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# Christmas Island Waste Management System – Phase 2 Final Report 2011

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Energy, Murdoch University in partial fulfillment of  
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Environmental Engineering

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## **Abstract**

The Shire of Christmas Island have been in need of an applicable waste management strategy which would reduce the volume of waste entering the landfill and adhere to current environmental legislations. RAUM int. and Murdoch University were appointed to produce a complete waste management strategy. This was completed and produced in the form of a Phase 1 report. This was then submitted to the Shire of Christmas Island, who then reviewed it and decided to proceed onto Phase 2 of the project that was funded by the Federal Government, Australia. This funding will be used to remediate the existing landfill and to begin construction of the facilities. Further funding will have to be applied for during the next financial year to be able to complete the tip site.

Phase 2 of the project involved the development of an overall site plan of the Christmas Island Tip Site as well as the basic construction of structure within the tip site. The site plan would detail the locations, areas and requirements of each of the waste treatment technologies chosen. Phase 2 of the project began by first identifying the facilities which would be within the tip site. The footprints, utility requirements and volume reduction potential were then calculated and consolidated into five tables. These tables were brought to the Shire, along with a draft site layout, where discussions resulted in the alteration of certain facilities and the position of the landfill site.

The finalized set of tables and site layout was then produced in accordance with the constraints, which the shire provided. A total of twenty facilities have been planned to be in the tip site, however the Shire will have the final decision if they chose to proceed with all twenty facilities, a list of which can be found in Table 3.

## **Disclaimer**

I declare the following to be my own work, unless otherwise referenced, as defined by the University's policy on plagiarism.

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