPICS FOR RESEARCH (IN PRIORITY MARKETS)
Optimise and quantify the public environmental benefits (services) associated with use of specific recycled organic products	• Quantify off-farm benefits to environment and community • Quantify the effect of recycled organic products on soil carbon • Develop production, transport and application techniques to maximise environmental and community benefits
Optimise and quantify the direct economic value (Cost-Benefit-Analysis) of using specific RO products	• Develop and disseminate a standard methodology for application of CBA technique • Quantify irrigation water savings • Quantify N&P mineralisation/nutrient contributions over time • Quantify the ability of high nutrient level compost blends in agriculture to reduce inorganic fertiliser use • Quantify benefits relative to competing (established) products • Scope and develop a field trial protocol (standard methodology)
Develop transport and application techniques designed to meet identified end-user needs	• Define end user issues and needs • Quantify minimum effective application rates to obtain target benefits • Quantify performance longevity – how long do application benefits last • Develop techniques to increase density of product prior to transport while maintaining benefits and facilitating application
Develop guidance for end-users (growers) on the integration of RO products into their (farm) management systems	• Assess risks associated with RO products (pathogens, odour, nutrients, phosphorus etc) • Quantify the ability of RO products to deal with common problems such as salinity, sodicity, plant disease and low organic matter in soils • Develop techniques for using RO products to suppress plant disease • Quantify benefits of soil-structure improvement • Determine the preferred application timing (to optimise benefit and minimise risk)
Develop quality assessment and Improve product standards and testing techniques	• Develop and interpret a standardised maturity index for use in the Australian context • Develop testing techniques and standards for determining the biological properties of recycled organic products • Expand and interpret tests that assist in the design and use of application specific products