

1/2 **my dirty laundry**

Innovative WasteWater Technology: an on-site solution

Starting at the bottom is a waterproof membrane (not unlike a rubberized liner for a pond)

Next layer is sand or pea gravel that allows drainage, when necessary

Next comes a layer of growing media (dirt, compost, sand, and coarse wood chips- a mixture of textures and sizes helps filtration)

Note that the subsurface irrigation tubing goes in this layer of growing media about 10cm deep

**Solution**

Just one 'Red Lion Inn' uses approximately 26 million gallons of water per year" in their laundry facilities. Hotels and Hospitals wash towels and linens all day long to keep up with demand. Imagine the amount of sheets and towels being washed daily by chains across the globe. By using a combination of rather simple permaculture practices, the used laundry water can serve dual purposes, washing laundry and irrigation.

Rather than wasting water when irrigating, the decorative plants in courtyards and on green roofs, this design would use recycled greywater to irrigate the plants. Subsurface irrigation tubing and distribution system designed for use with wastewater delivers the water to the roots of the nutrient-hungry plants. The roots and sandy

soil would filter out impurities as the trees and plants grew strong.

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Creative's profile



**AnnaNuthaThang** PRO  
Graphic Designer

Creative's top 5 skills

Graphic Design, Photography, Product Design, User Experience,  
Communication Concept

Collaborators



**gizmotech**  
Gearhead