

RAINWATER MANAGEMENT

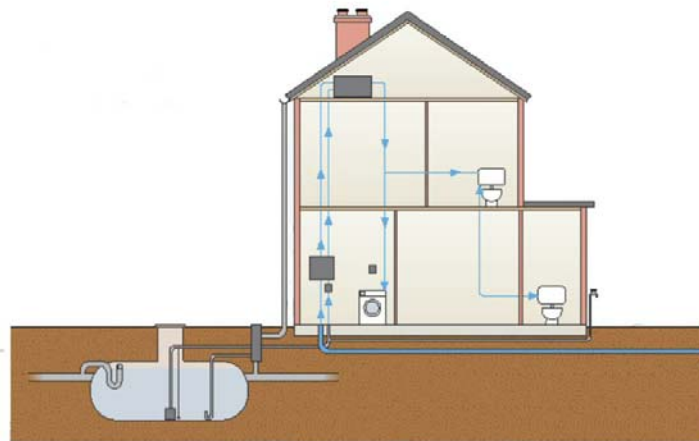
RAINWATER MANAGEMENT SYSTEMS

QUESTION: When you consider the amount of rainwater that falls upon a given development site over the period of 1 year, *what happens to it?*

ANSWER: Roof and hard standing water is quickly collected into the underground drainage system and disposed off site into the main surface water sewer, watercourse or soakaway.

PROBLEM: All of the developments in the surrounding areas are disposing of their water at the same time, which overloads the system. Also, none of this collected rainwater is destined for re-use thereby wasting a precious natural resource as well as money.

SOLUTION: Rainwater management can overcome many of the problems encountered by reducing the amount of surface water disposal from sites and reducing the need for expensively treated mains water for non potable uses such as toilet flushing, washing machines and external irrigation.



ABOVE IS A SIMPLE ILLUSTRATION OF HOW THE RAINWATER HARVESTING SYSTEM WORKS



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SAVINGS: In a **domestic** application, up to **55%** of the total water requirements can be serviced by rainwater including toilet flushing, washing machines, not forgetting that rainwater is naturally a “soft” water and can therefore substantially reduce the amount of detergents required. External uses such as car washing and garden watering can also be catered for.

CASE STUDY: A typical 4 bedroom detached house has recently been built with a direct rainwater harvesting system feeding the 3 WC’s, washing machine and external tap for car washing and garden irrigation. The **pay back period** is projected at less than **3 years** against the cost of installation. After that, ongoing savings will be made.

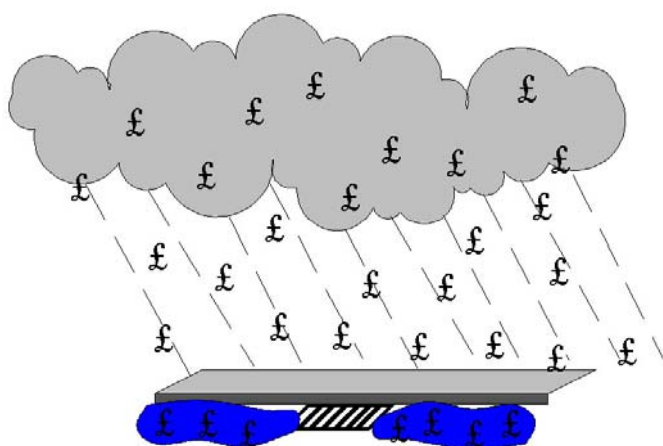
SAVINGS: In a **commercial** application, up to **85%** of the total water requirements can be serviced by rainwater including office buildings, factories, schools and hotels. All have a high demand for toilet and urinal flushing and other uses such as wash down areas and industrial processing.

CASE STUDY: A large, well known, dairy company has recently had a rainwater harvesting system installed on a new plant. The rainwater from the main building was directed to several large underground storage tanks and re-used back in the building for wash down purposes. The savings against the cost of using mains water has resulted in a **pay back period** of less than **1 year**, against the cost of installation.

Rainwater management can help in obtaining planning permission on sensitive development sites where planning authorities may be looking for innovative elements to be incorporated in the building. Some developments are receiving planning permission with restrictions on the rate of surface water disposal from site, which can also be helped by the installation of a good management system.

CRB SERVICES & ASSOCIATES can provide the complete solution for rainwater management problems:

- **Site survey to establish requirements.**
- **Design of tailored system to maximise use and savings.**
- **Supply and installation of complete underground system.**
- **Commissioning of internal plumbing and electrical installation.**



**FAILURE TO HARVEST
RAINWATER IS MONEY
DOWN THE DRAIN**

Contact the office for data sheets on the other services we Provide:

- | | |
|---------------------------|----------------------------------|
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